

Final Report

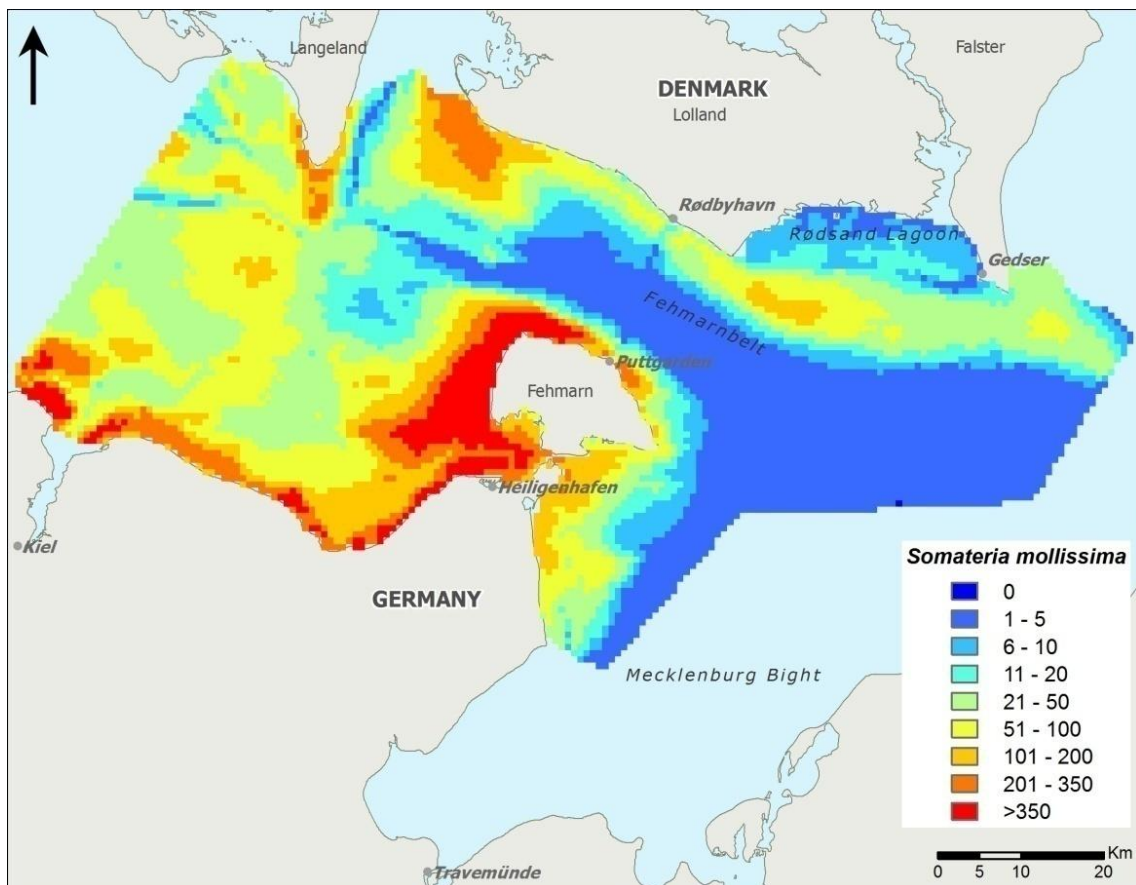
**FEHMARNBELT FIXED LINK
BIRD SERVICES (FEBI)**

Bird Investigations in Fehmarnbelt - Baseline

Waterbirds in Fehmarnbelt

E3TR0011 Volume II – Appendix II, Part III

Maps of ship-based surveys in 2008/2009



Responsible editor:

FEBI consortium / co DHI
Agern Allé 5
DK-2970 Hørsholm
Denmark

FEBI Project Director: Anders Malmgren Hansen, DHI
www.dhigroup.com

Please cite as:

FEBI (2013). Fehmarnbelt Fixed Link EIA.
Bird Investigations in Fehmarnbelt – Baseline.
Volume II. Waterbirds in Fehmarnbelt.
Report No. E3TR0011
Appendix II, Part III: Maps of ship-based surveys in 2008/2009.

Appendix: 68 pages

(Main Report: ISBN 978-87-92416-51-3)

May 2013

ISBN 978-87-92416-79-7

Maps:

Unless otherwise stated:

DDO Orthofoto: DDO®, copyright COWI

Geodatastyrelsen (formerly Kort- og Matrikelstyrelsen), Kort10 and 25 Matrikelkort

GEUS (De Nationale Geologiske Undersøgelser for Danmark og Grønland)

HELCOM (Helsinki Commission – Baltic Marine Environment Protection Commission)

Landesamt für Vermessung und Geoinformation Schleswig-Holstein (formerly

Landesvermessungsamt Schleswig-Holstein) GeoBasis-DE/LVermGeo SH

© Femern A/S 2013

All rights reserved.

The sole responsibility of this publication lies with the author. The European Union is not responsible for any use that may be made of the information contained therein.



CONTENTS

1 APPENDIX II - WATERBIRDS IN THE FEHMARNBELT – MAPS 1

1.1 Ship-based Surveys in 2008/2009 1

1.1.1 Red-throated Diver / Black-throated Diver / Unidentified Divers – *Gavia stellata* /
Gavia arctica / *Gavia* sp..... 1

1.1.2 Great Crested Grebe / Red-necked Grebe / unidentified Grebes – *Podiceps cristatus*
/ *Podiceps grisegna* / *Podiceps* sp. 6

1.1.3 Great Cormorant / Velvet Scoter – *Phalacrocorax carbo* / *Melanitta fusca*12

1.1.4 Common Eider – *Somateria mollissima*20

1.1.5 Long-tailed Duck – *Clangula hyemalis*28

1.1.6 Common Scoter – *Melanitta nigra*33

1.1.7 Red-breasted Merganser / Goosander – *Mergus serrator* / *Mergus merganser*39

1.1.8 Little Gull – *Larus minutus*44

1.1.9 Black-headed Gull / Common Gull – *Larus ridibundus* / *Larus canus*46

1.1.10 Sandwich Tern / Common Tern / Arctic Tern – *Sterna sandvicensis* / *Sterna hirundo*
/ *Sterna paradisaea*62

1.1.11 Guillemot/ Razorbill/ Black Guillemot – *Uria aalge* / *Alca torda* / *Cephus grille*64

List of figures is included as the final pages

FEHMARNBELT BIRDS

Note to the reader:

In this report the time for start of construction is artificially set to 1 October 2014 for the tunnel and 1 January 2015 for the bridge alternative. In the Danish EIA (VVM) and the German EIA (UVS/LBP) absolute year references are not used. Instead the time references are relative to start of construction works. In the VVM the same time reference is used for tunnel and bridge, i.e. year 0 corresponds to 2014/start of tunnel construction; year 1 corresponds to 2015/start of bridge construction etc. In the UVS/LBP individual time references are used for tunnel and bridge, i.e. for tunnel construction year 1 is equivalent to 2014 (construction starts 1 October in year 1) and for bridge construction year 1 is equivalent to 2015 (construction starts 1st January).

1 APPENDIX II - WATERBIRDS IN THE FEHMARNBELT – MAPS

1.1 Ship-based Surveys in 2008/2009

1.1.1 Red-throated Diver / Black-throated Diver / Unidentified Divers – *Gavia stellata* / *Gavia arctica* / *Gavia* sp.

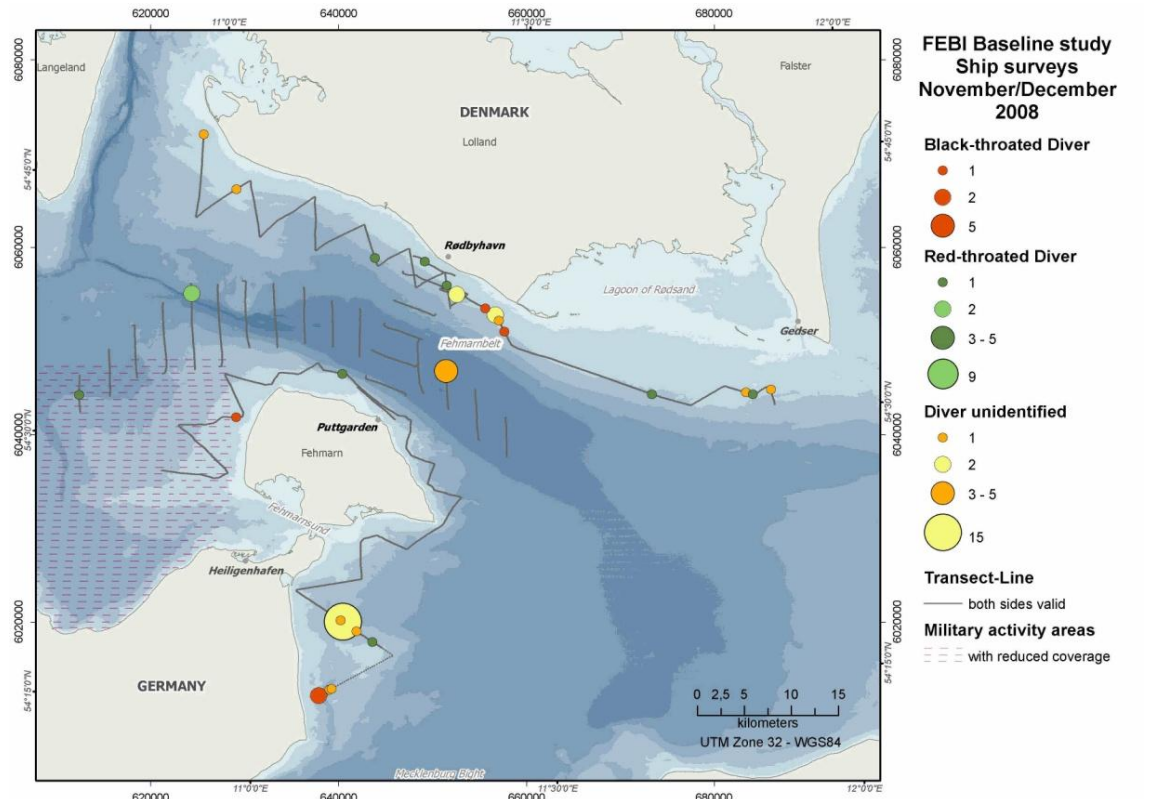


Figure 1.1 Diver distribution in the study area during ship-based surveys (November/December 2008).

FEHMARNBELT BIRDS

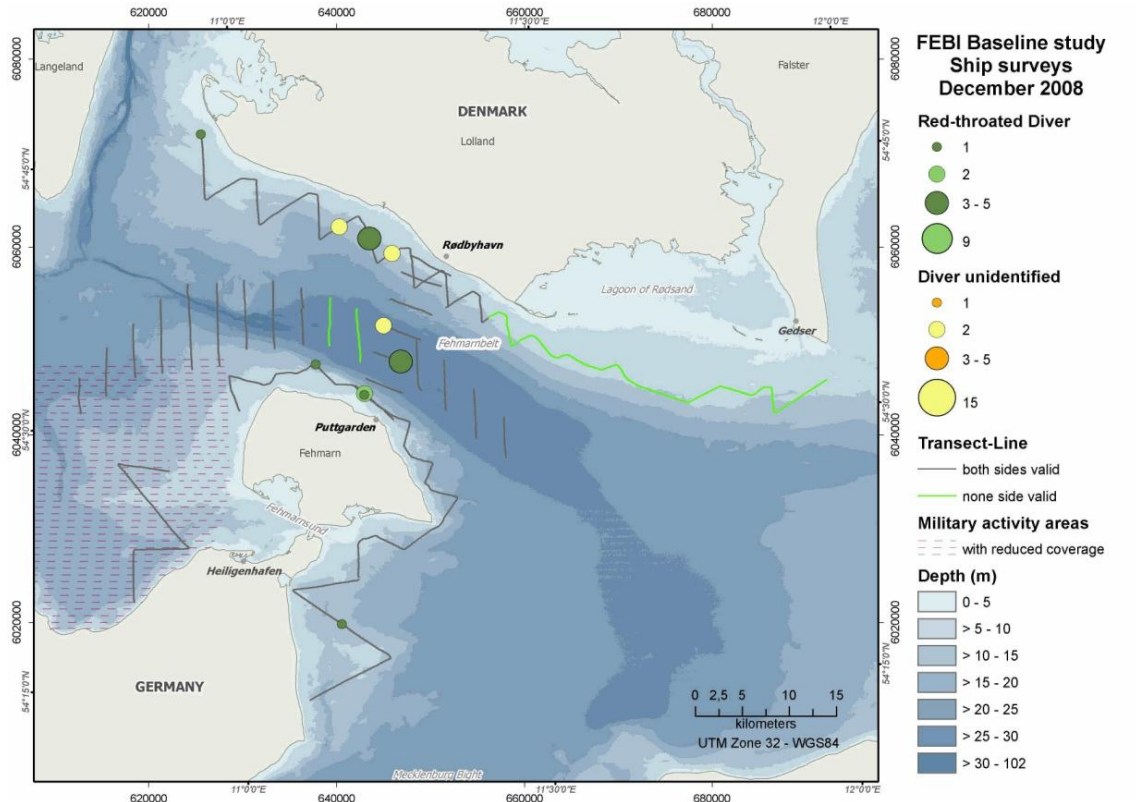


Figure 1.2 Diver distribution in the study area during ship-based surveys (December 2008).

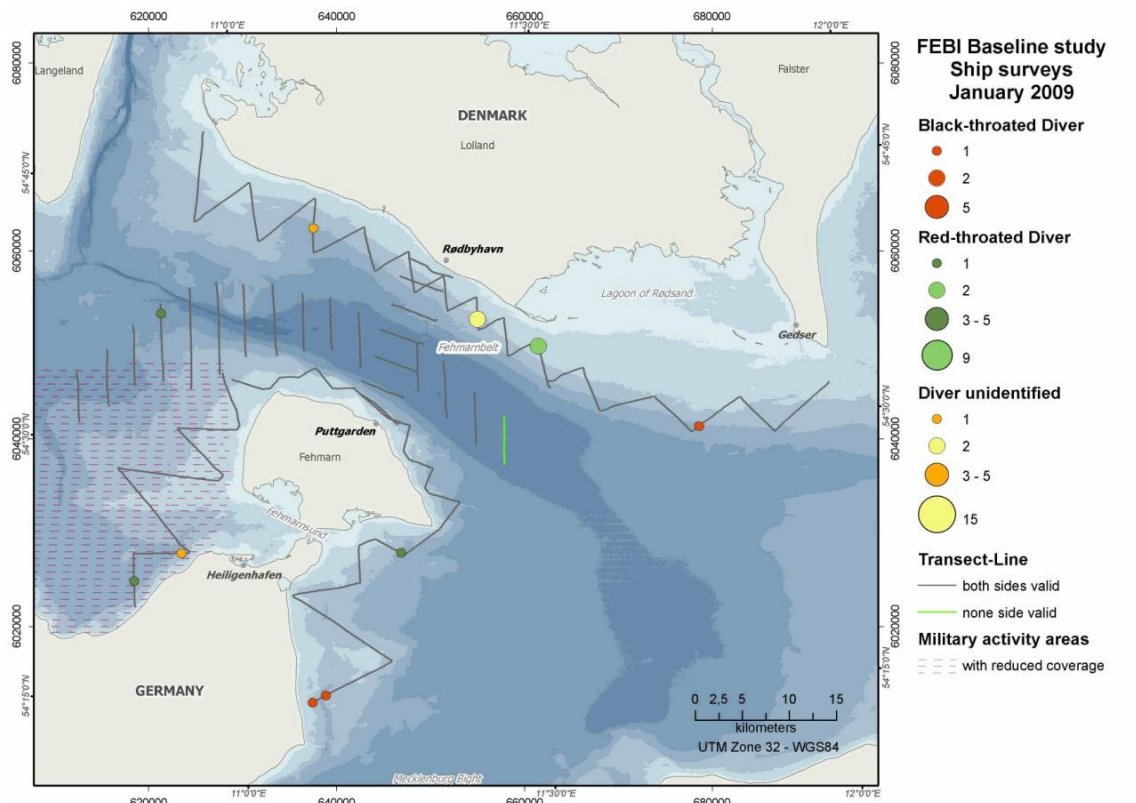


Figure 1.3 Diver distribution in the study area during ship-based surveys (January 2009).

FEHMARNBELT BIRDS

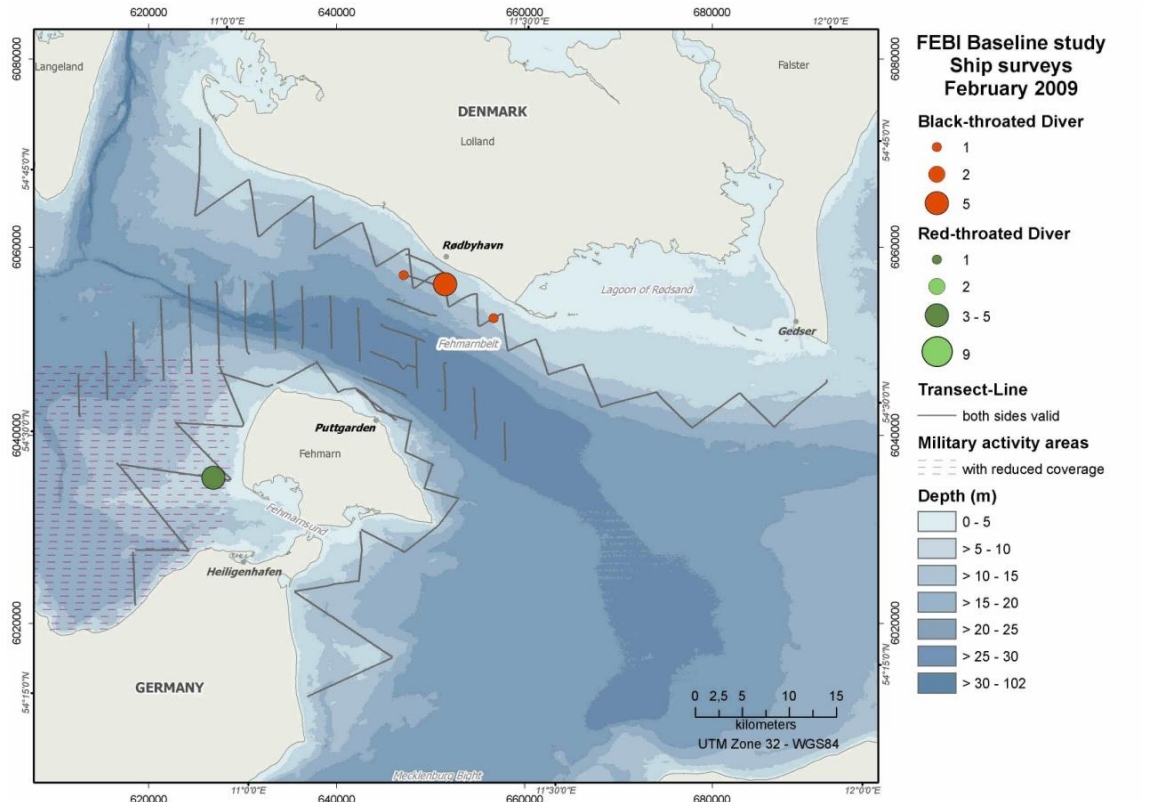


Figure 1.4 Diver distribution in the study area during ship-based surveys (February 2009).

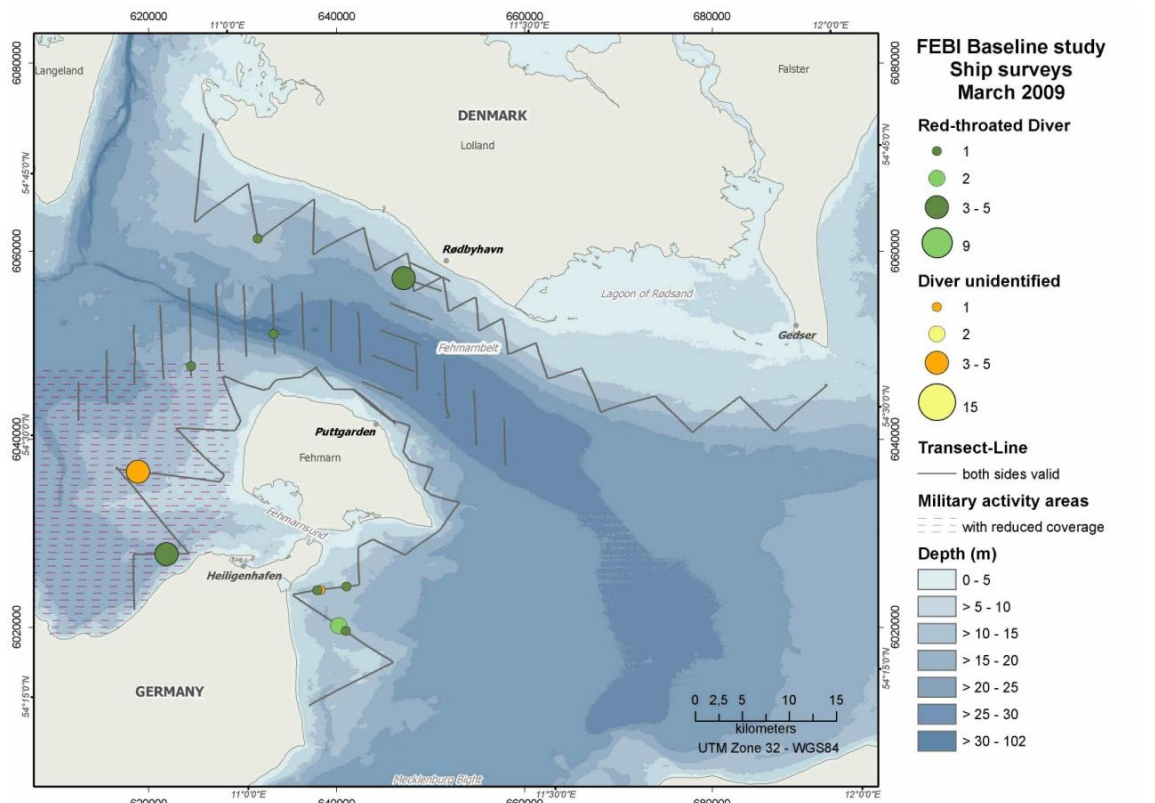


Figure 1.5 Diver distribution in the study area during ship-based surveys (March 2009).

FEHMARNBELT BIRDS

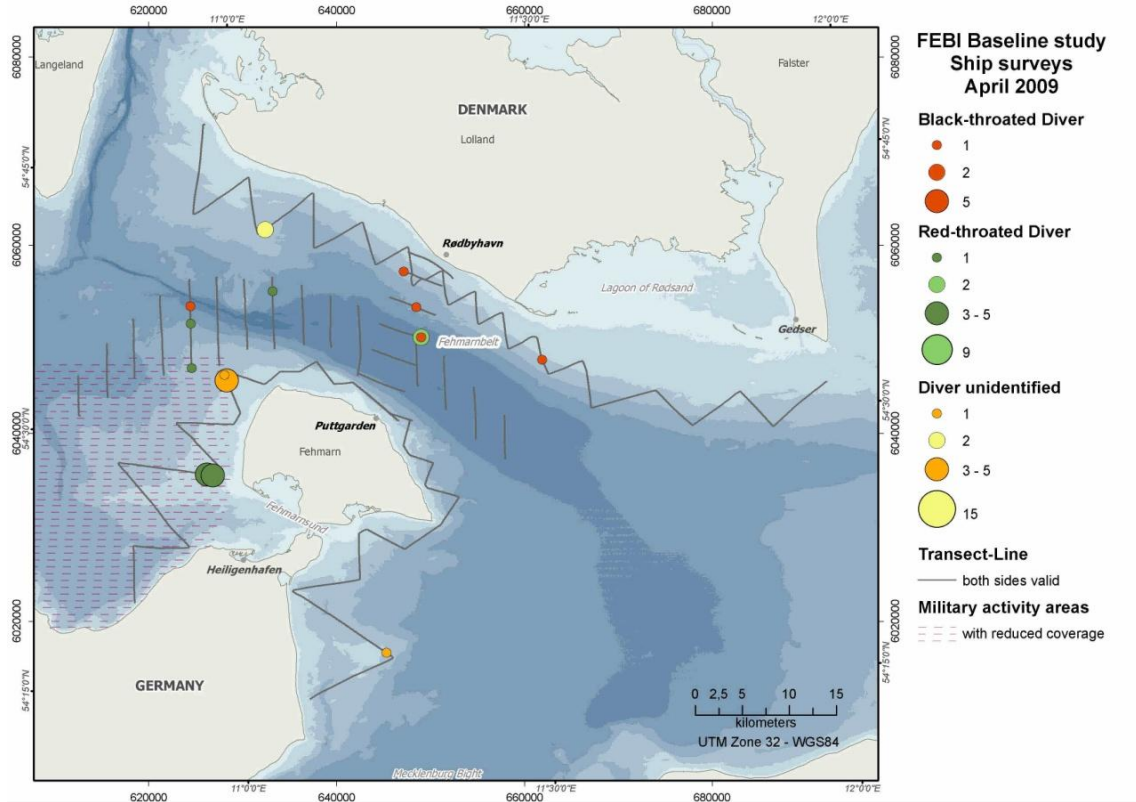


Figure 1.6 Diver distribution in the study area during ship-based surveys (April 2009).

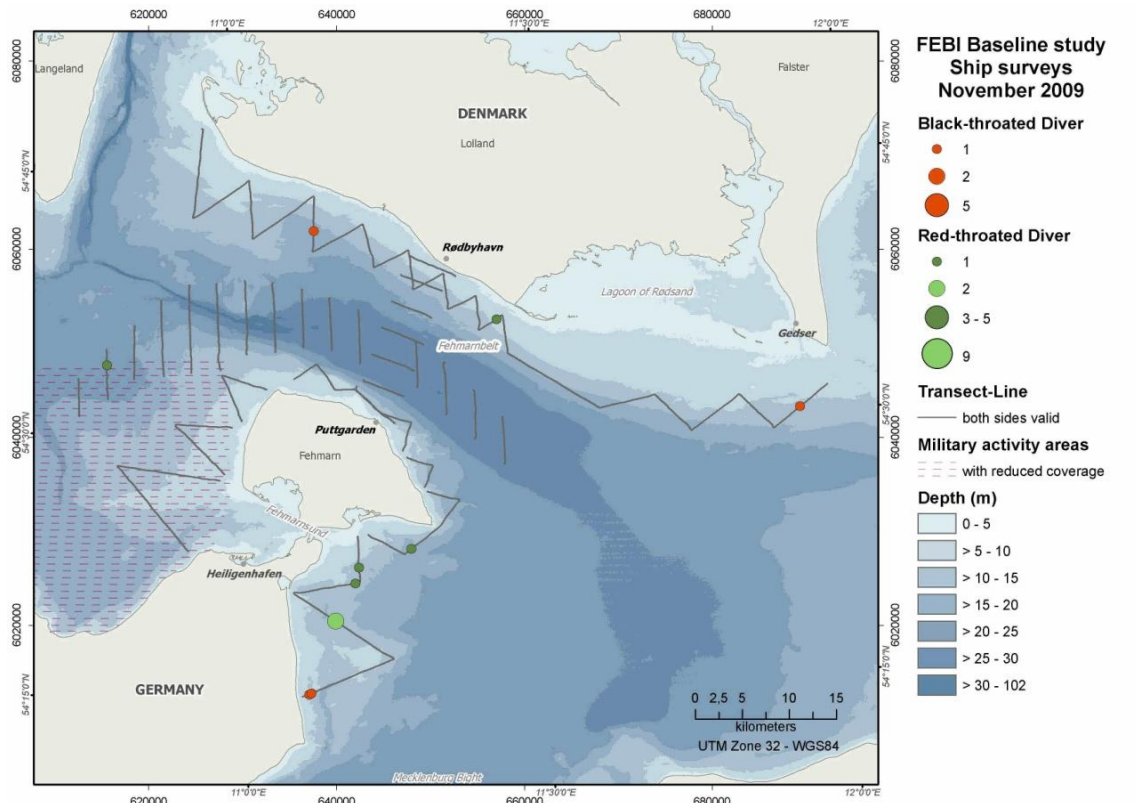


Figure 1.7 Diver distribution in the study area during ship-based surveys (November 2009).

FEHMARNBELT BIRDS

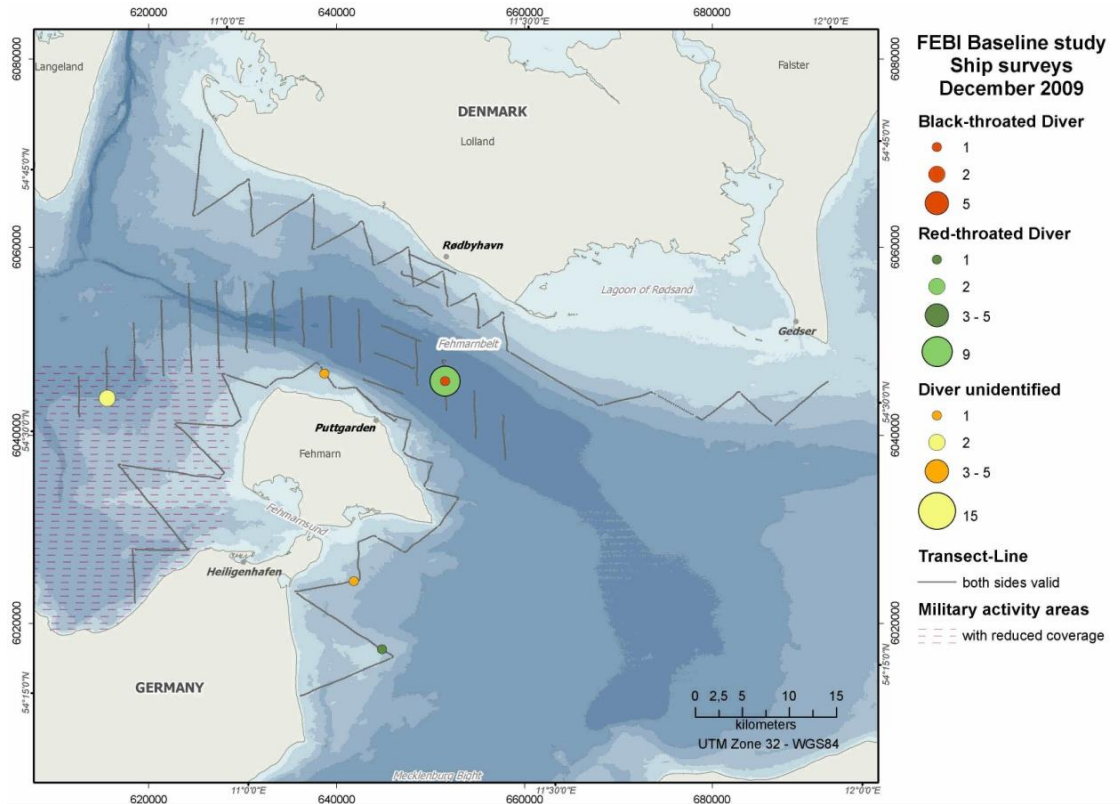


Figure 1.8 Diver distribution in the study area during ship-based surveys (December 2009).

1.1.2 **Great Crested Grebe / Red-necked Grebe / unidentified Grebes – Podiceps cristatus / Podiceps grisegna / Podiceps sp.**

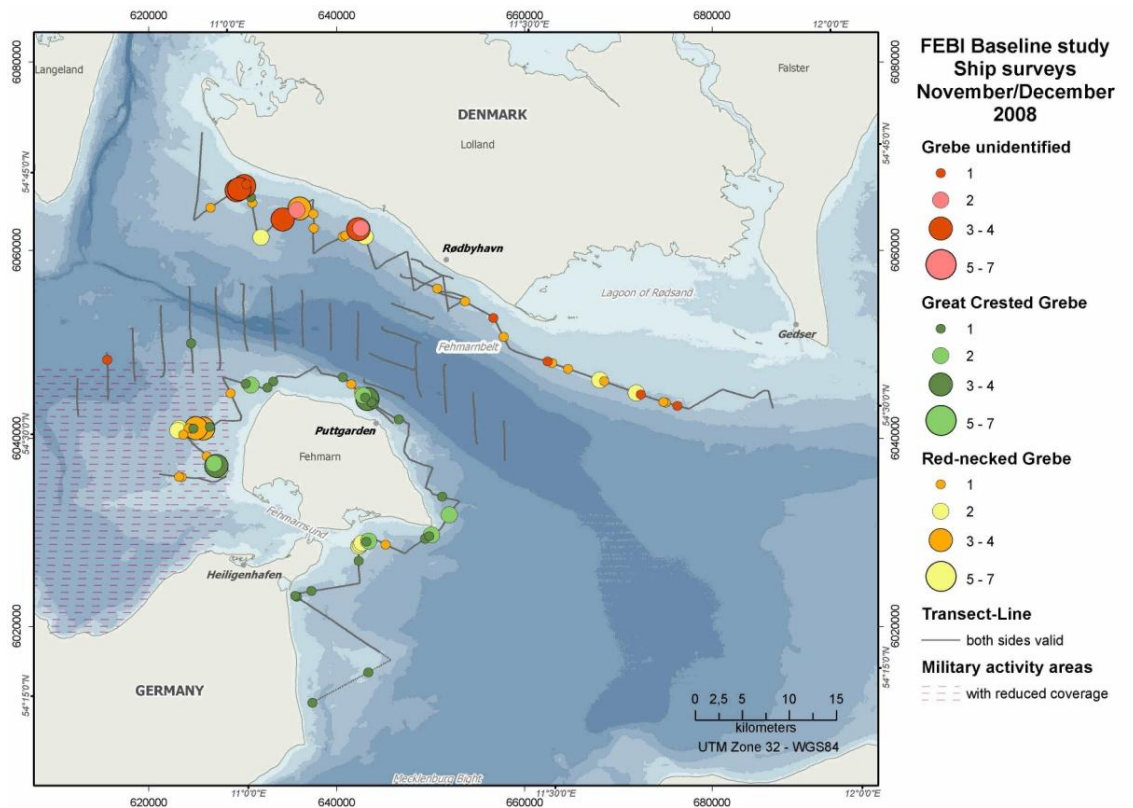


Figure 1.9 Grebe distribution in the study area during ship-based surveys (November/December 2008).

FEHMARNBELT BIRDS

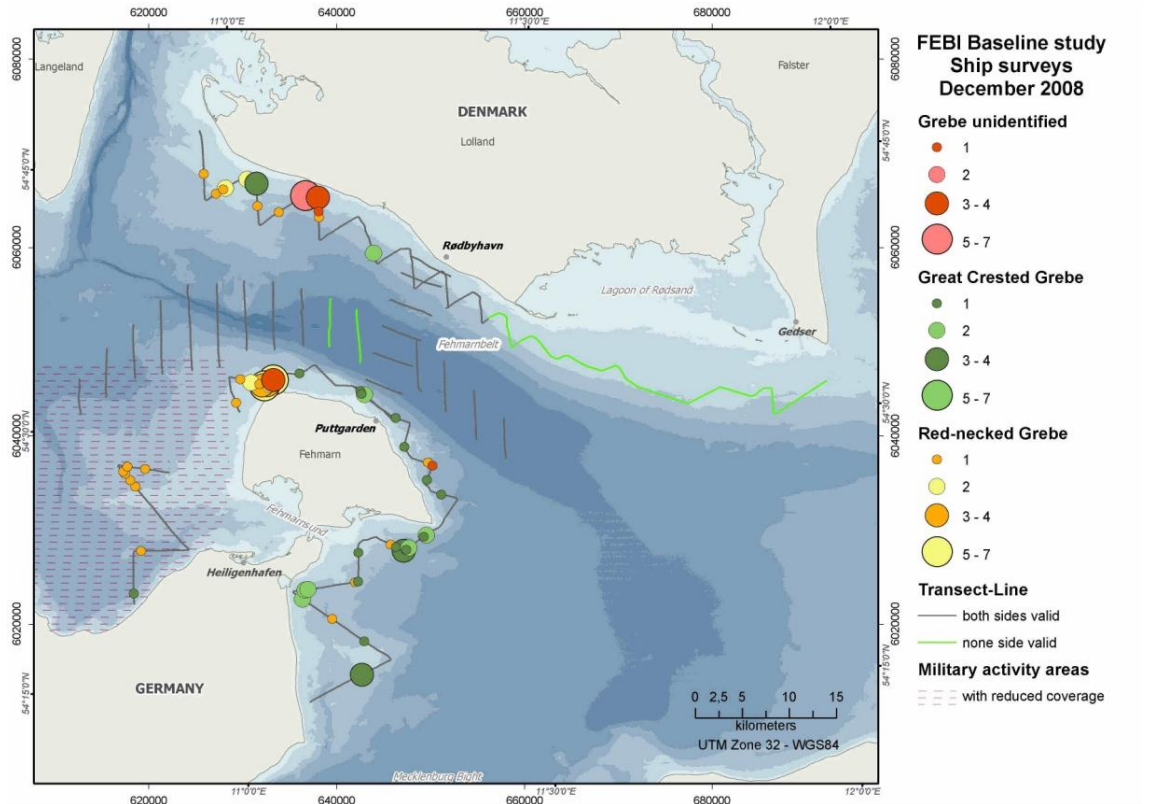


Figure 1.10 Grebe distribution in the study area during ship-based surveys (December 2008).

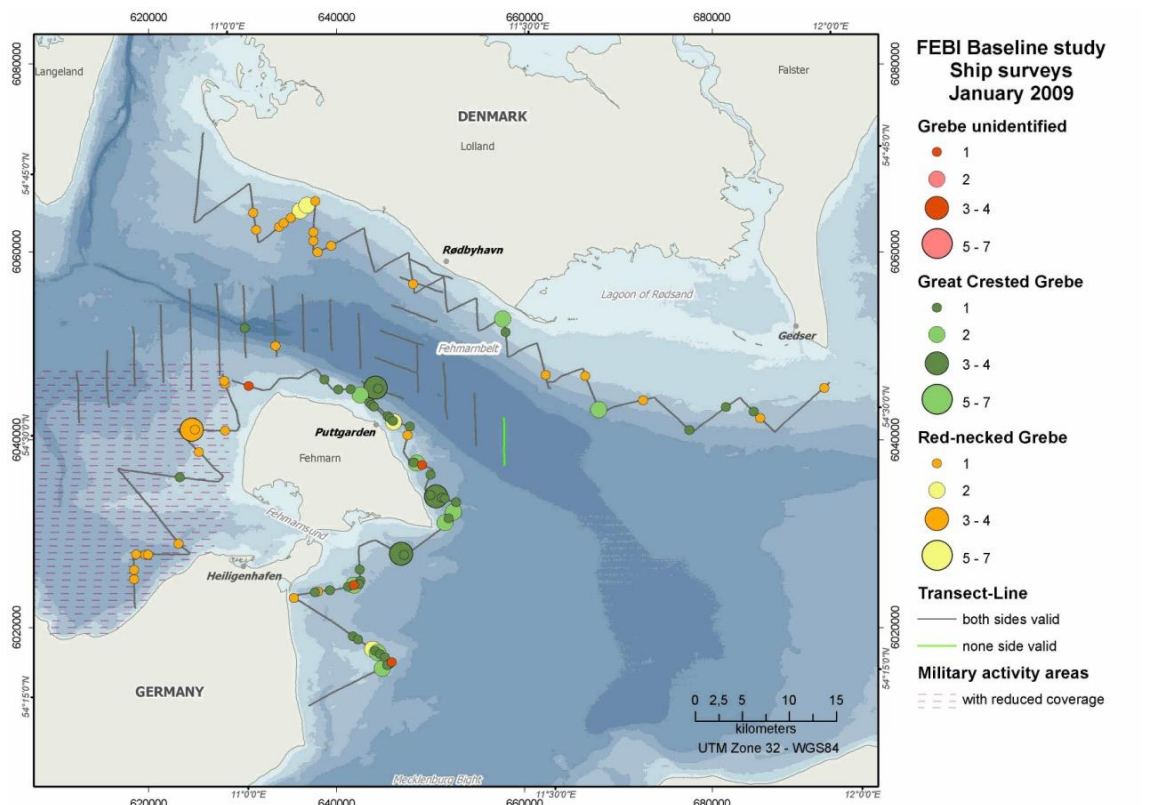


Figure 1.11 Grebe distribution in the study area during ship-based surveys (January 2009).

FEHMARNBELT BIRDS

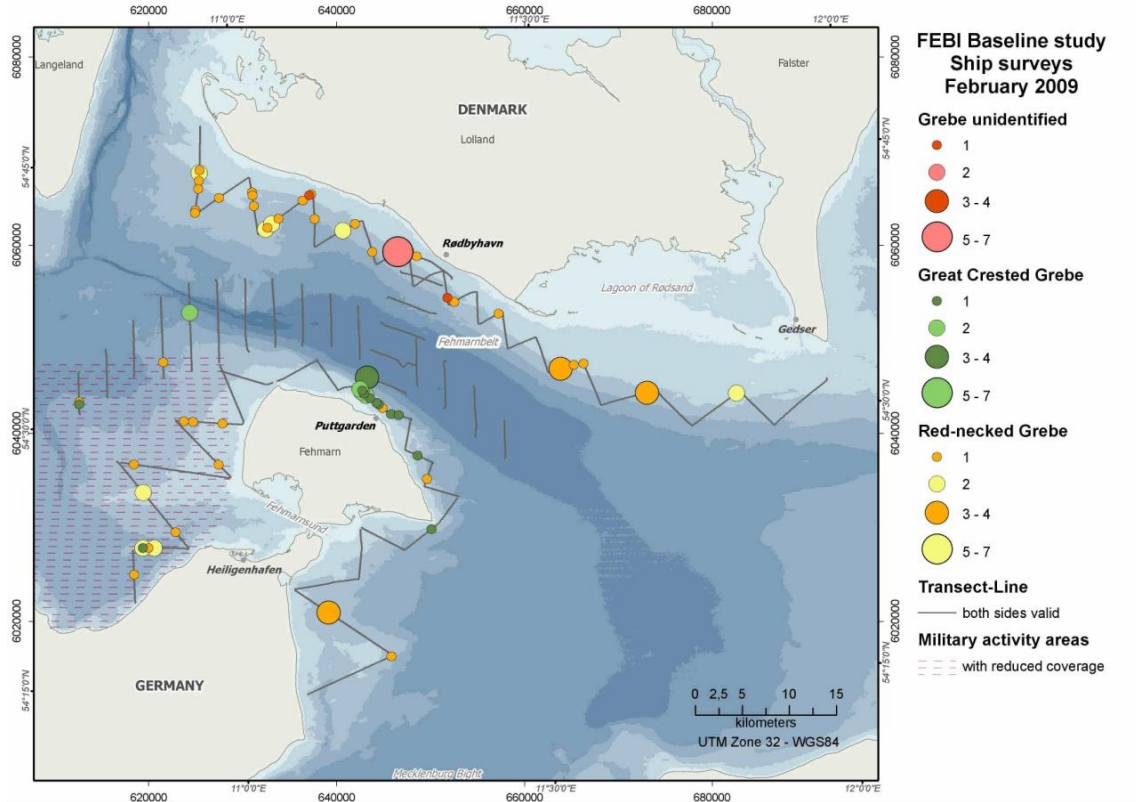


Figure 1.12 Grebe distribution in the study area during ship-based surveys (February 2009).

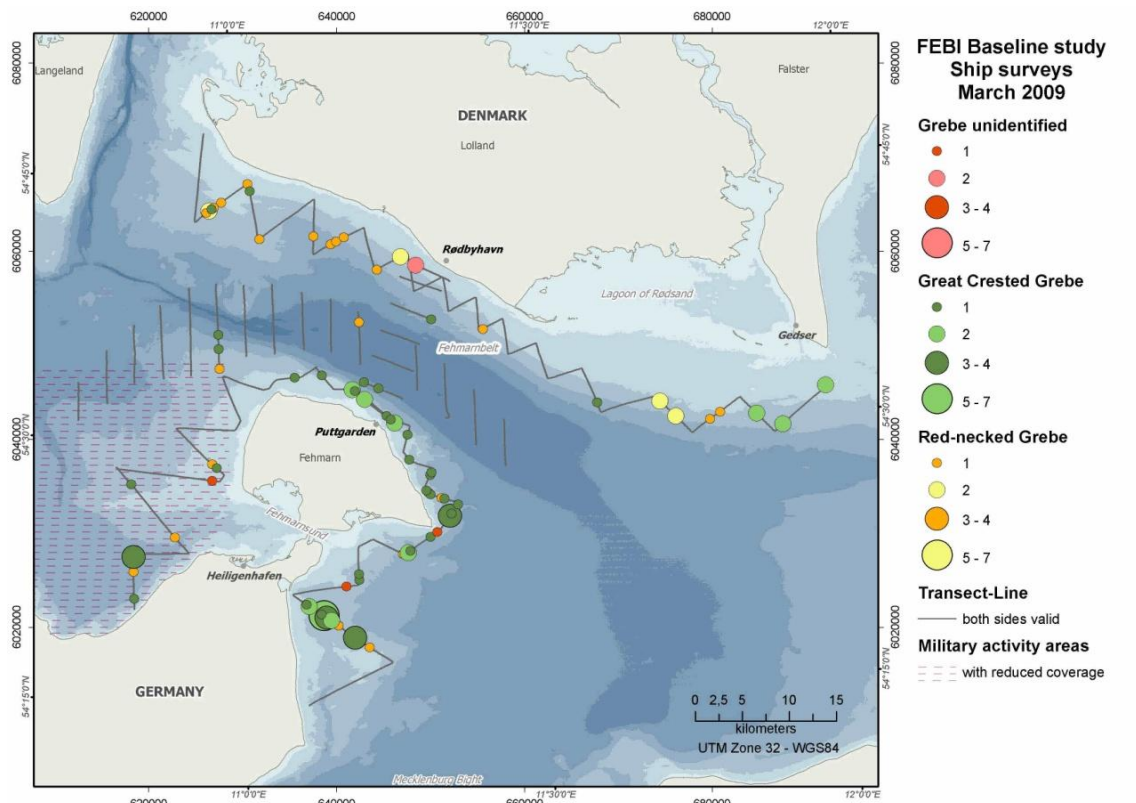


Figure 1.13 Grebe distribution in the study area during ship-based surveys (March 2009).

FEHMARNBELT BIRDS

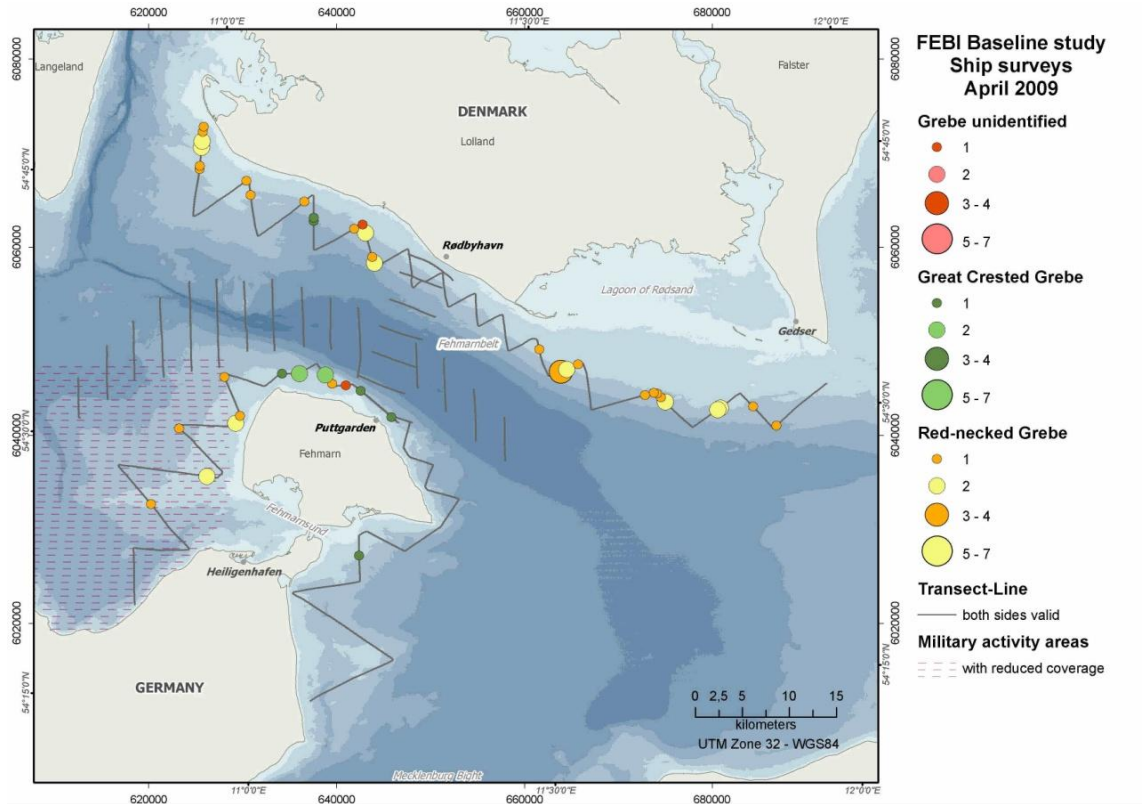


Figure 1.14 Grebe distribution in the study area during ship-based surveys (April 2009).

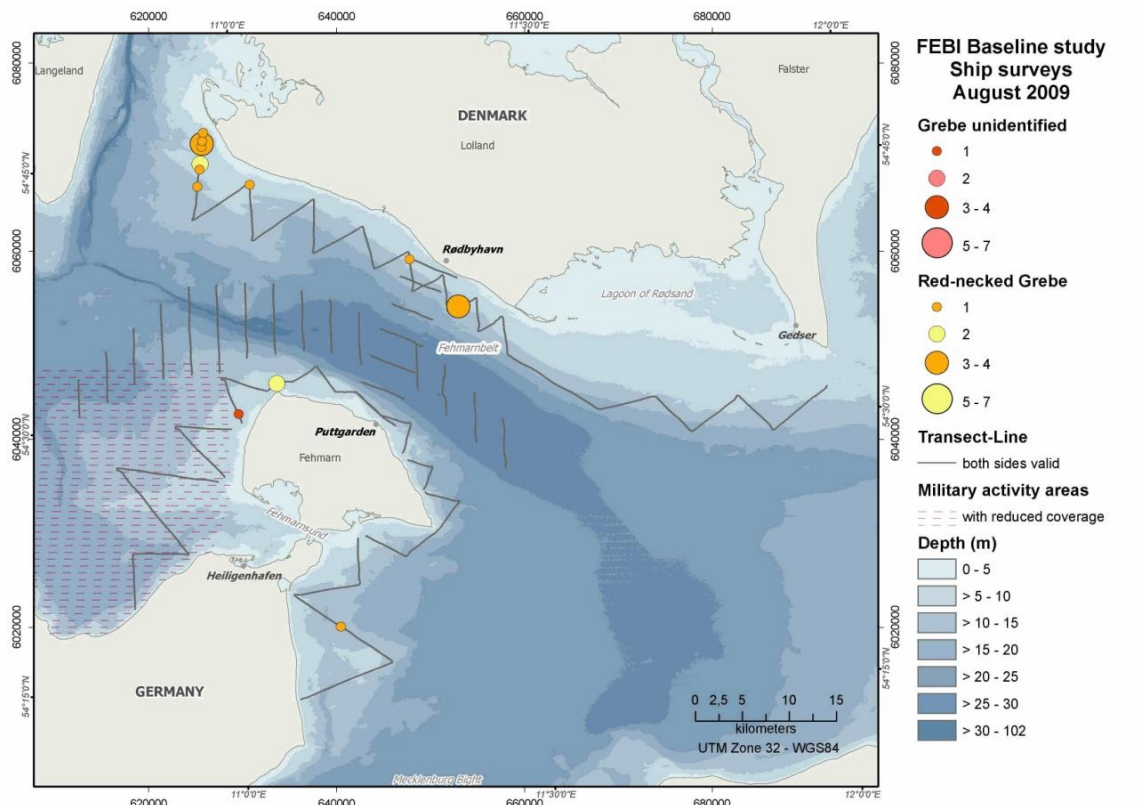


Figure 1.15 Grebe distribution in the study area during ship-based surveys (August 2009).

FEHMARNBELT BIRDS

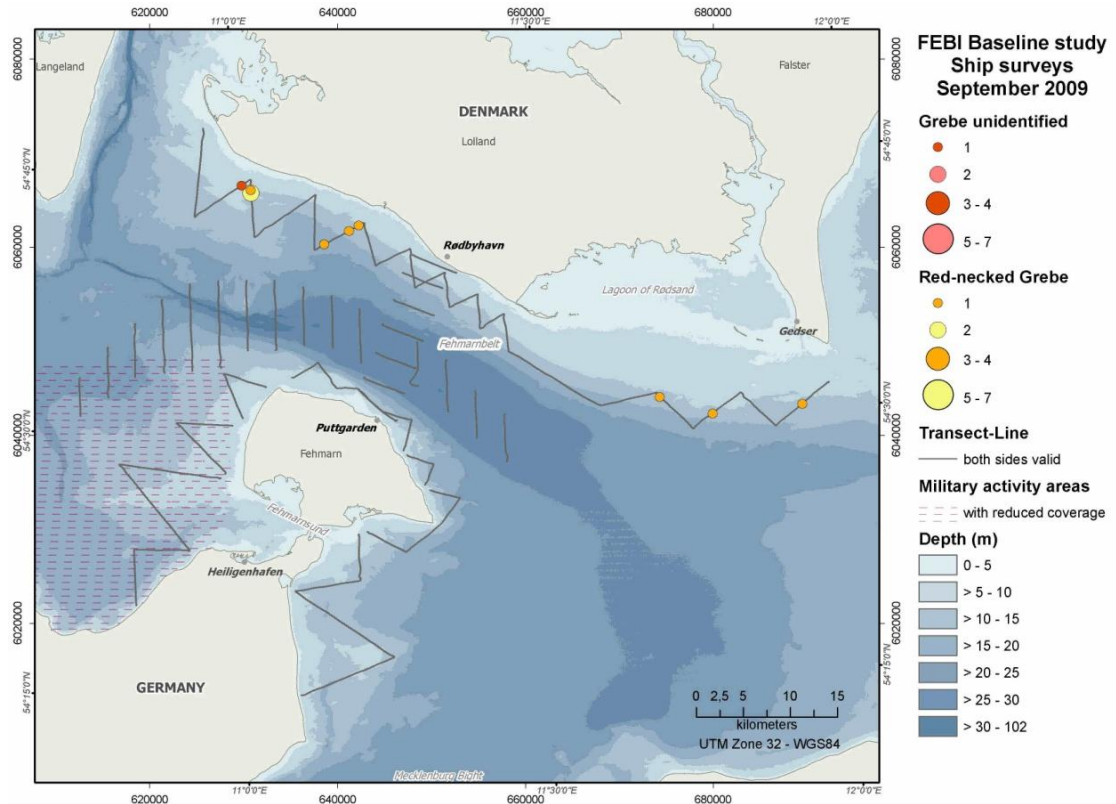


Figure 1.16 Grebe distribution in the study area during ship-based surveys (September 2009).

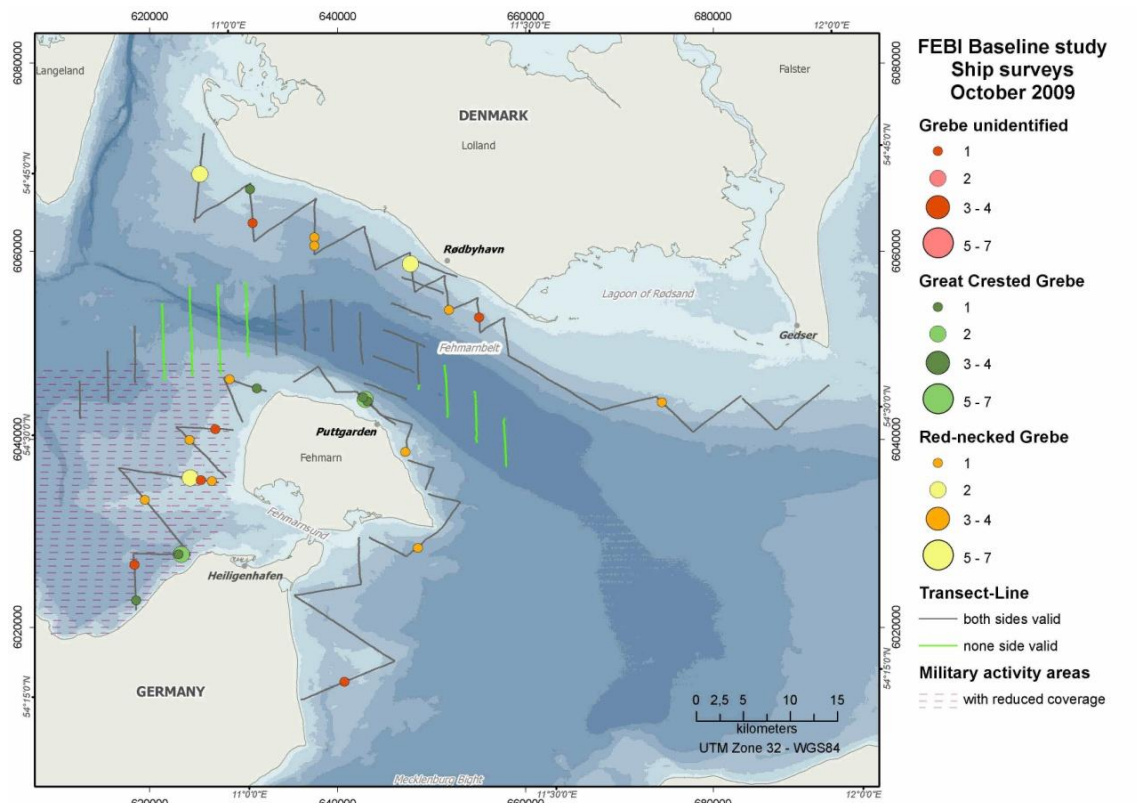


Figure 1.17 Grebe distribution in the study area during ship-based surveys (October 2009).

FEHMARNBELT BIRDS

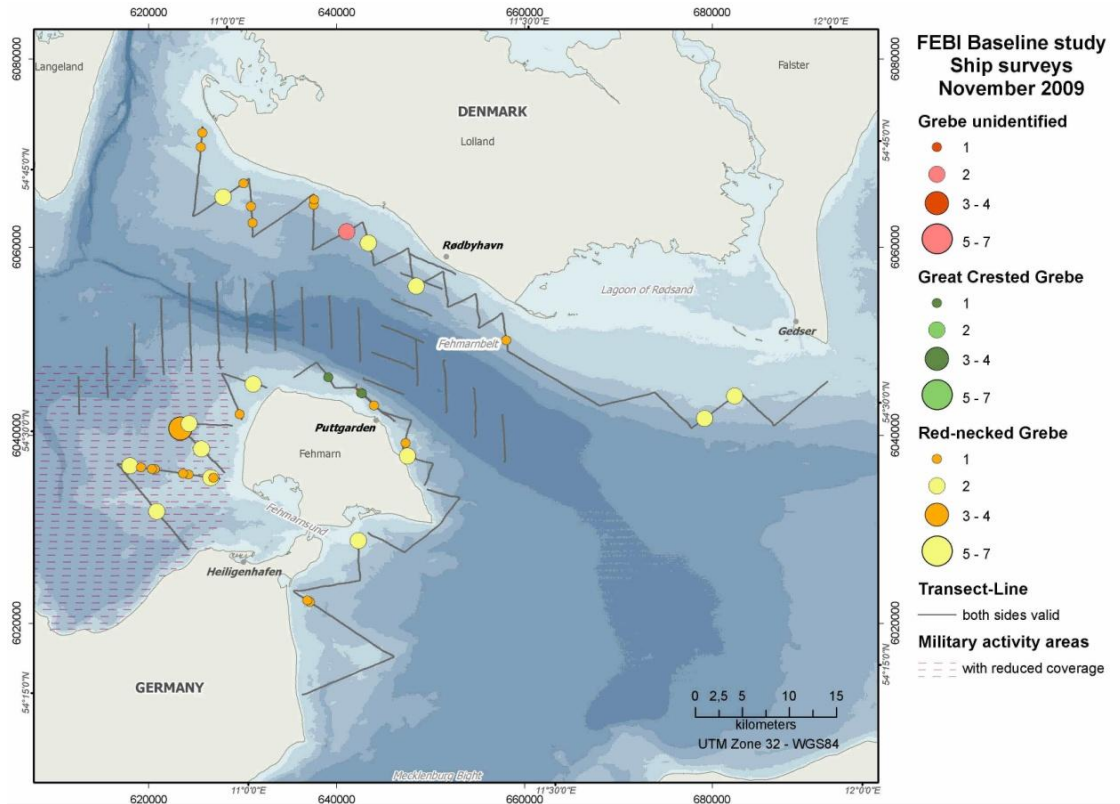


Figure 1.18 Grebe distribution in the study area during ship-based surveys (November 2009).

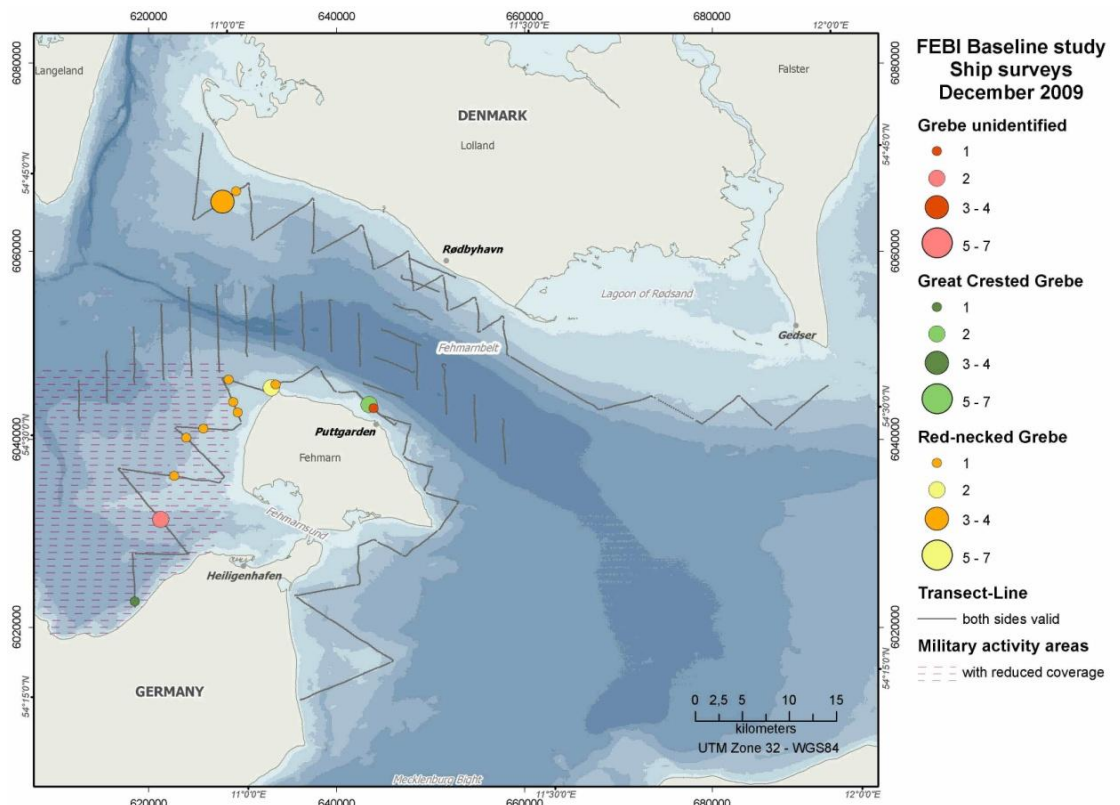


Figure 1.19 Grebe distribution in the study area during ship-based surveys (December 2009).

1.1.3 Great Cormorant / Velvet Scoter – *Phalacrocorax carbo* / *Melanitta fusca*

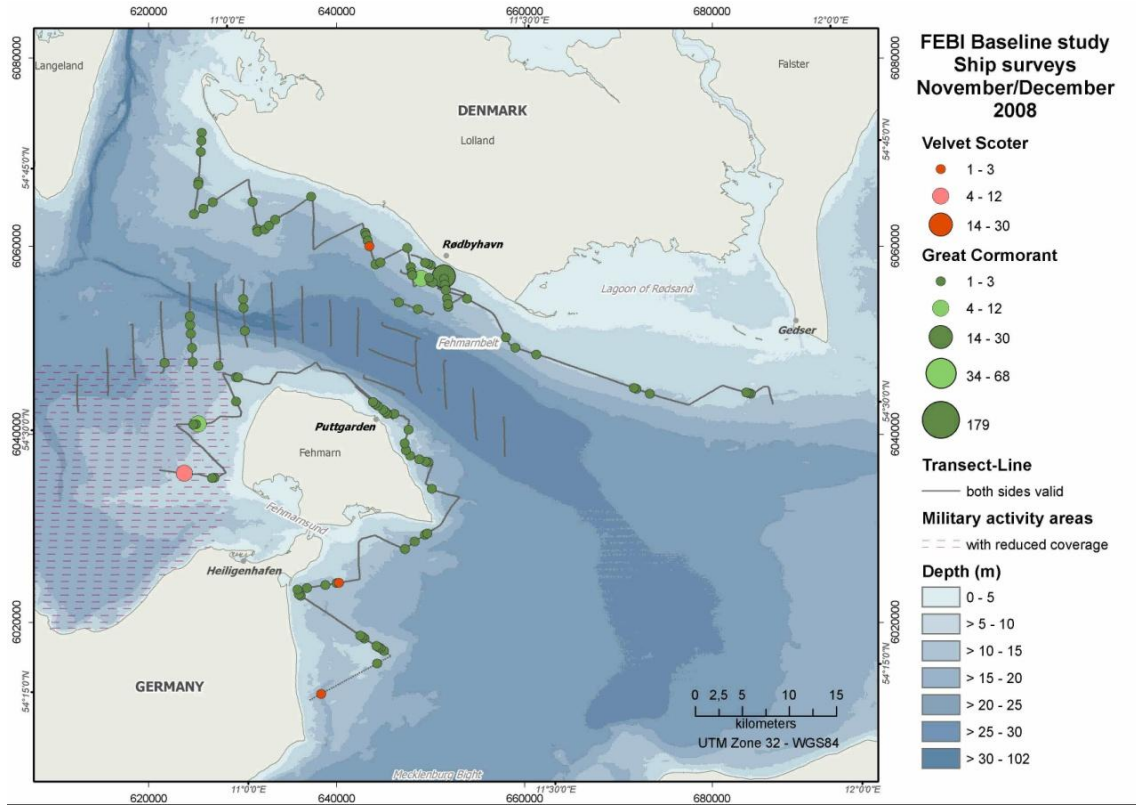


Figure 1.20 Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (November/December 2008).

FEHMARNBELT BIRDS

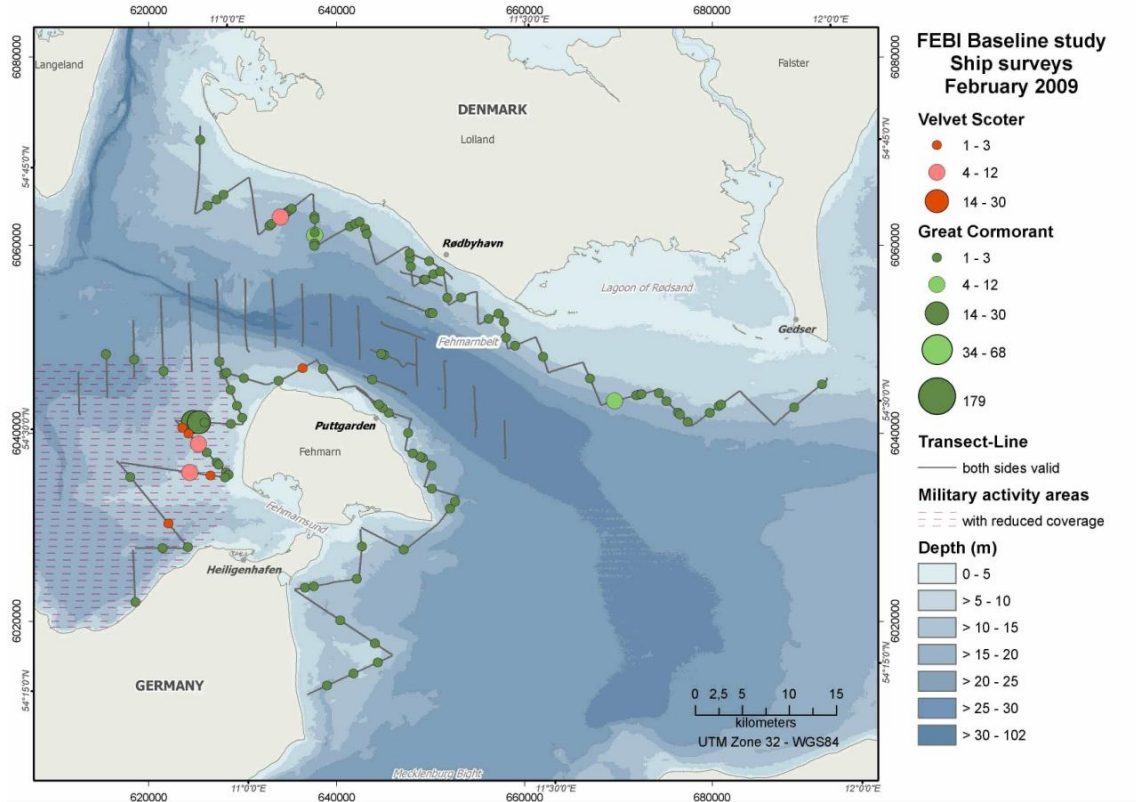


Figure 1.23 Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (February 2009).

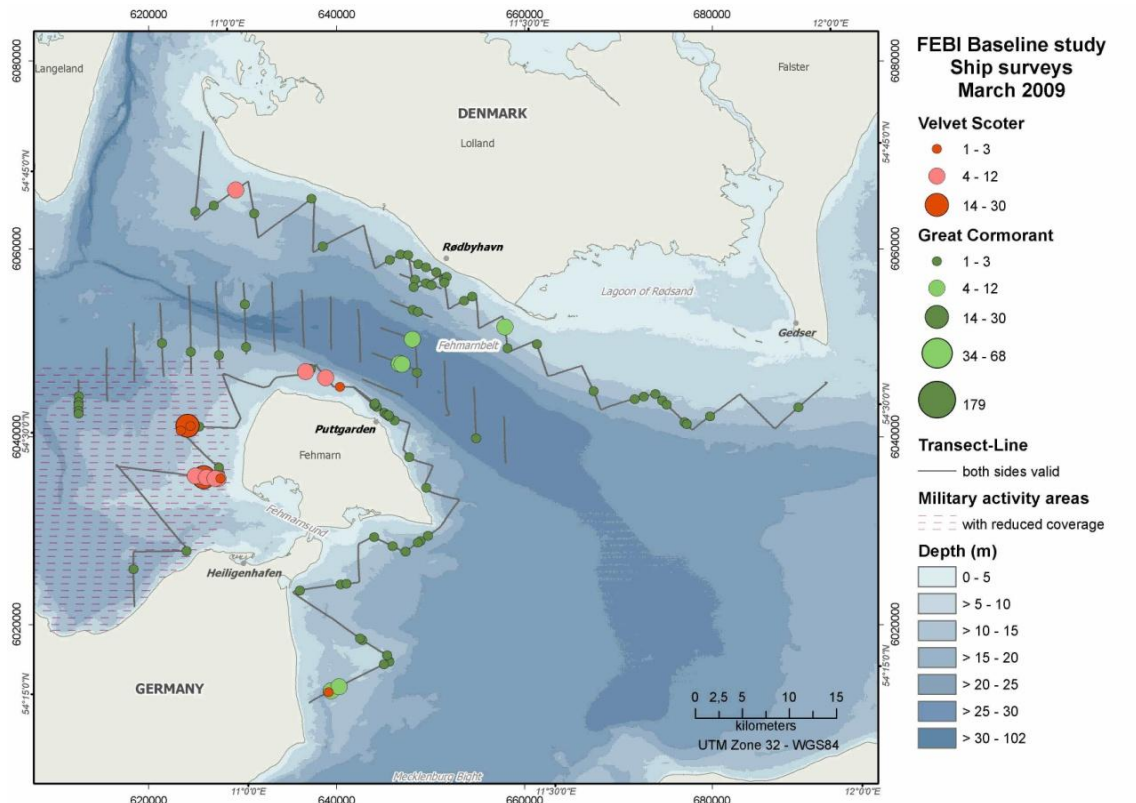


Figure 1.24 Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (March 2009).

FEHMARNBELT BIRDS

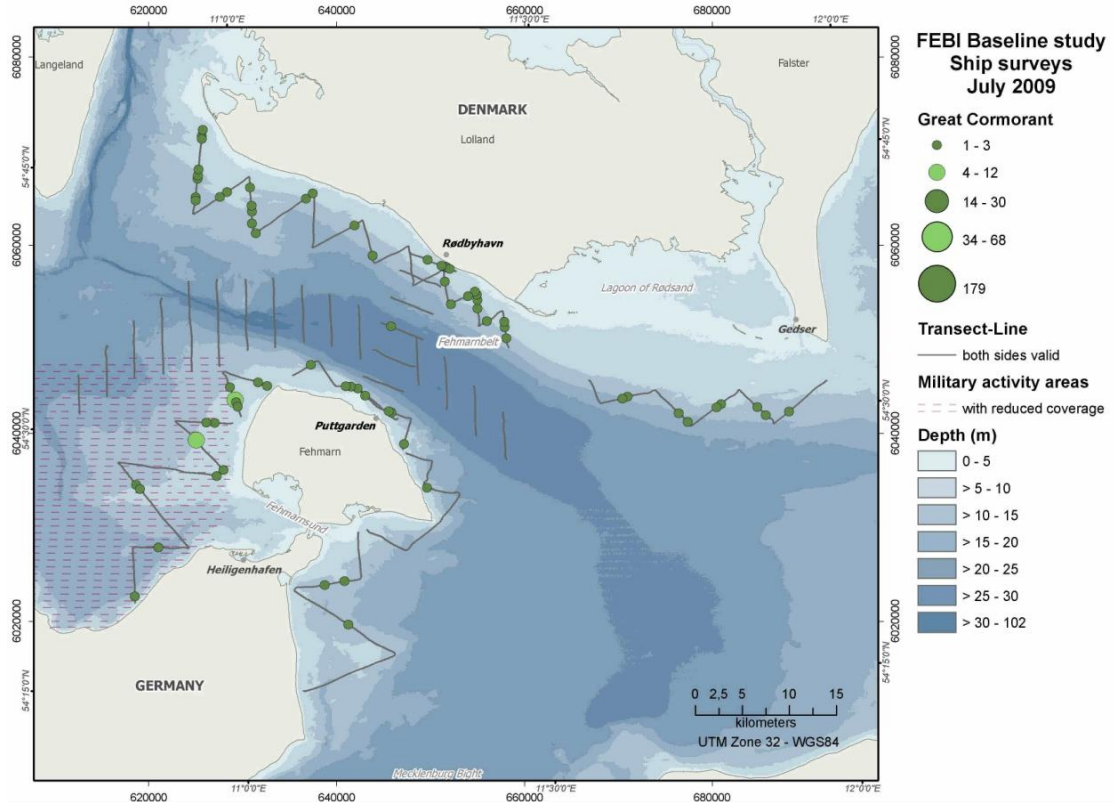


Figure 1.27 Great Cormorant distribution in the study area during ship-based surveys (July 2009).

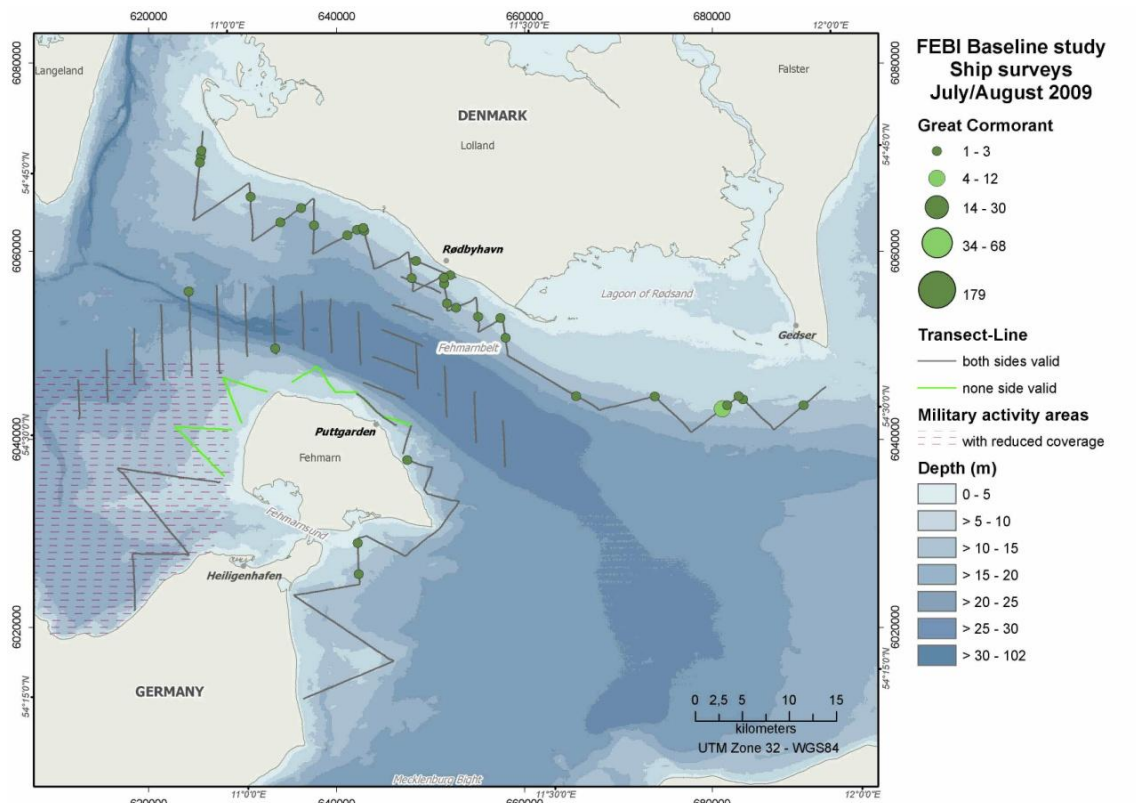


Figure 1.28 Great Cormorant distribution in the study area during ship-based surveys (July and July/August 2009).

FEHMARNBELT BIRDS

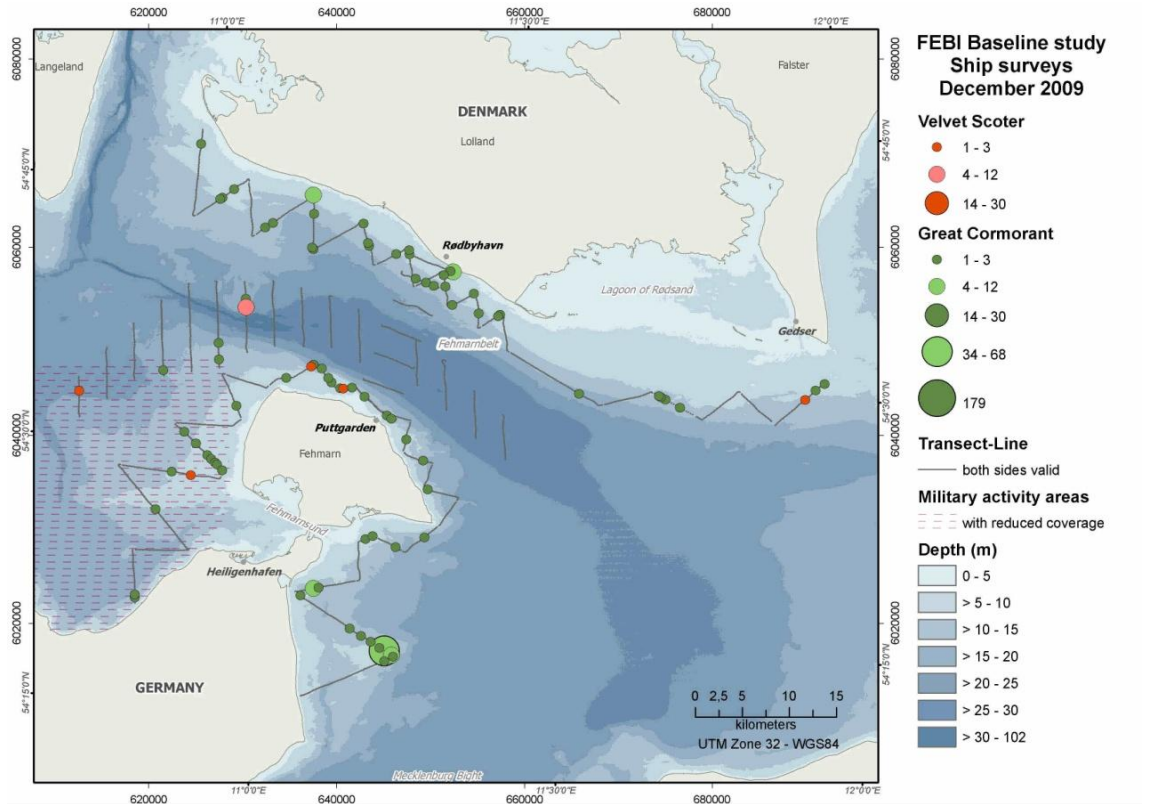


Figure 1.33 Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (December 2009).

1.1.4 Common Eider – *Somateria mollissima*

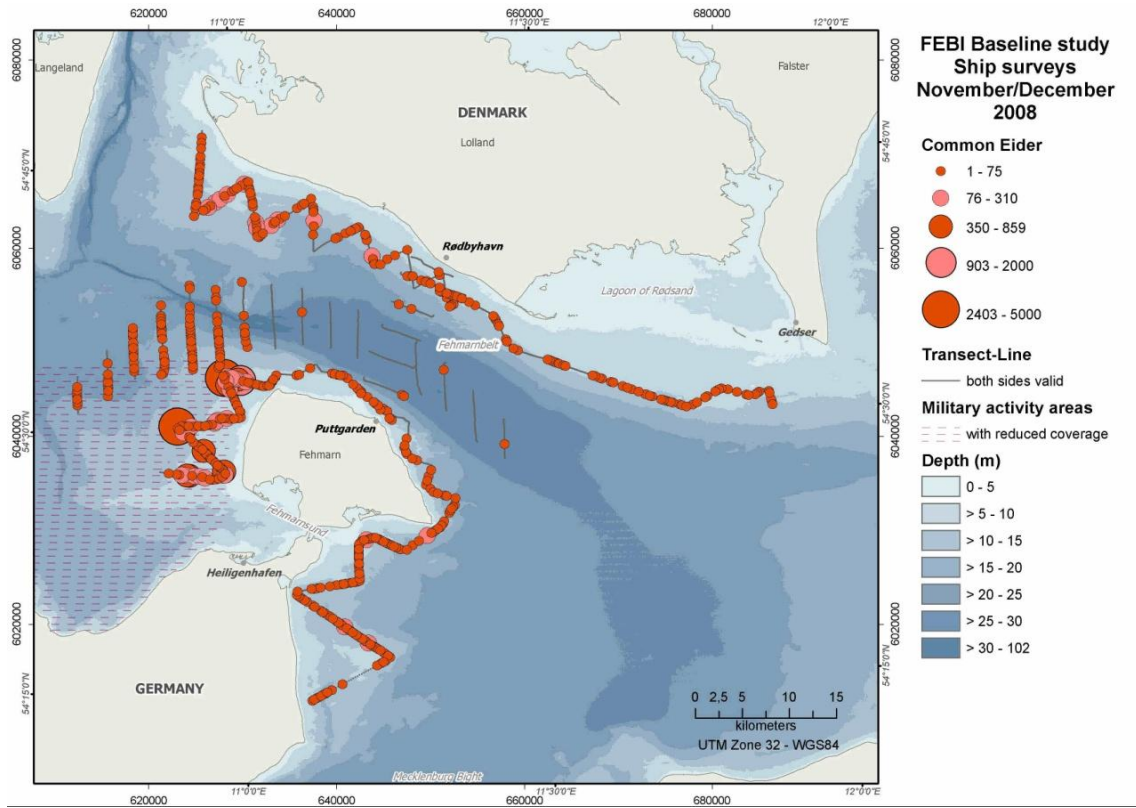


Figure 1.34 Common Eider distribution in the study area during ship-based surveys (November/December 2008).

FEHMARNBELT BIRDS

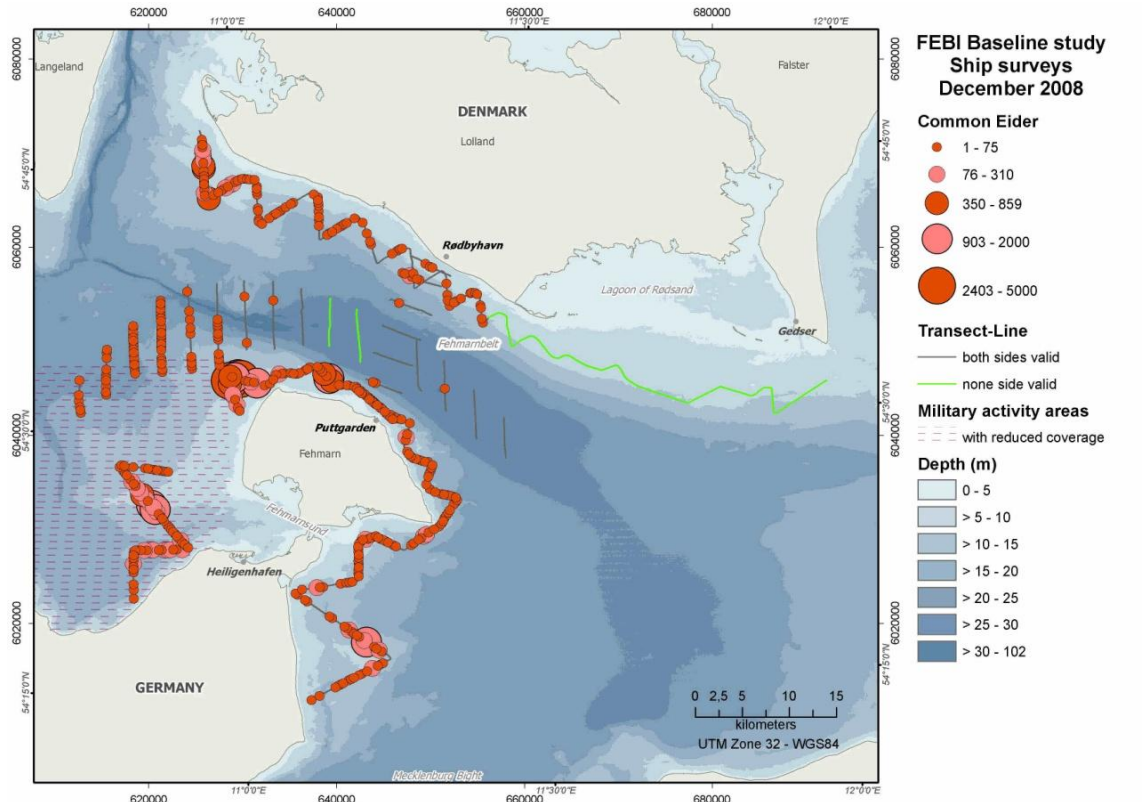


Figure 1.35 Common Eider distribution in the study area during ship-based surveys (December 2008).

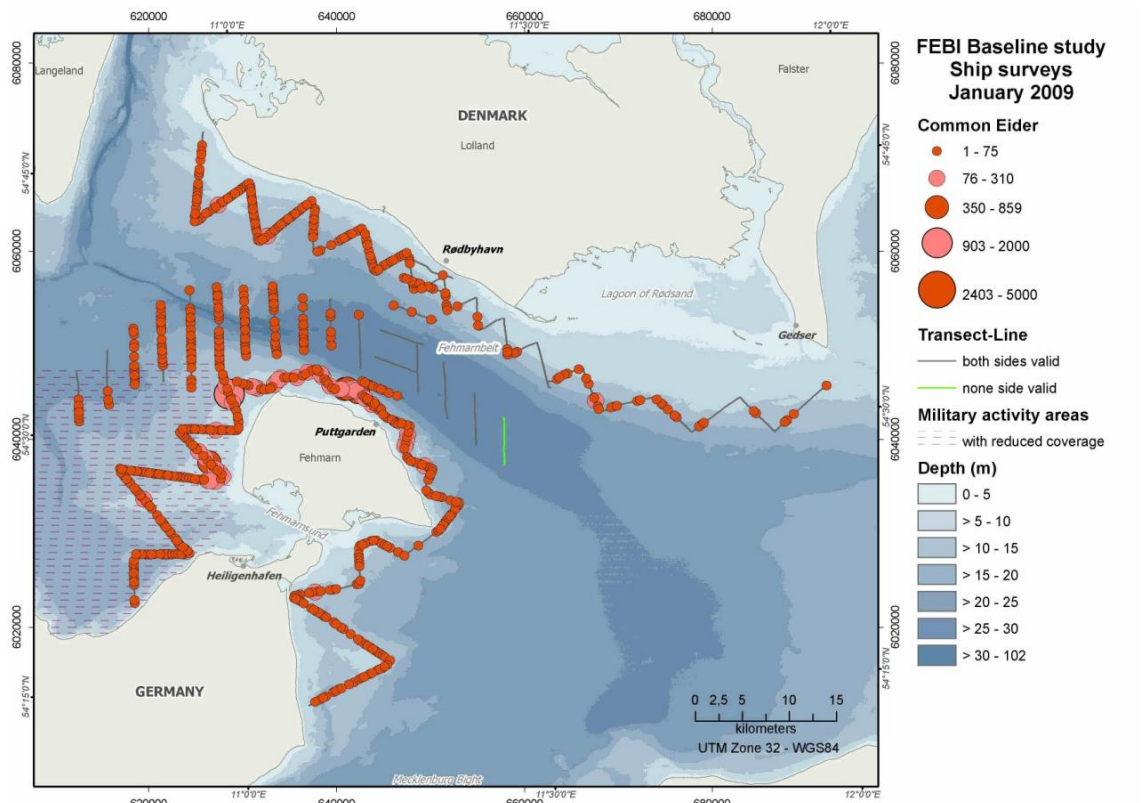


Figure 1.36 Common Eider distribution in the study area during ship-based surveys (January 2009).

FEHMARNBELT BIRDS

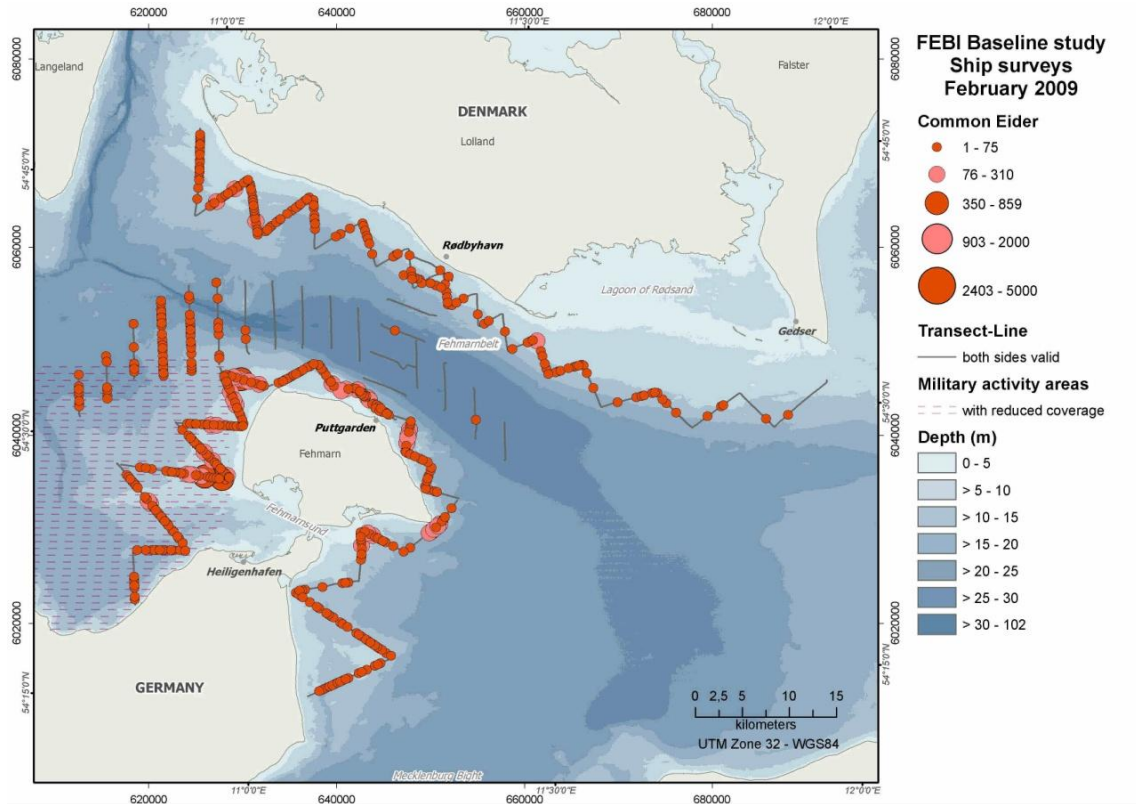


Figure 1.37 Common Eider distribution in the study area during ship-based surveys (February 2009).

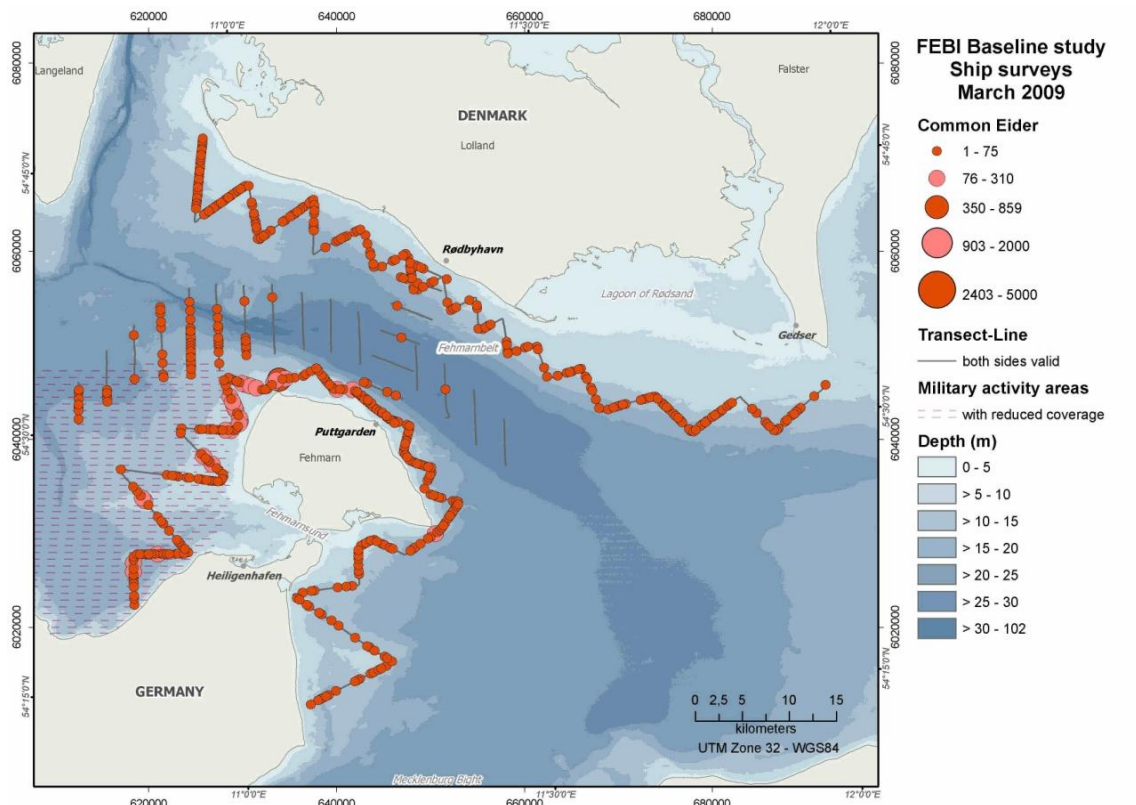


Figure 1.38 Common Eider distribution in the study area during ship-based surveys (March 2009).

FEHMARNBELT BIRDS

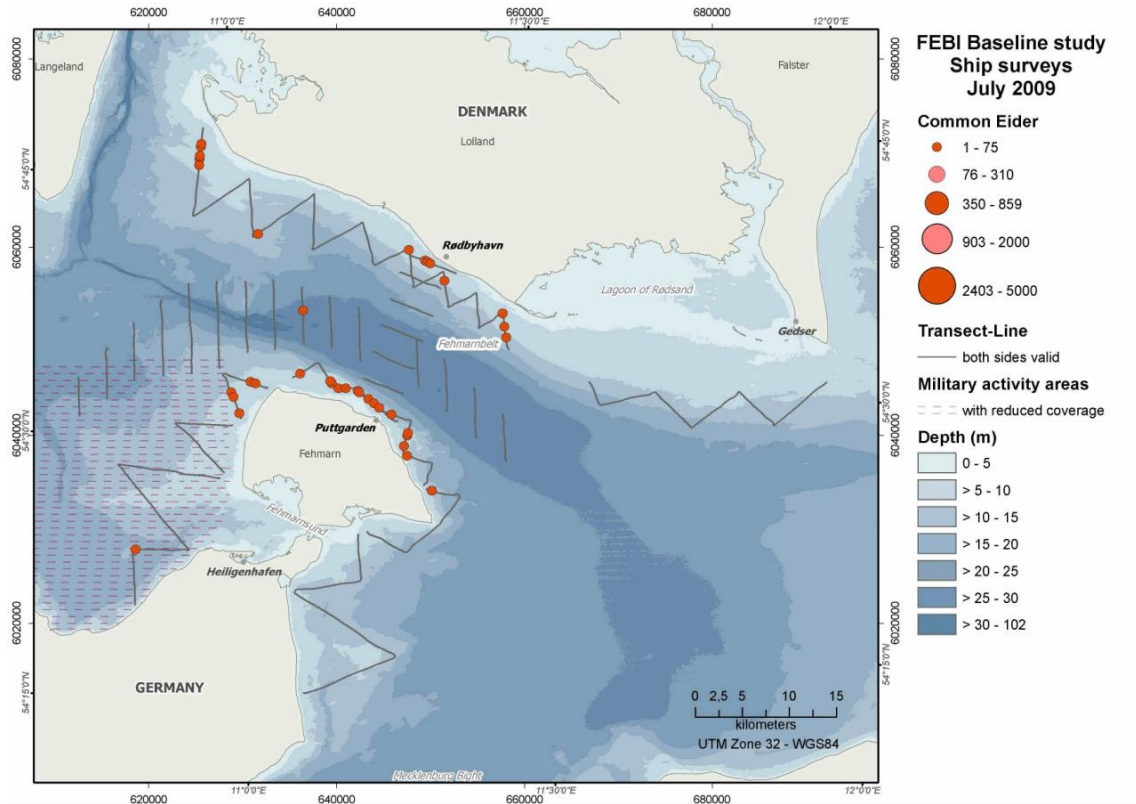


Figure 1.41 Common Eider distribution in the study area during ship-based surveys (July 2009).

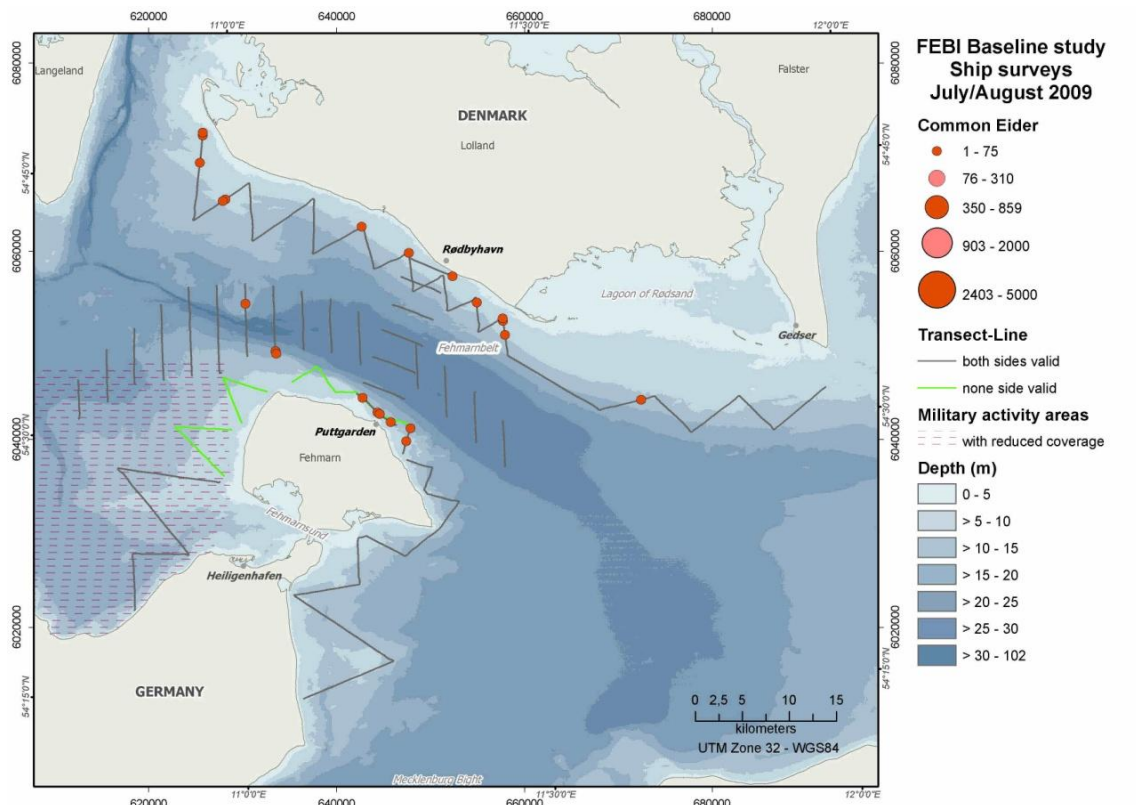


Figure 1.42 Common Eider distribution in the study area during ship-based surveys (July/August 2009).

FEHMARNBELT BIRDS

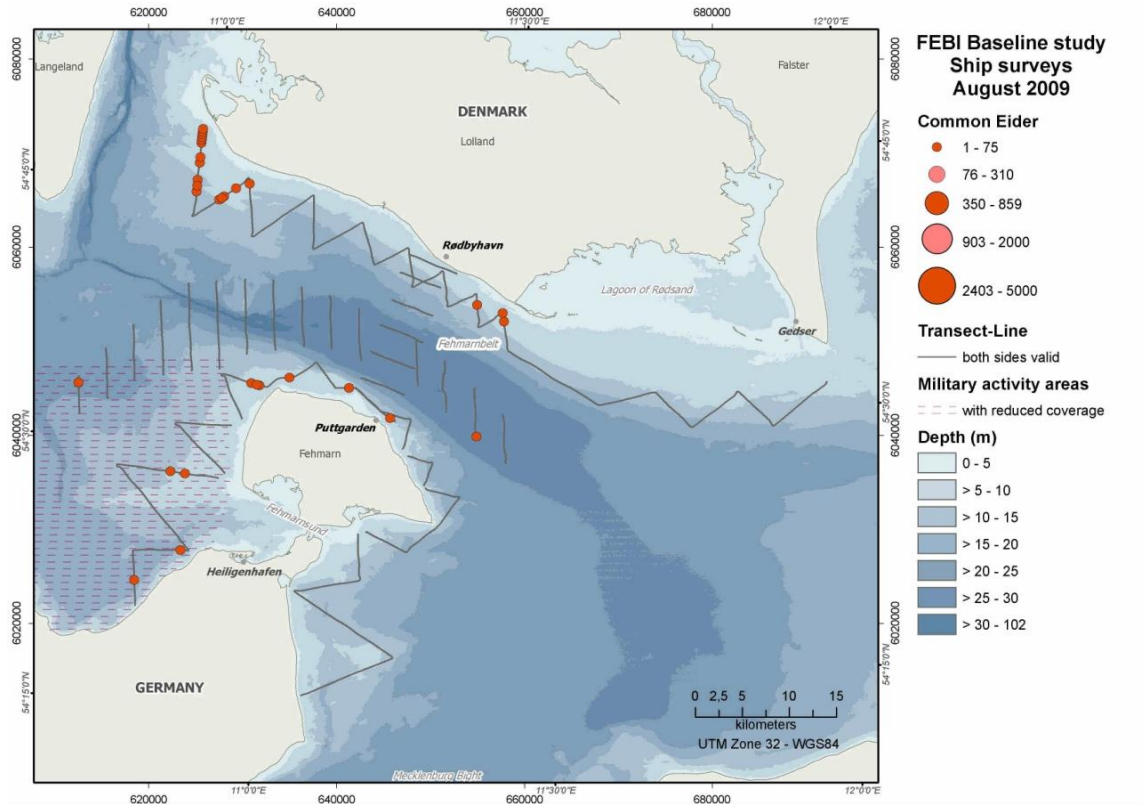


Figure 1.43 Common Eider distribution in the study area during ship-based surveys (August 2009).

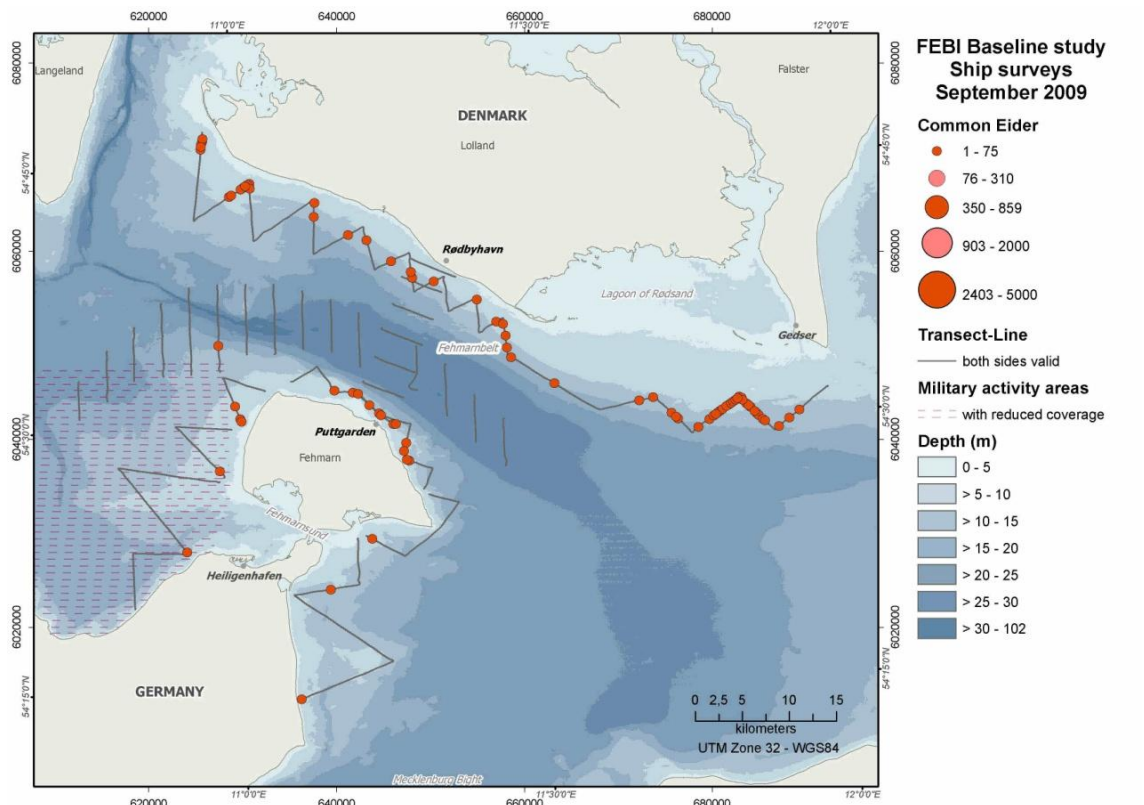


Figure 1.44 Common Eider distribution in the study area during ship-based surveys (September 2009).

FEHMARNBELT BIRDS

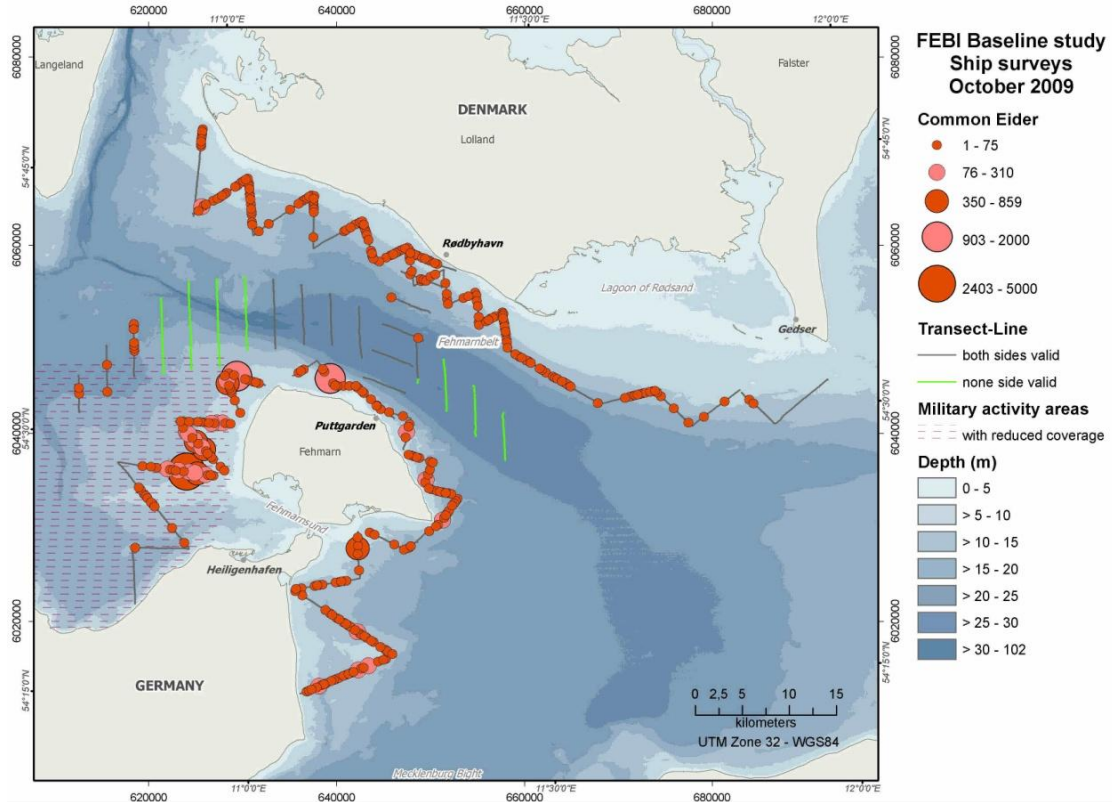


Figure 1.45 Common Eider distribution in the study area during ship-based surveys (October 2009).

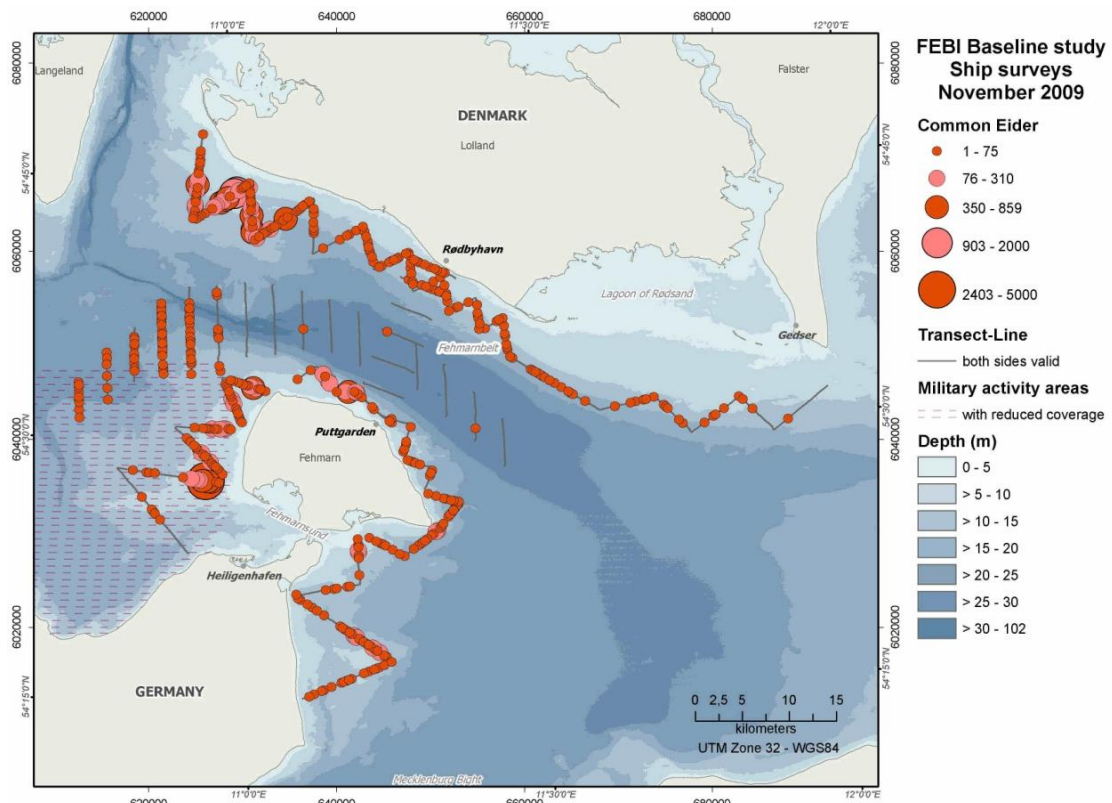


Figure 1.46 Common Eider distribution in the study area during ship-based surveys (November 2009).

FEHMARNBELT BIRDS

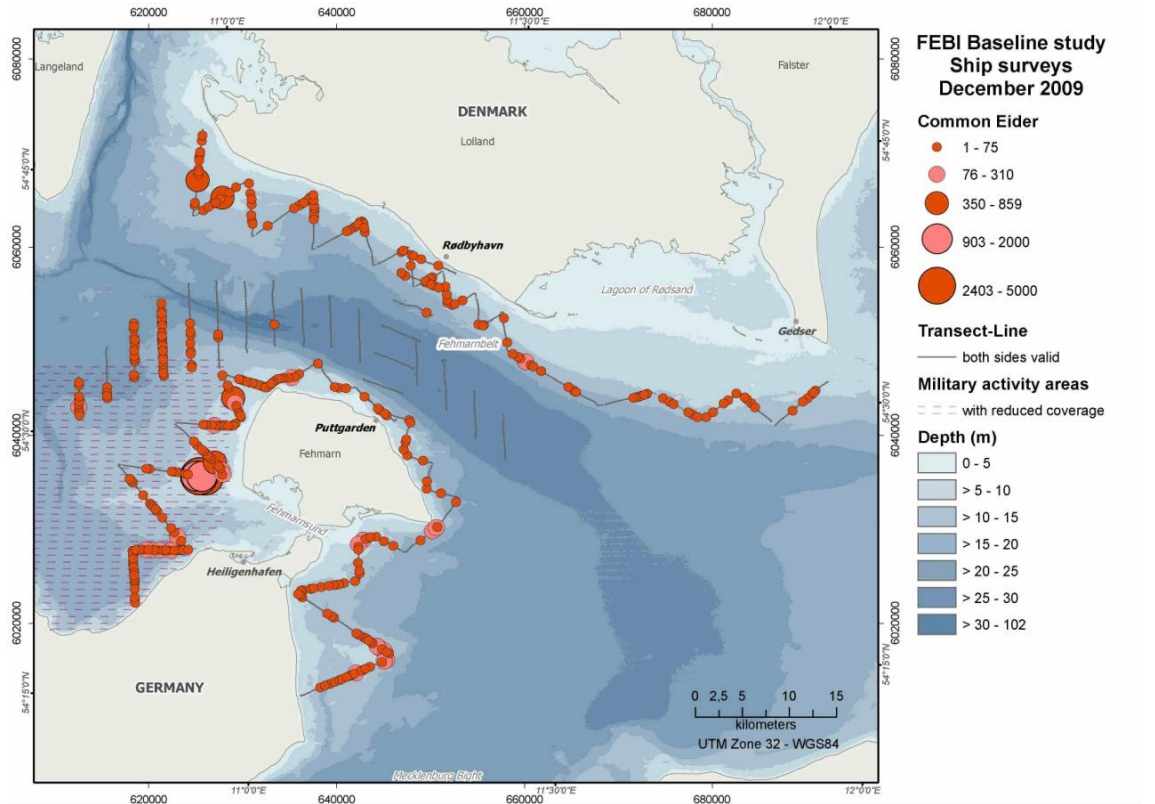


Figure 1.47 Common Eider distribution in the study area during ship-based surveys (December 2009).

1.1.5 Long-tailed Duck – *Clangula hyemalis*

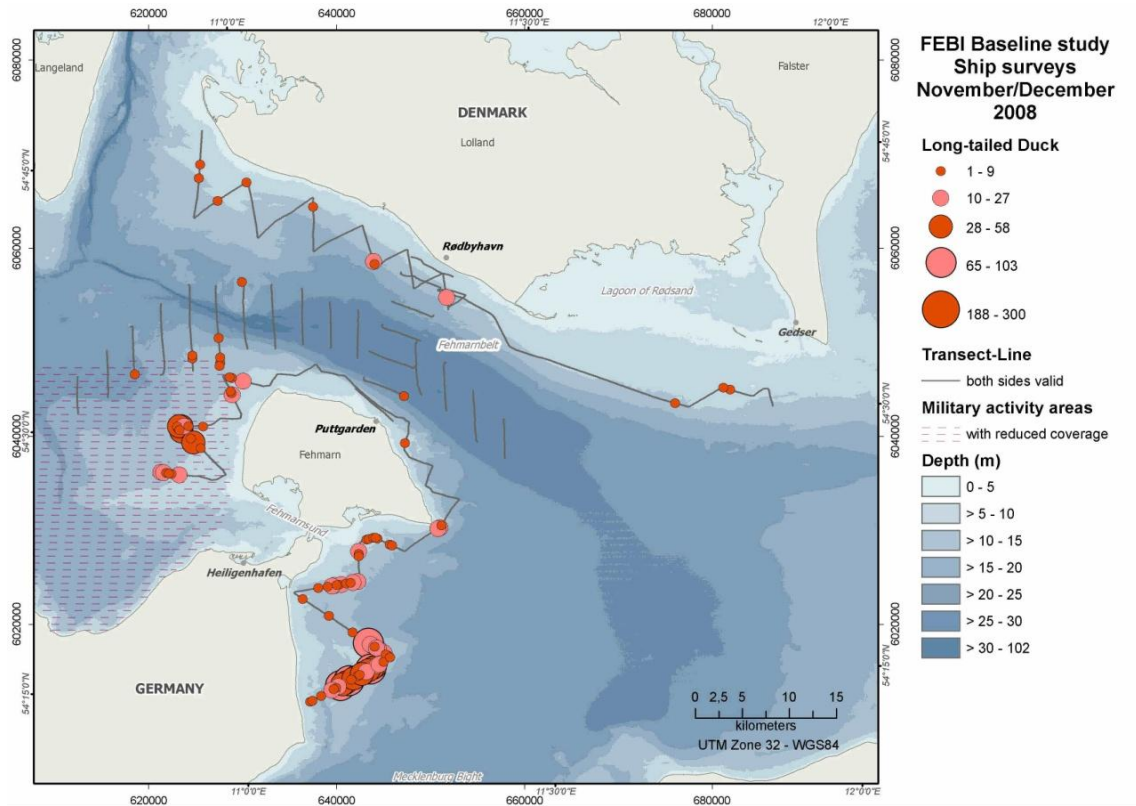


Figure 1.48 Long-tailed Duck distribution in the study area during ship-based surveys (November/December 2008).

FEHMARNBELT BIRDS

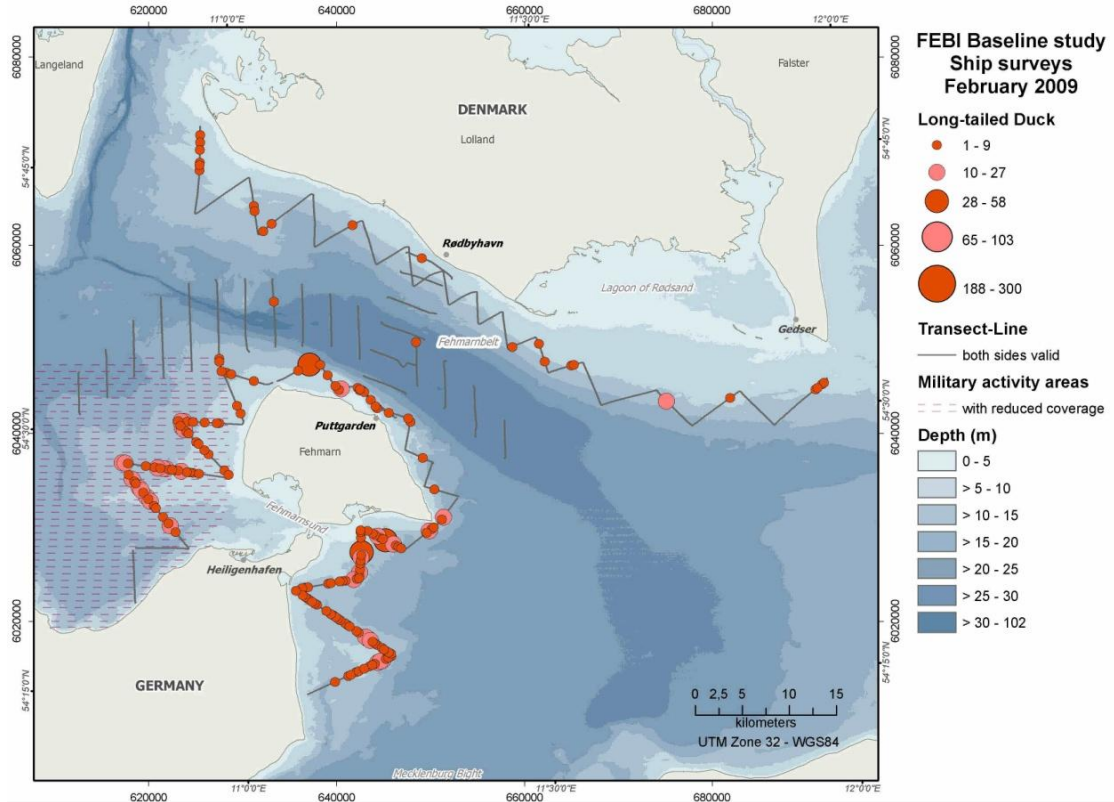


Figure 1.51 Long-tailed Duck distribution in the study area during ship-based surveys (February 2009).

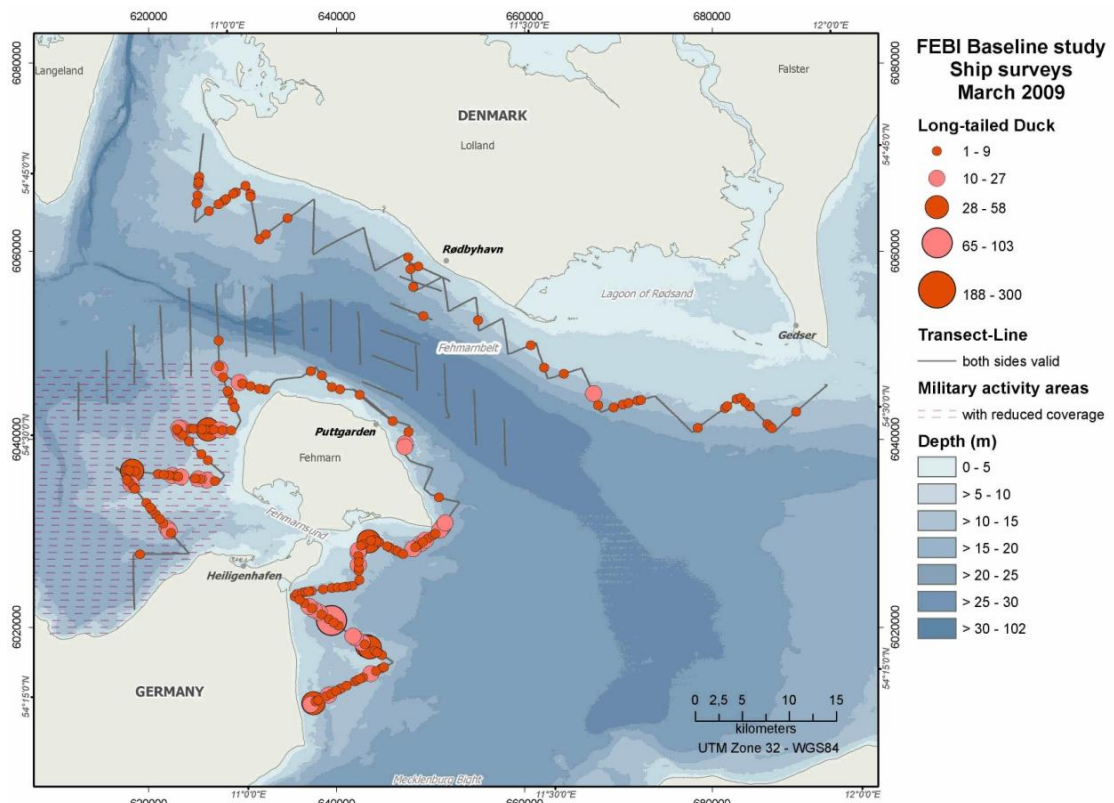


Figure 1.52 Long-tailed Duck distribution in the study area during ship-based surveys (March 2009).

FEHMARNBELT BIRDS

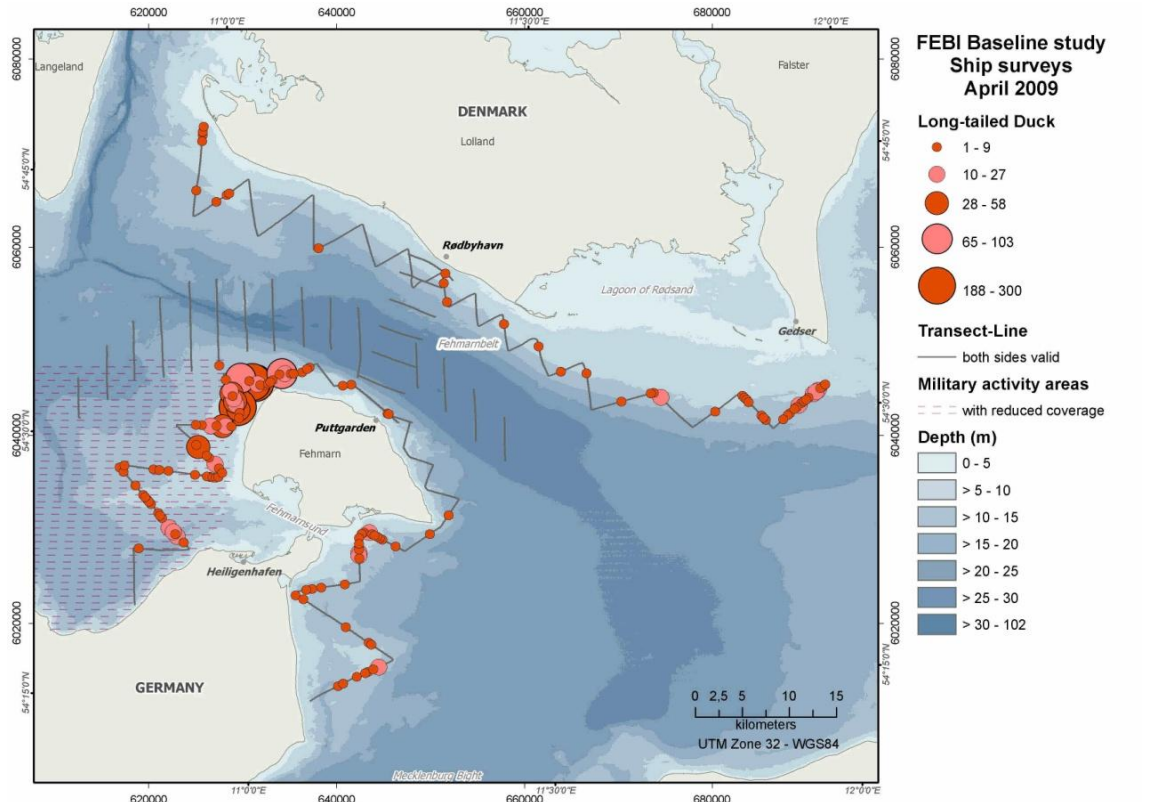


Figure 1.53 Long-tailed Duck distribution in the study area during ship-based surveys (April 2009).

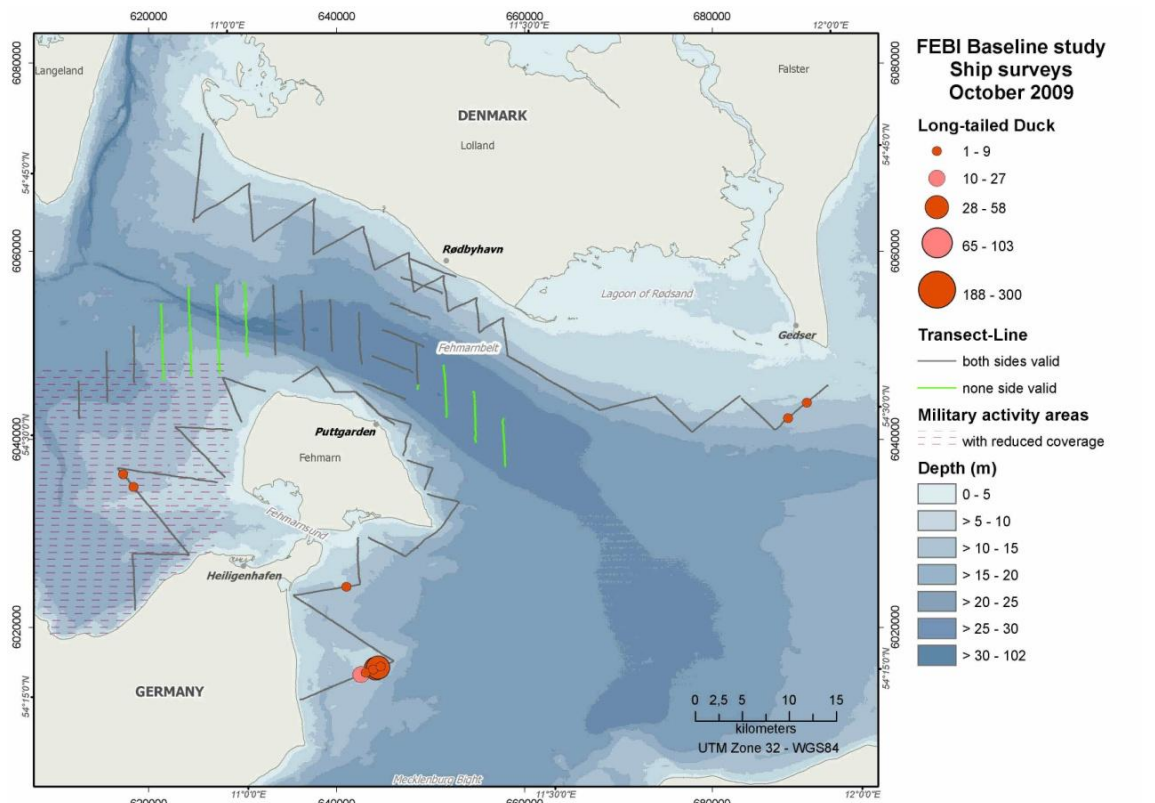


Figure 1.54 Long-tailed Duck distribution in the study area during ship-based surveys (October 2009).

FEHMARNBELT BIRDS

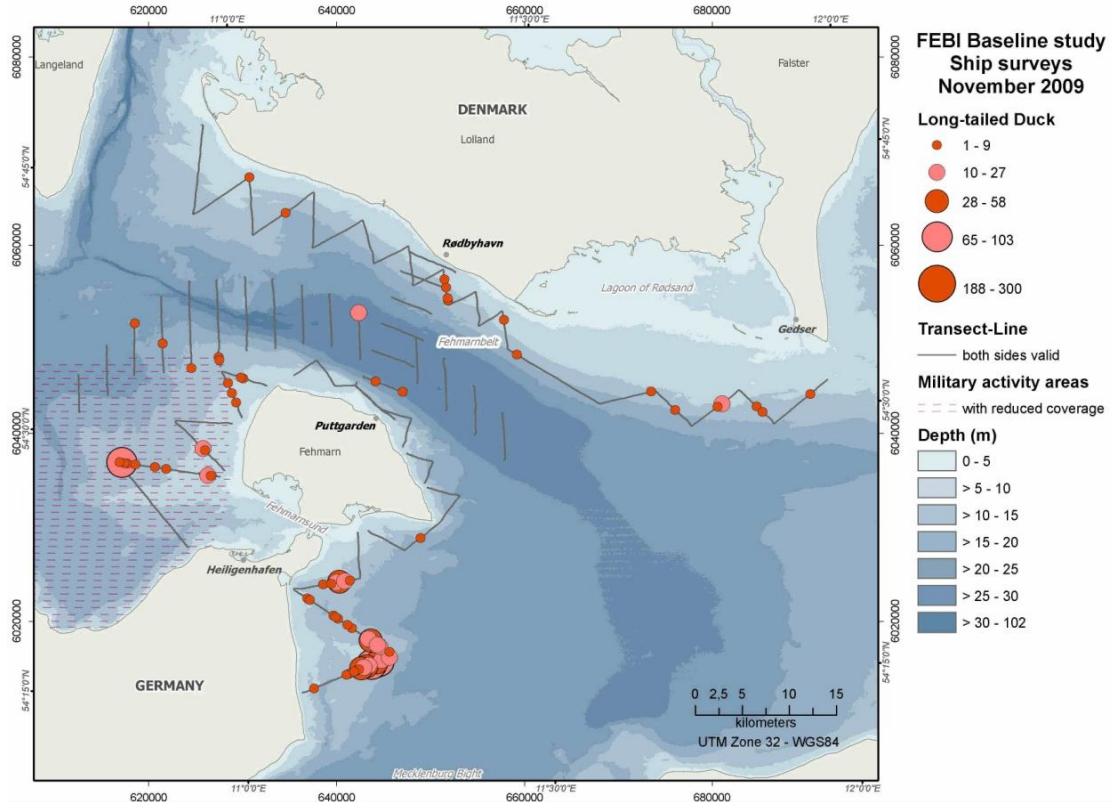


Figure 1.55 Long-tailed Duck distribution in the study area during ship-based surveys (November 2009).

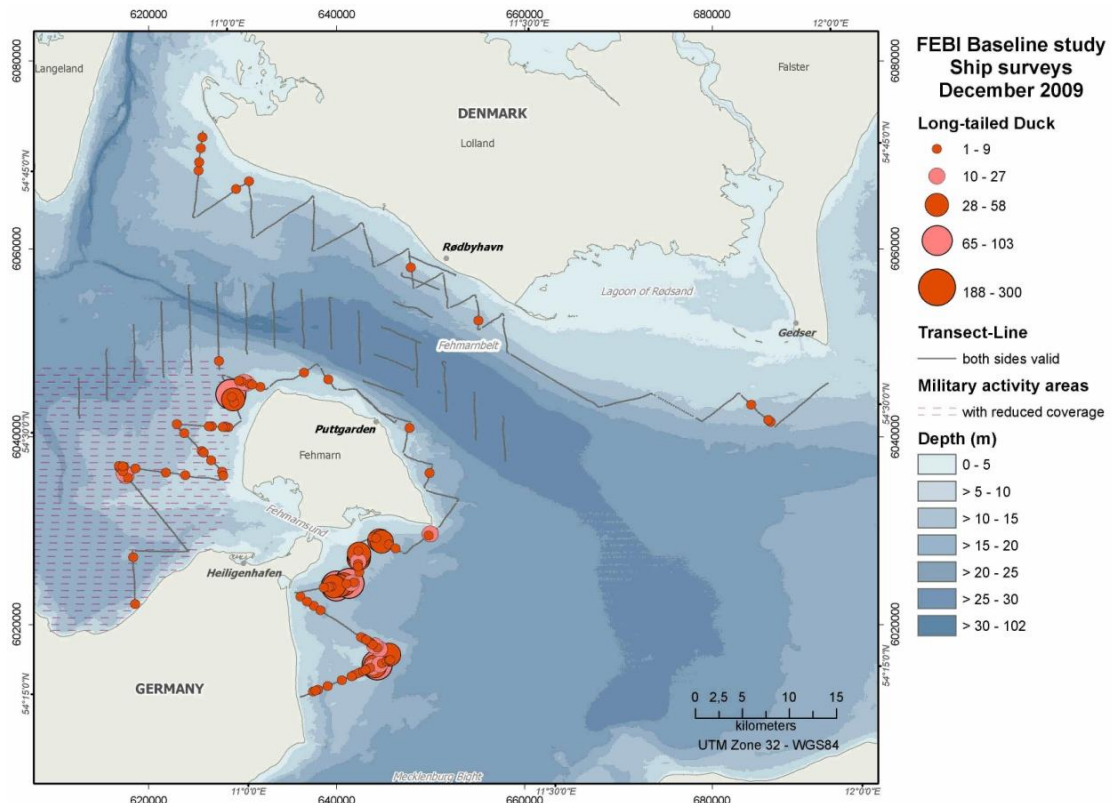


Figure 1.56 Long-tailed Duck distribution in the study area during ship-based surveys (December 2009).

1.1.6 Common Scoter – *Melanitta nigra*

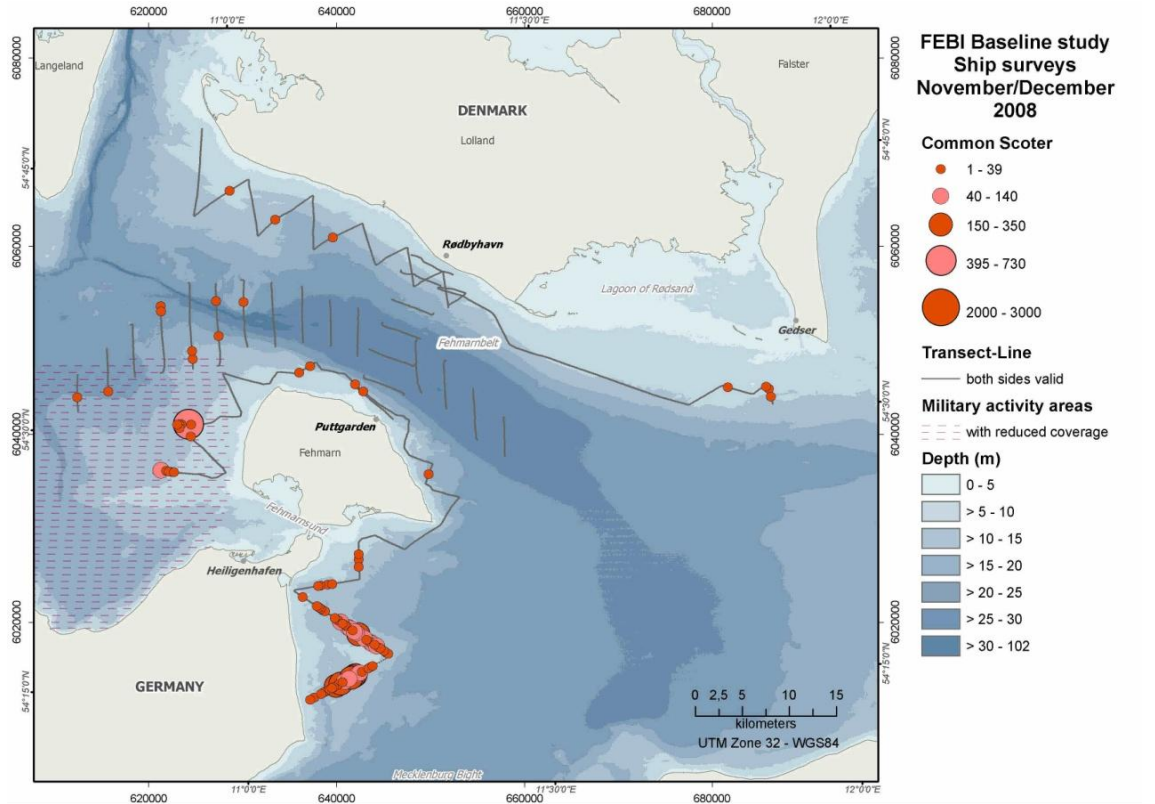


Figure 1.57 Common Scoter distribution in the study area during ship-based surveys (November/December 2008).

FEHMARNBELT BIRDS

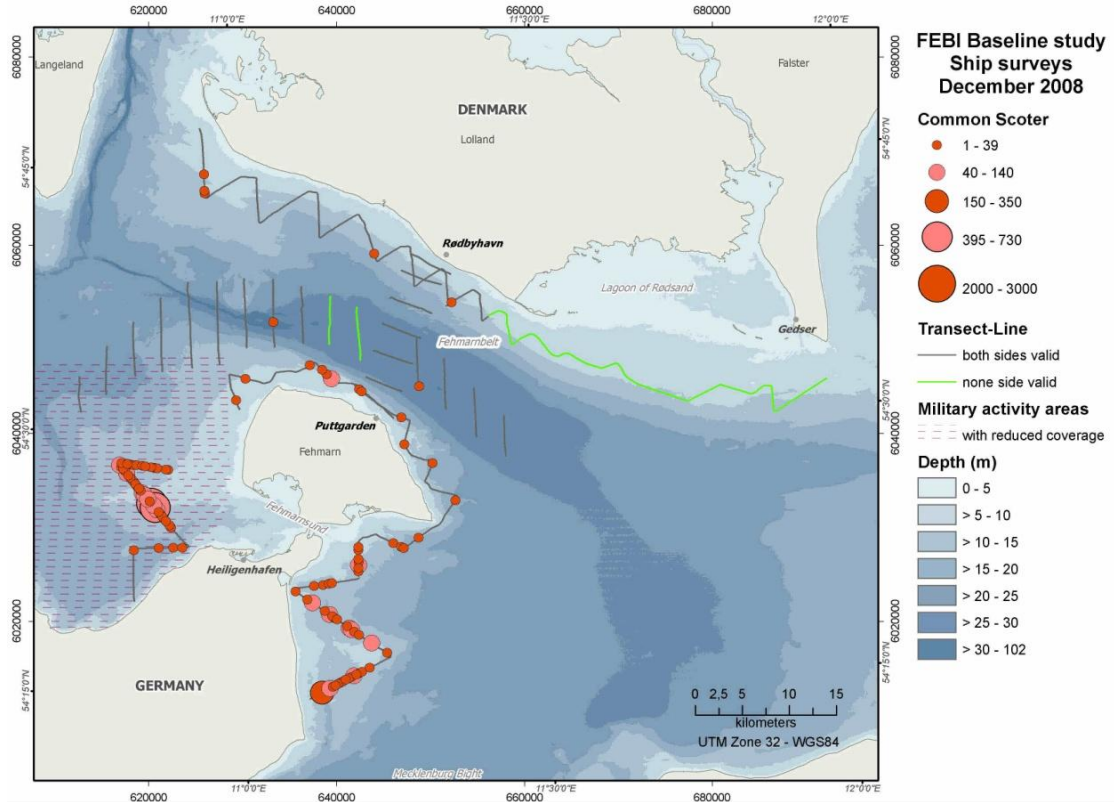


Figure 1.58 Common Scoter distribution in the study area during ship-based surveys (December 2008).

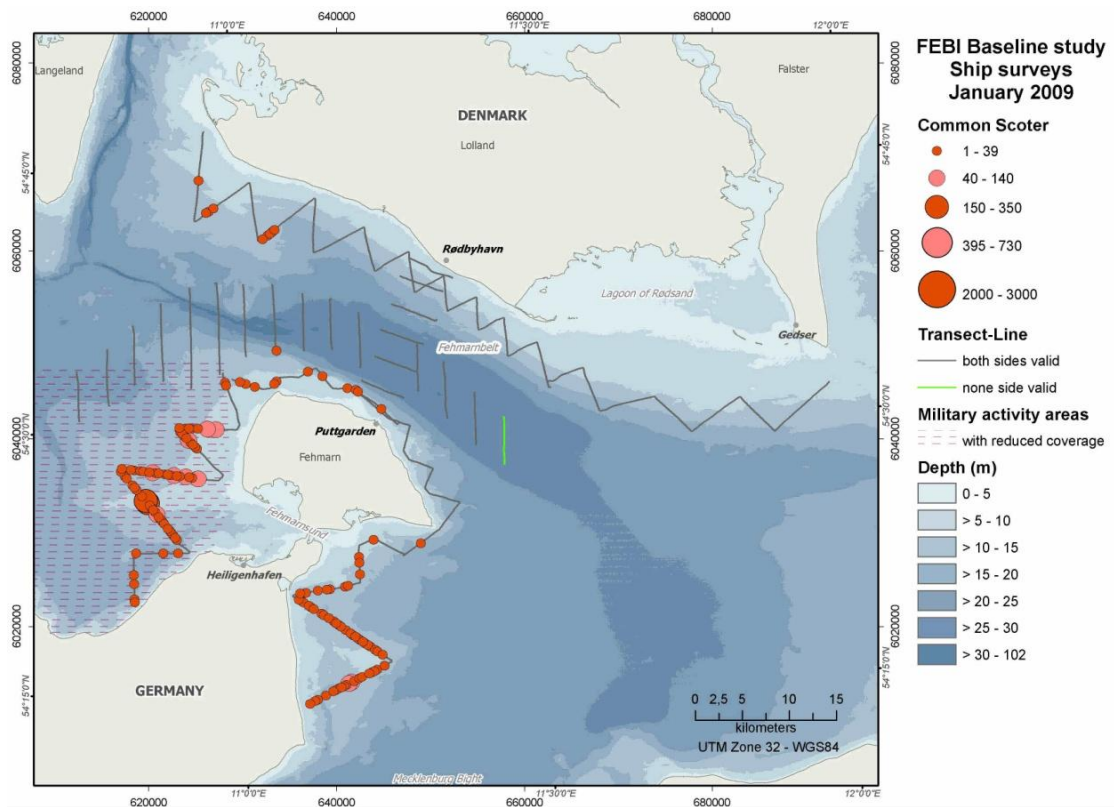


Figure 1.59 Common Scoter distribution in the study area during ship-based surveys (January 2009).

FEHMARNBELT BIRDS

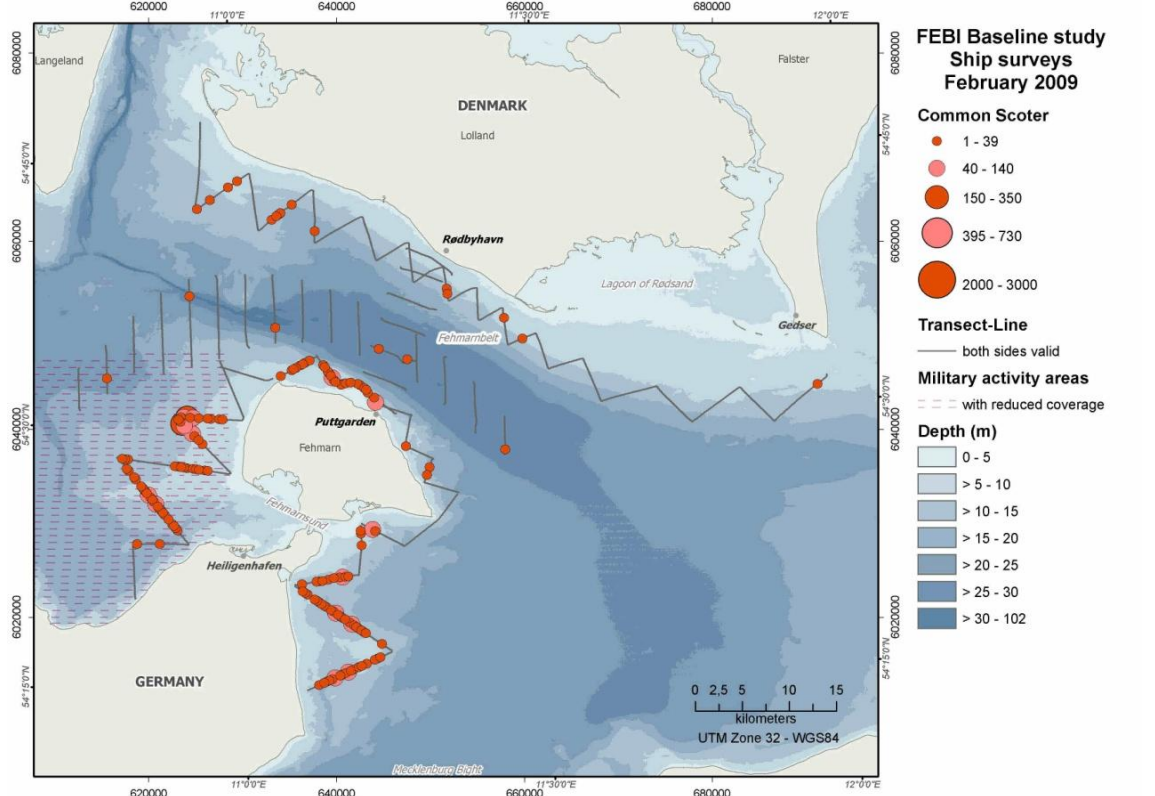


Figure 1.60 Common Scoter distribution in the study area during ship-based surveys (February 2009).

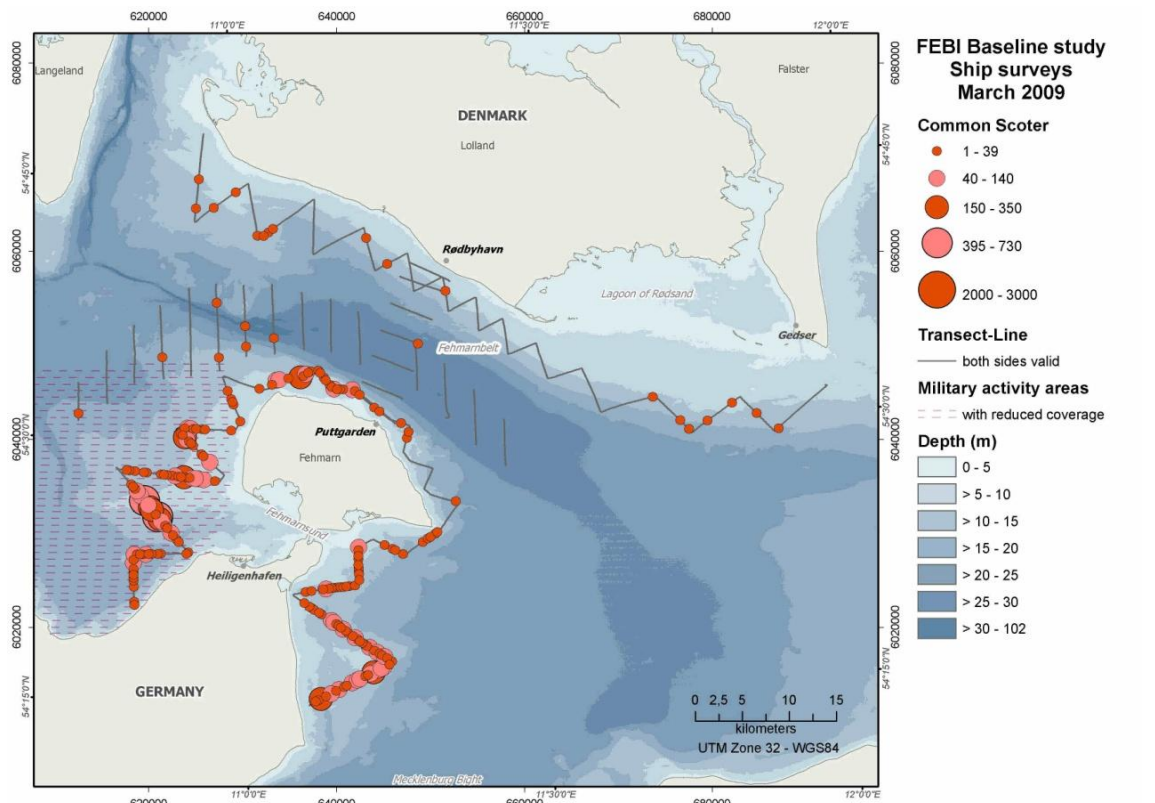


Figure 1.61 Common Scoter distribution in the study area during ship-based surveys (March 2009).

FEHMARNBELT BIRDS

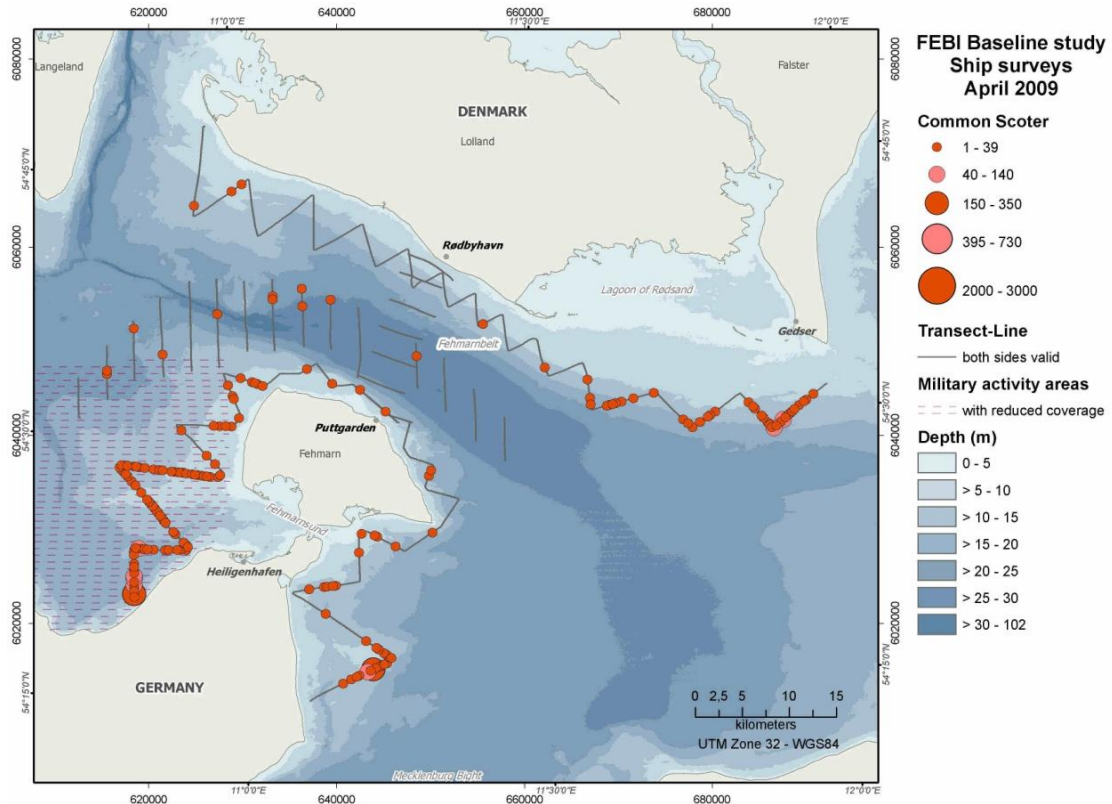


Figure 1.62 Common Scoter distribution in the study area during ship-based surveys (April 2009).

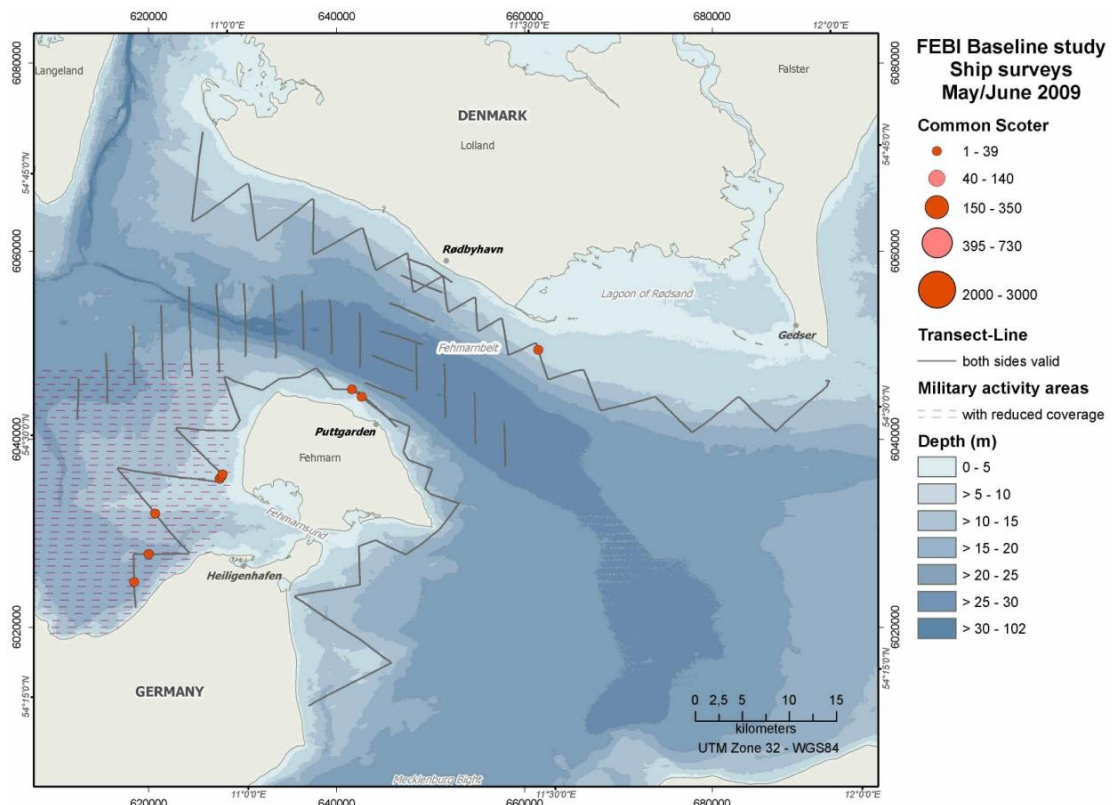


Figure 1.63 Common Scoter distribution in the study area during ship-based surveys (May/June 2009).

FEHMARNBELT BIRDS

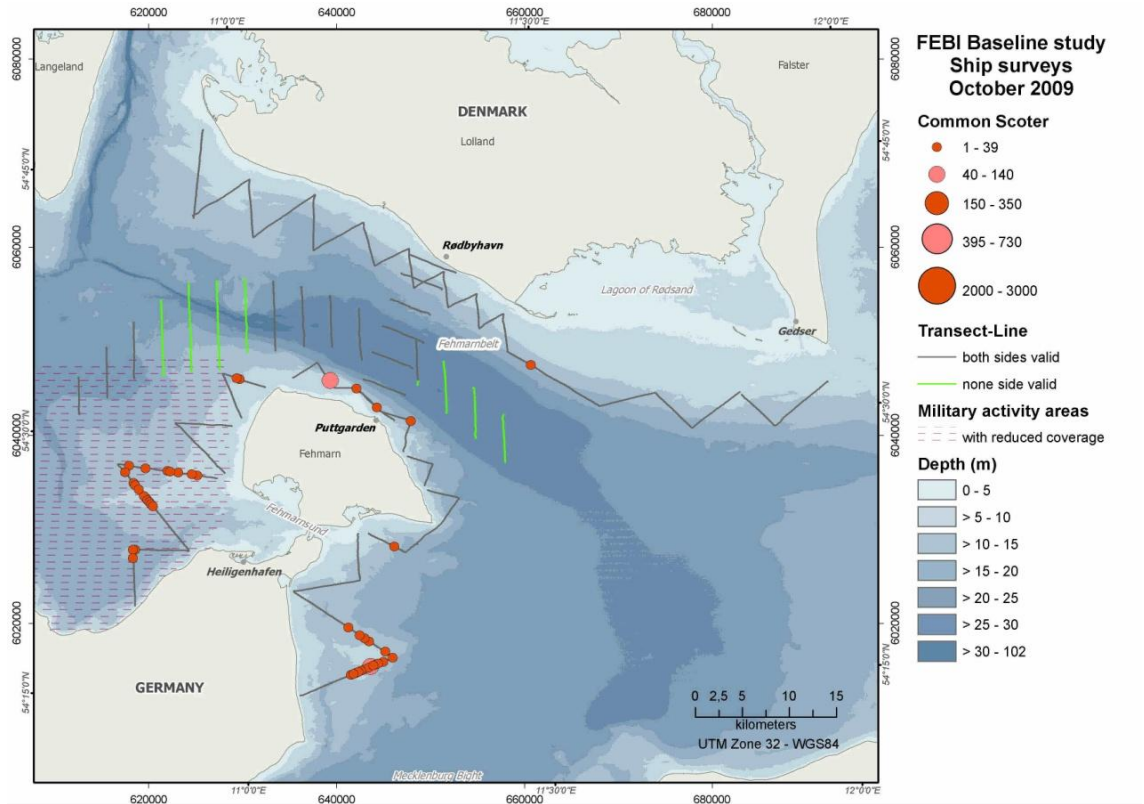


Figure 1.64 Common Scoter distribution in the study area during ship-based surveys (October 2009).

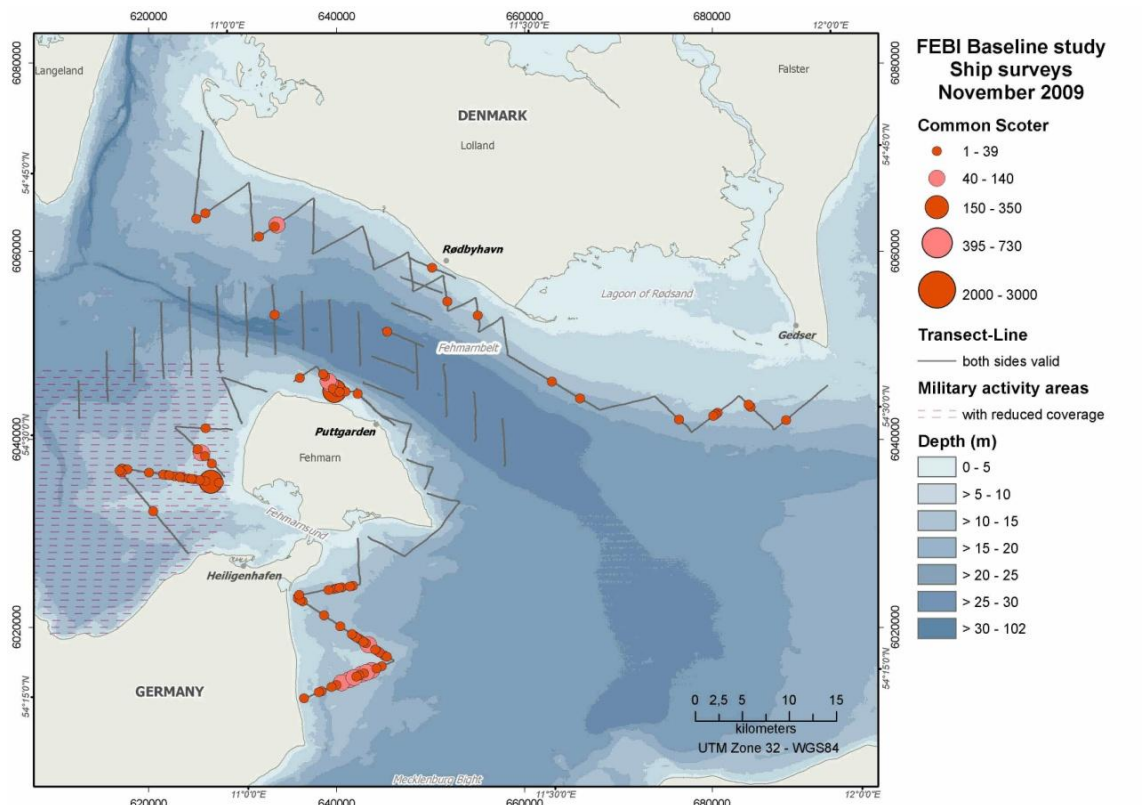


Figure 1.65 Common Scoter distribution in the study area during ship-based surveys (November 2009).

1.1.7 Red-breasted Merganser / Goosander – *Mergus serrator* / *Mergus merganser*

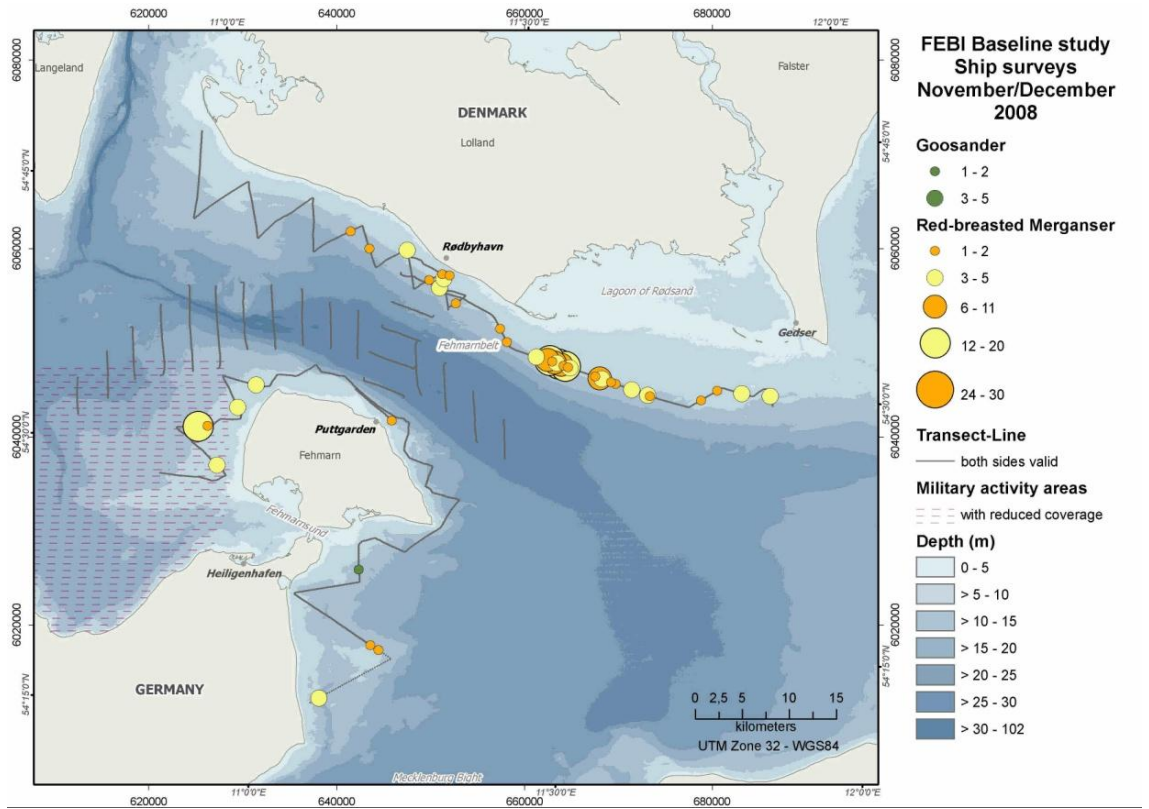


Figure 1.67 Red-breasted Merganser and Goosander distribution in the study area during ship-based surveys (November/December 2008).

FEHMARNBELT BIRDS

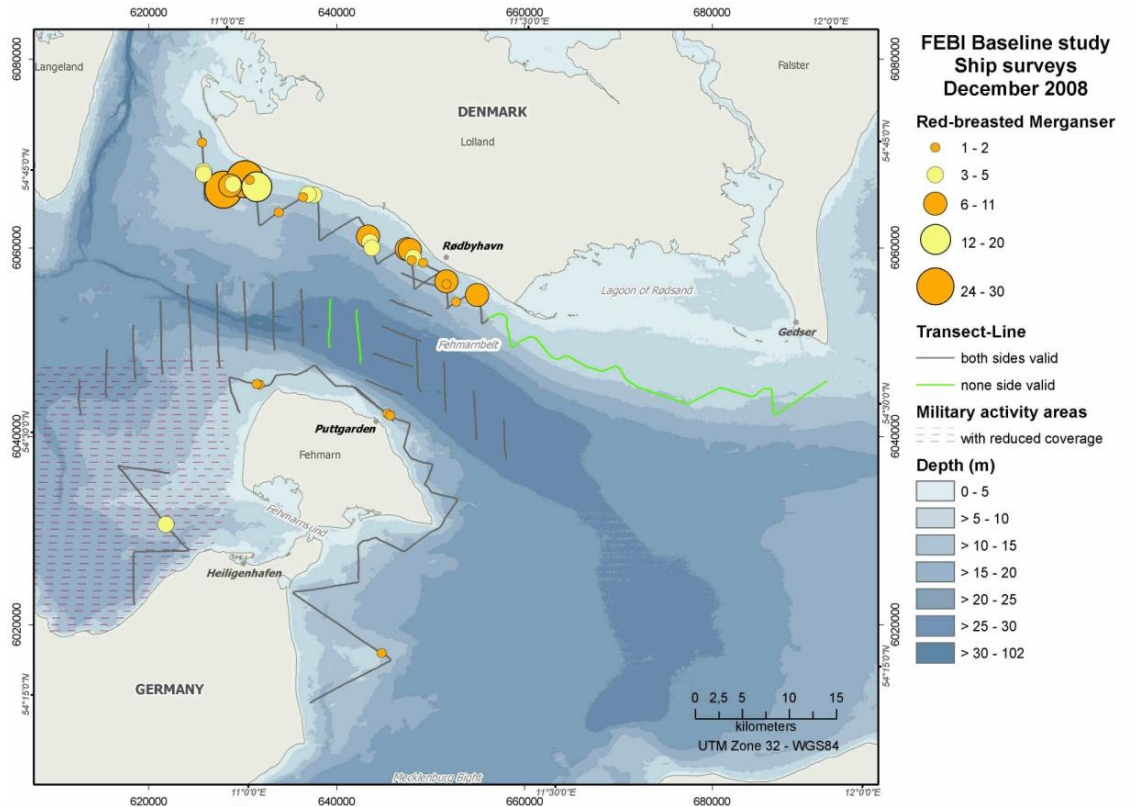


Figure 1.68 Red-breasted Merganser distribution in the study area during ship-based surveys (December 2008).

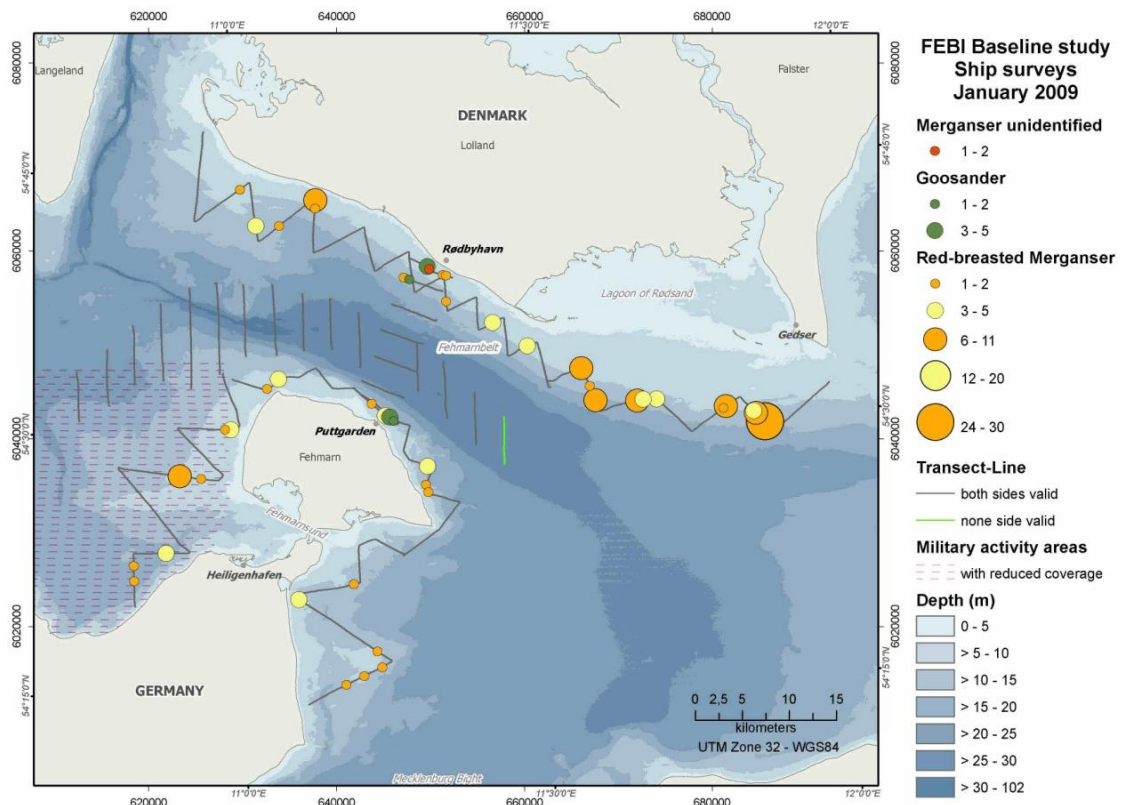


Figure 1.69 Merganser distribution in the study area during ship-based surveys (January 2009).

FEHMARNBELT BIRDS

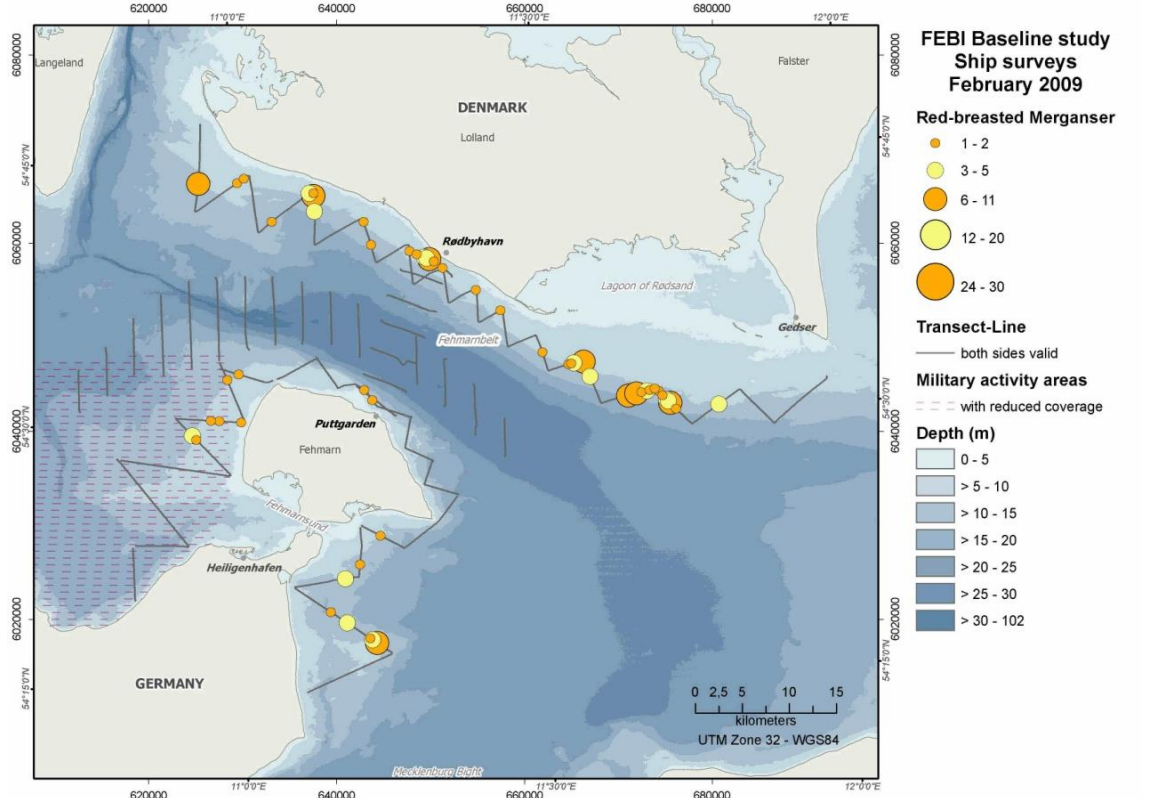


Figure 1.70 Red-breasted Merganser distribution in the study area during ship-based surveys (February 2009).

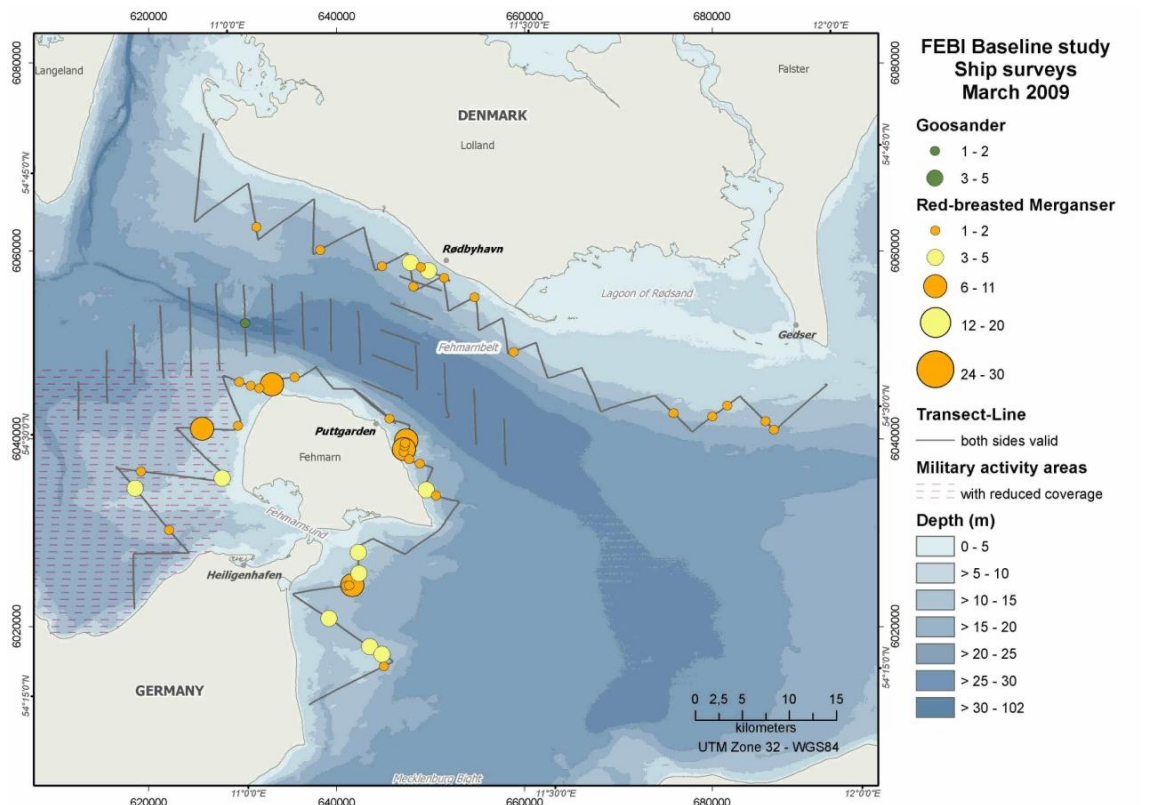


Figure 1.71 Red-breasted Merganser and Goosander distribution in the study area during ship-based surveys (March 2009).

FEHMARNBELT BIRDS

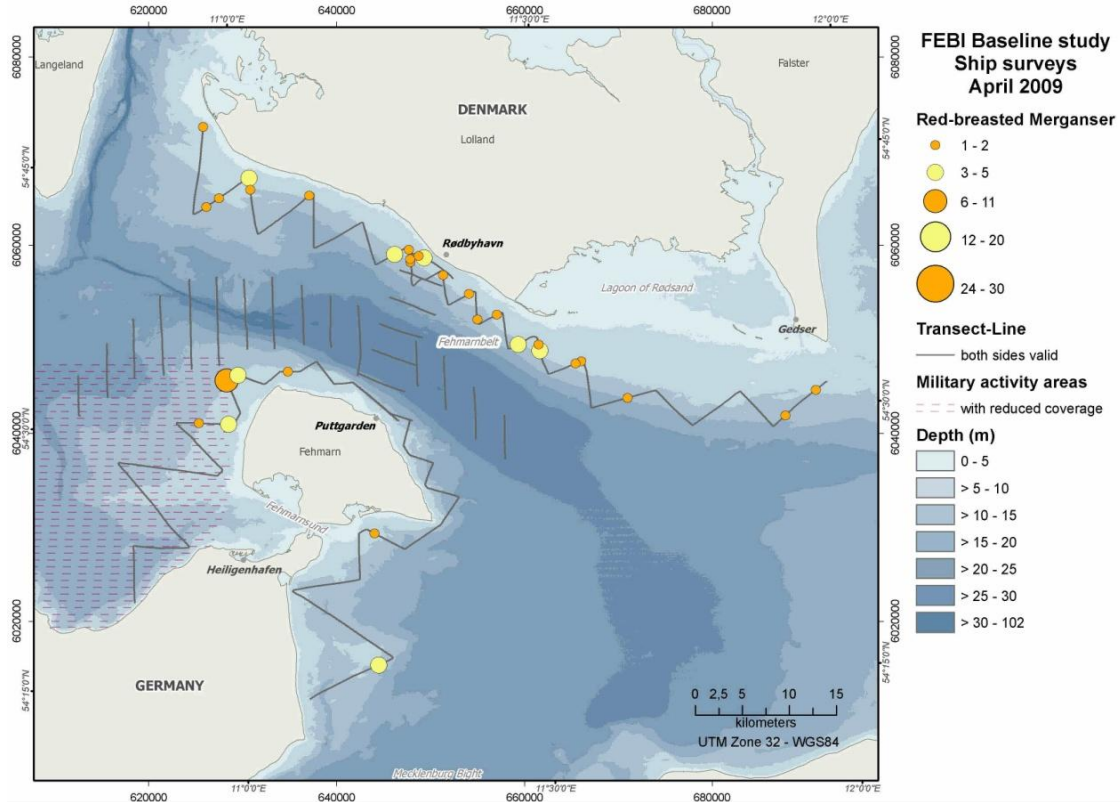


Figure 1.72 Red-breasted Merganser distribution in the study area during ship-based surveys (April 2009).

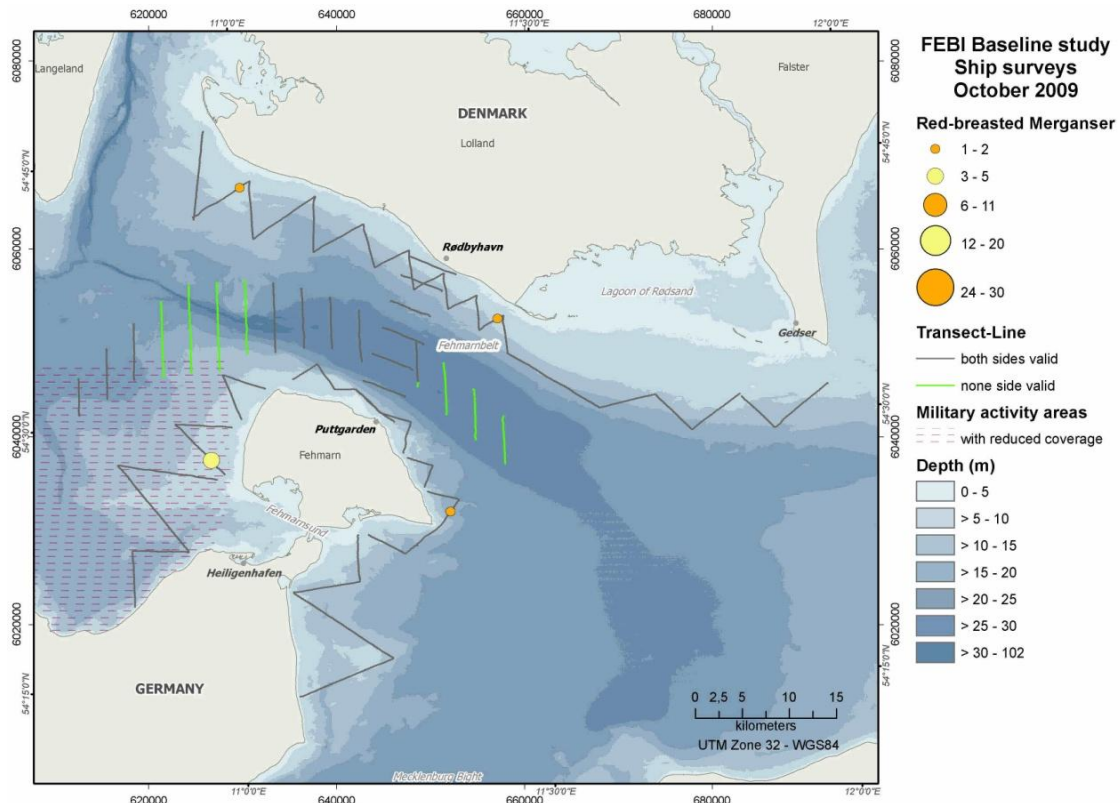


Figure 1.73 Red-breasted Merganser distribution in the study area during ship-based surveys (October 2009).

FEHMARNBELT BIRDS

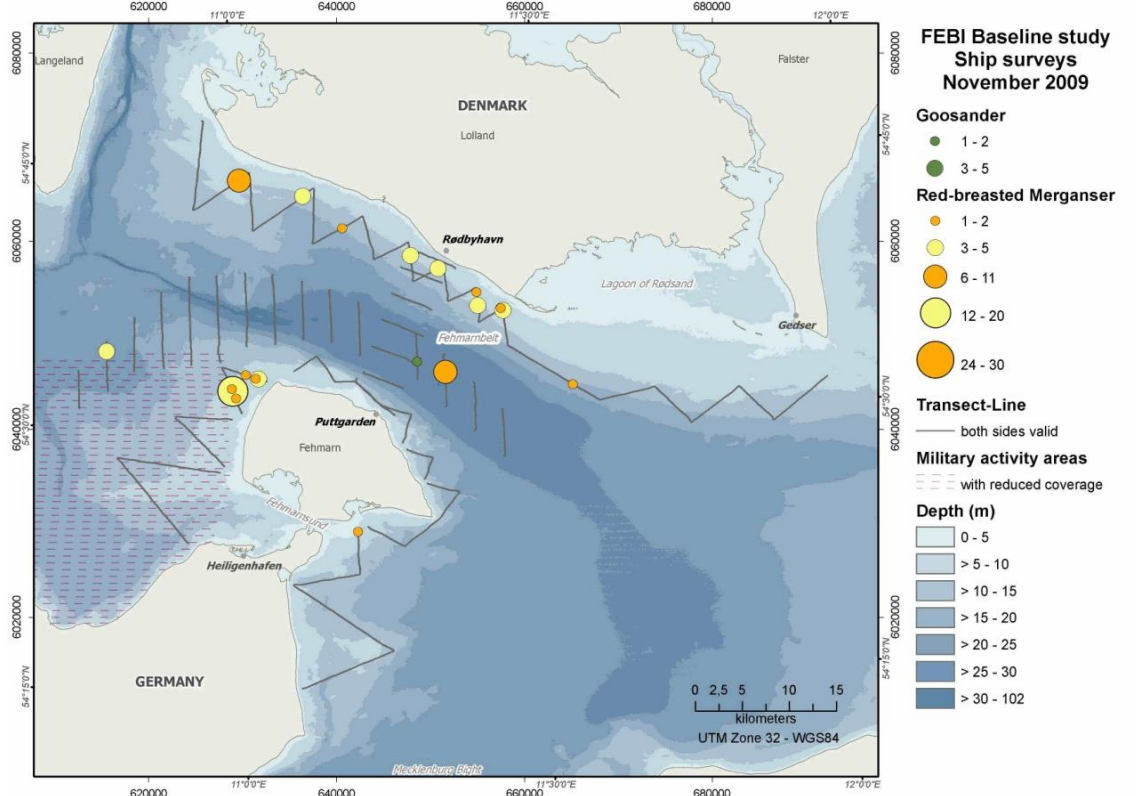


Figure 1.74 Red-breasted Merganser and Goosander distribution in the study area during ship-based surveys (November 2009).

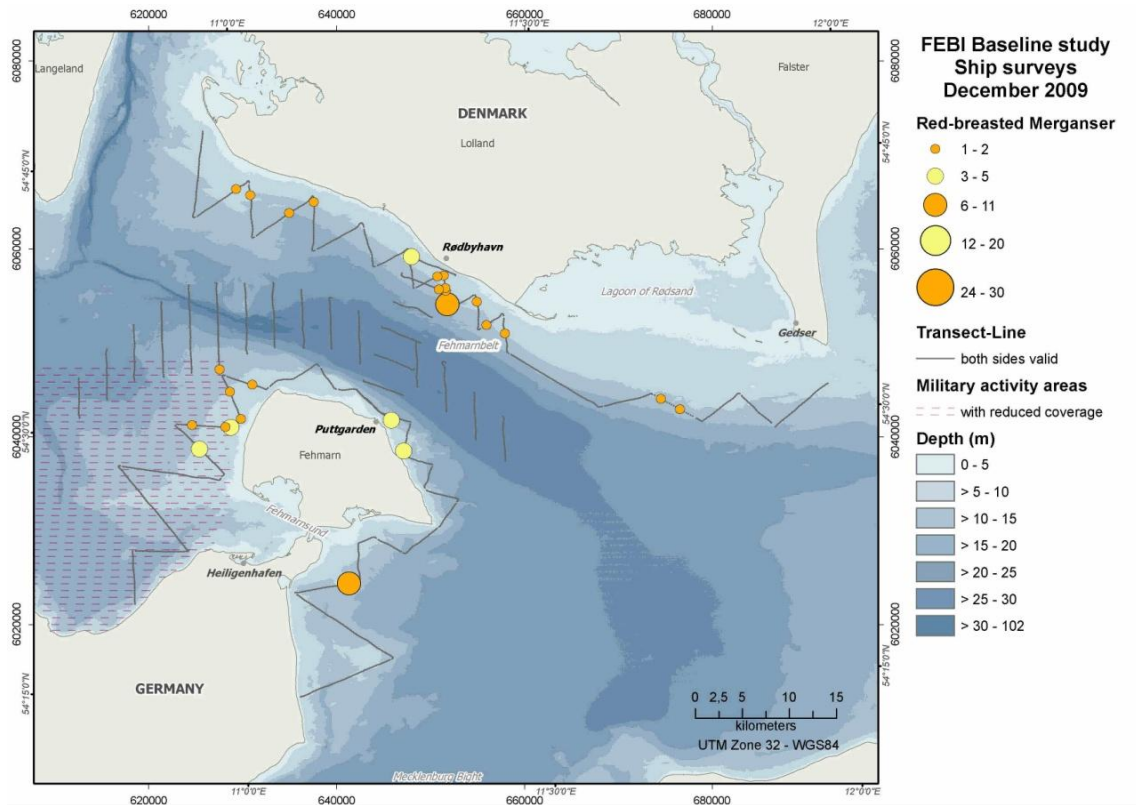


Figure 1.75 Red-breasted Merganser distribution in the study area during ship-based surveys (December 2009).

1.1.8 Little Gull – *Larus minutus*

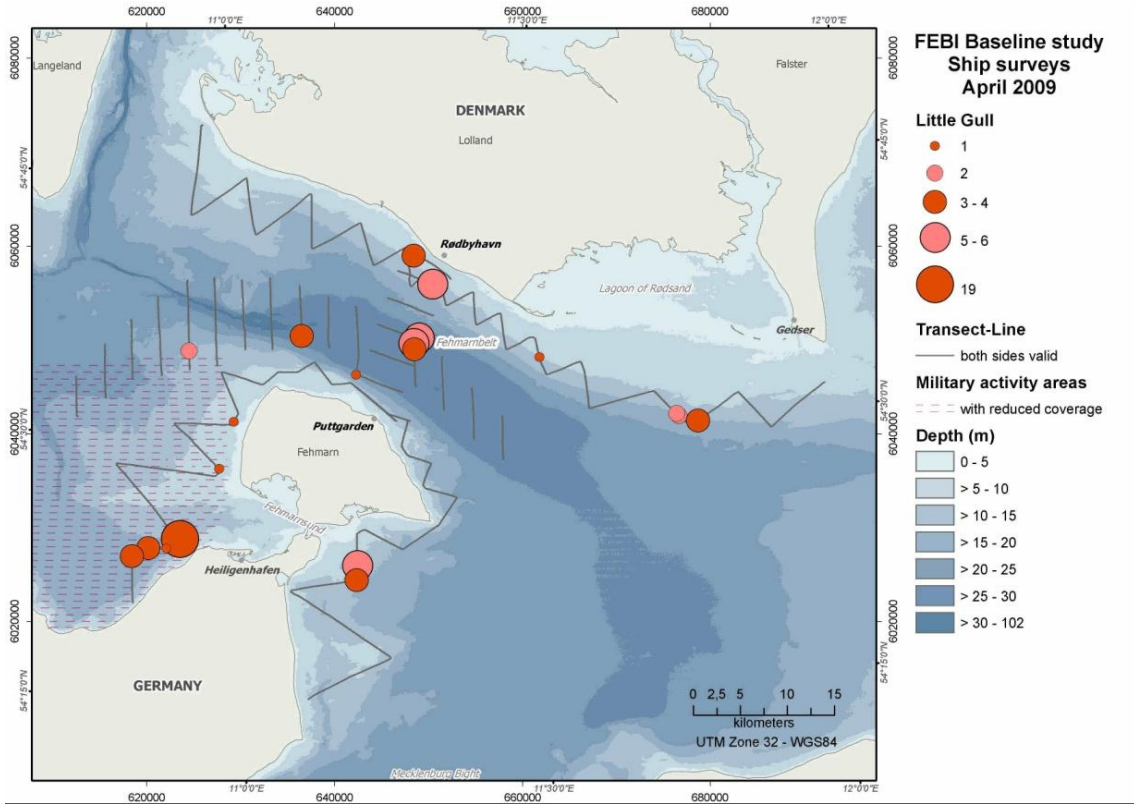


Figure 1.76 Little Gull distribution in the study area during ship-based surveys (April 2009).

1.1.9 Black-headed Gull / Common Gull – *Larus ridibundus* / *Larus canus*

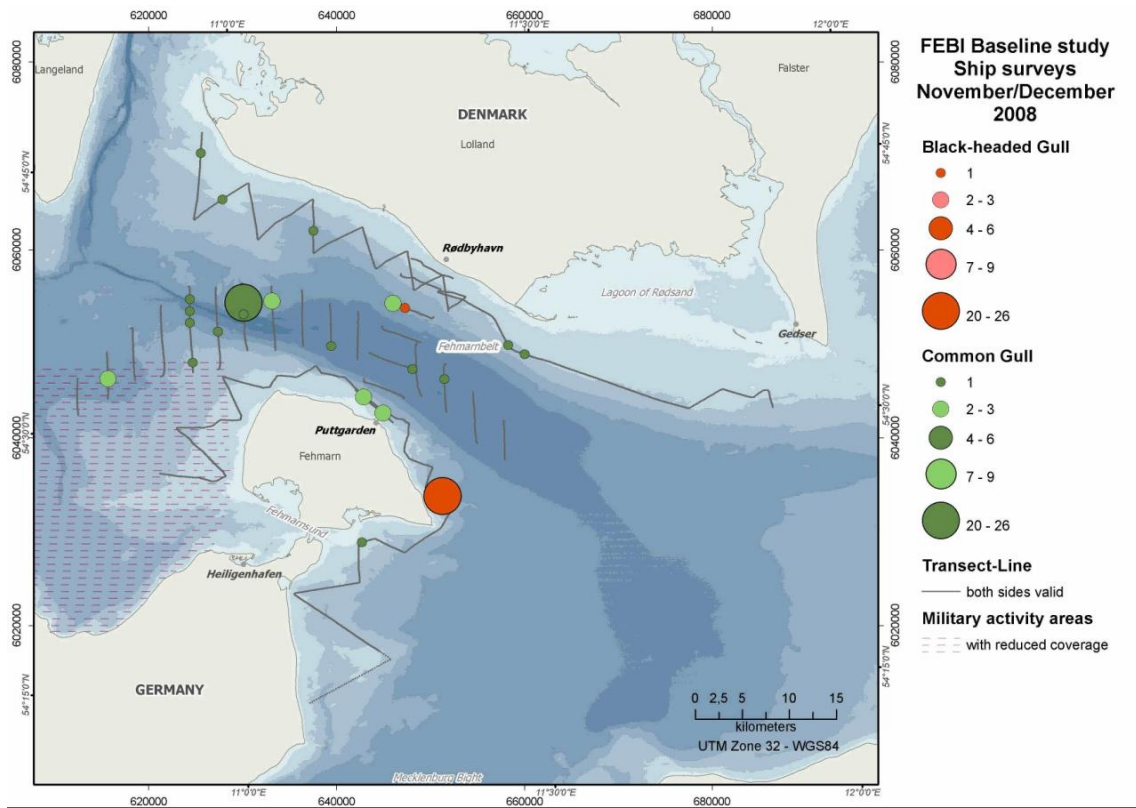


Figure 1.79 Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (November/December 2008).

FEHMARNBELT BIRDS

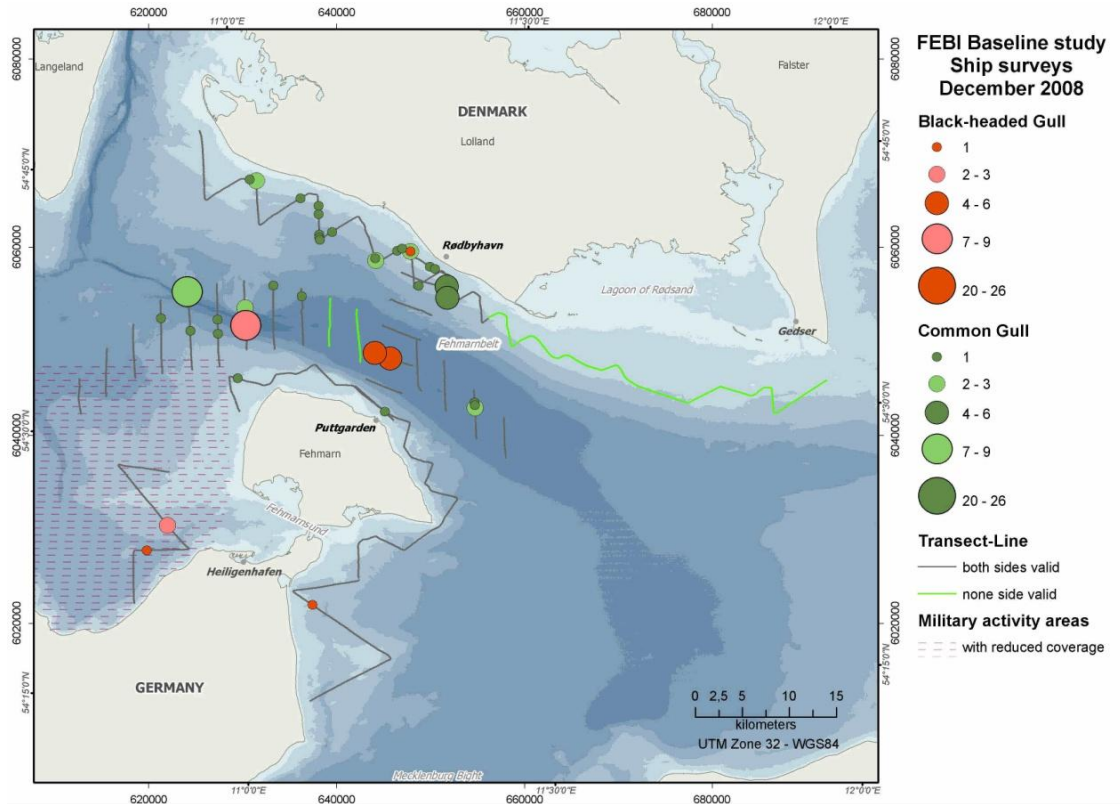


Figure 1.80 Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (December 2008).

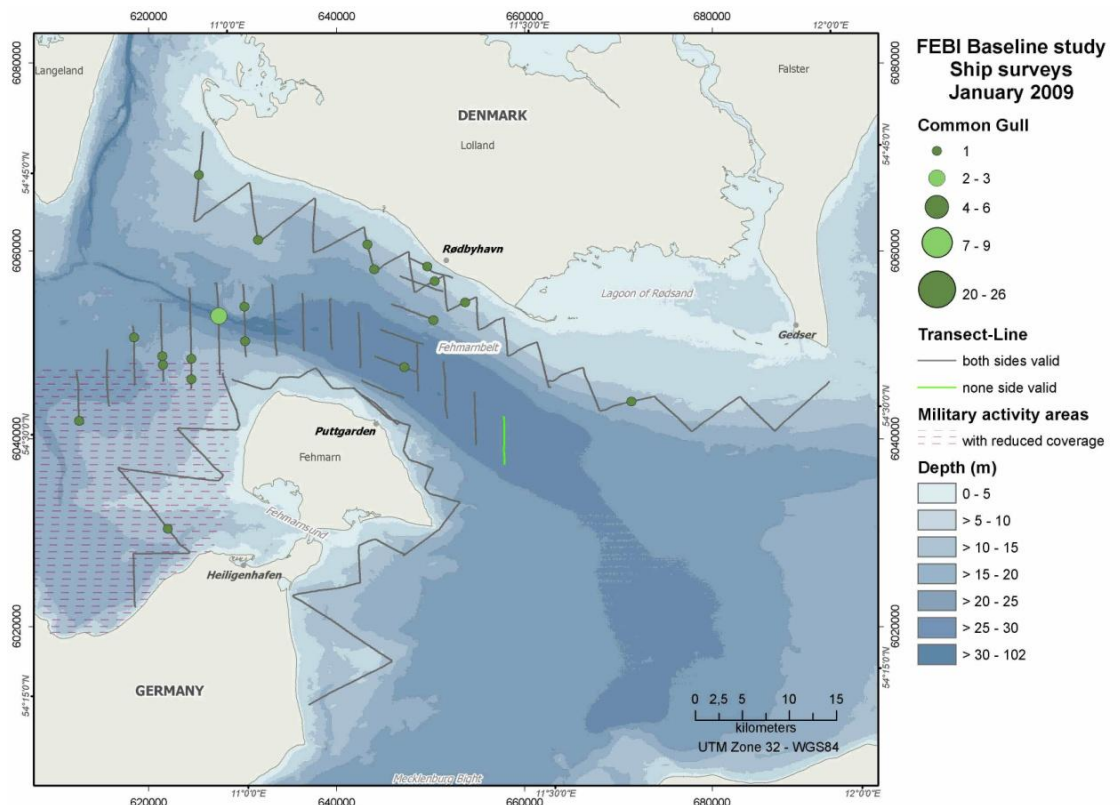


Figure 1.81 Common Gull distribution in the study area during ship-based surveys (January 2009).

FEHMARNBELT BIRDS

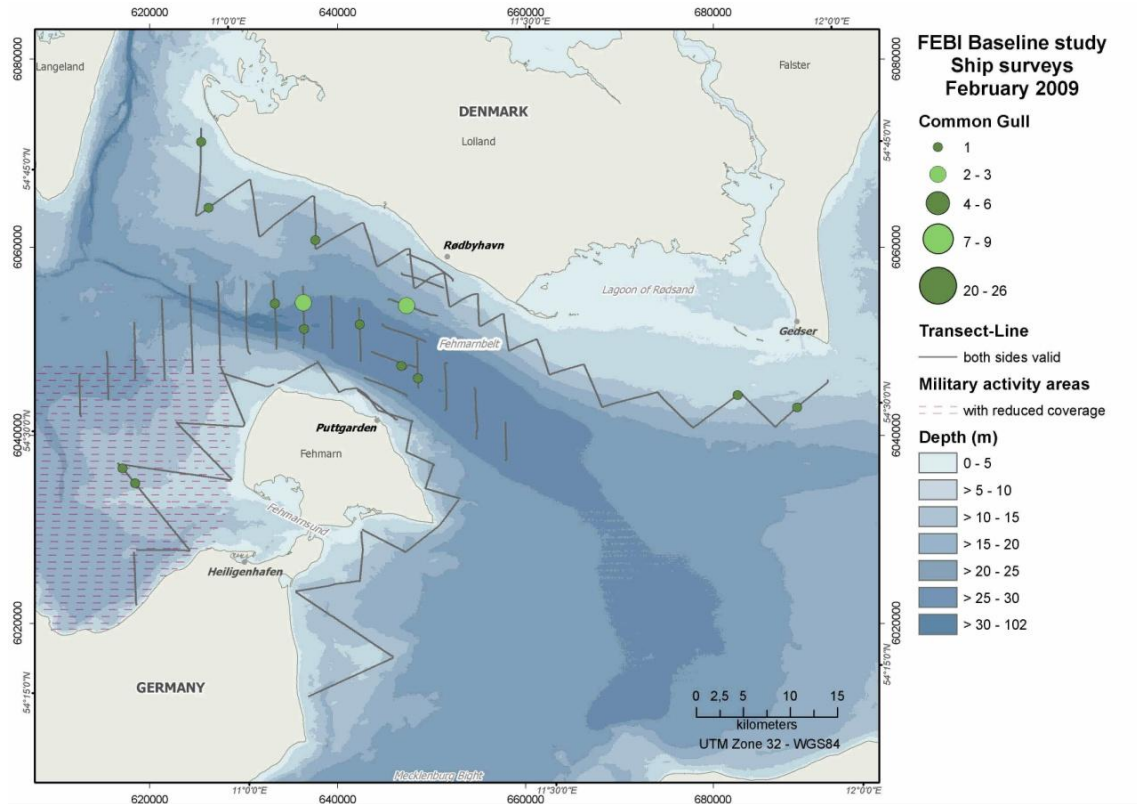


Figure 1.82 Common Gull distribution in the study area during ship-based surveys (February 2009).

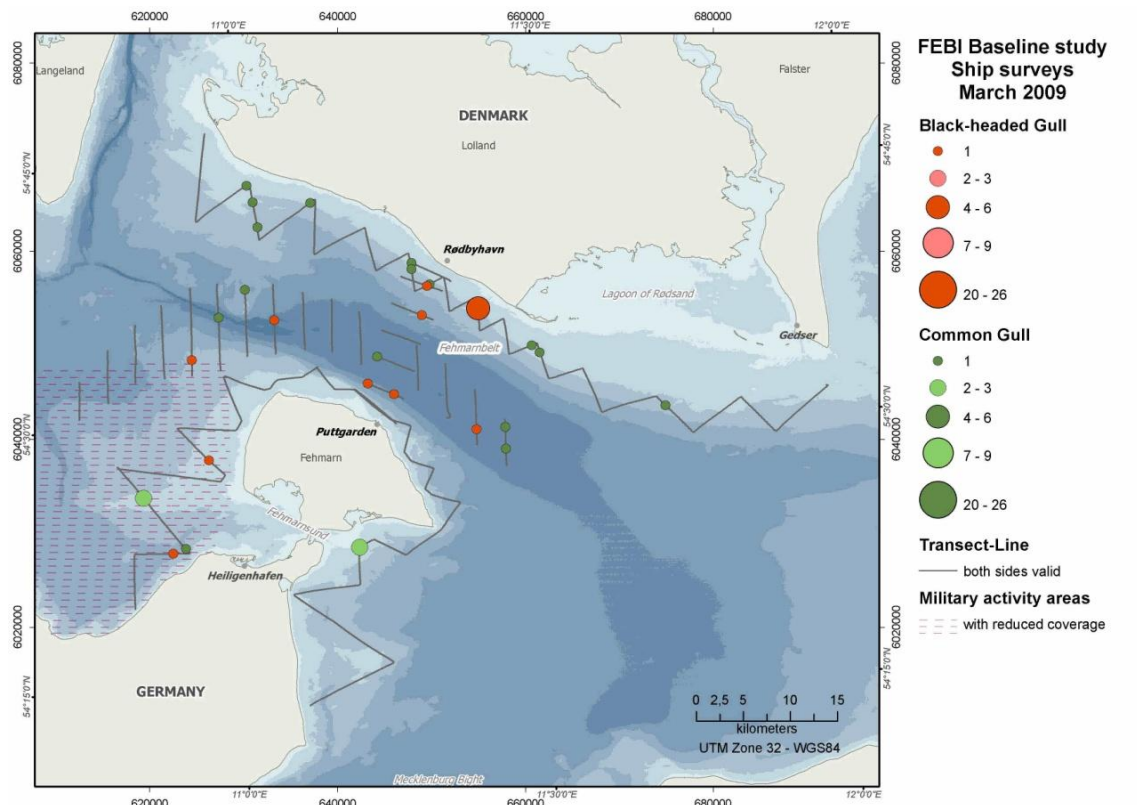


Figure 1.83 Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (March 2009).

FEHMARNBELT BIRDS

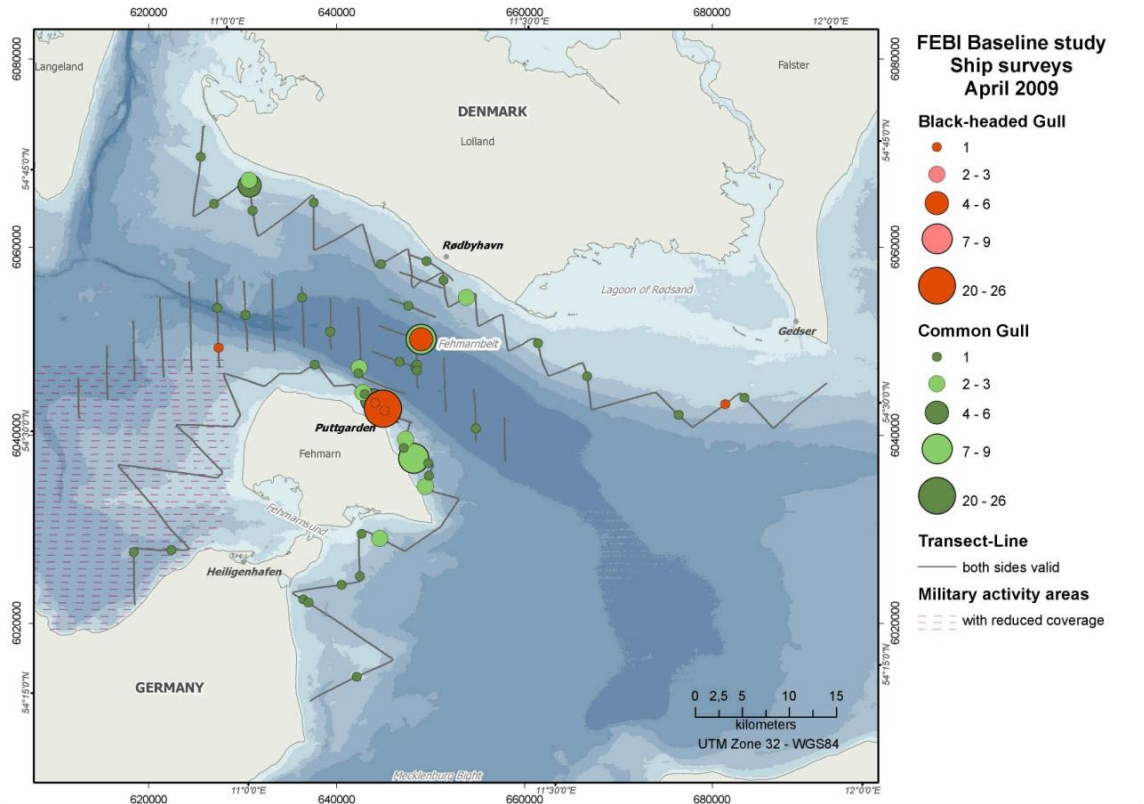


Figure 1.84 Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (April 2009).

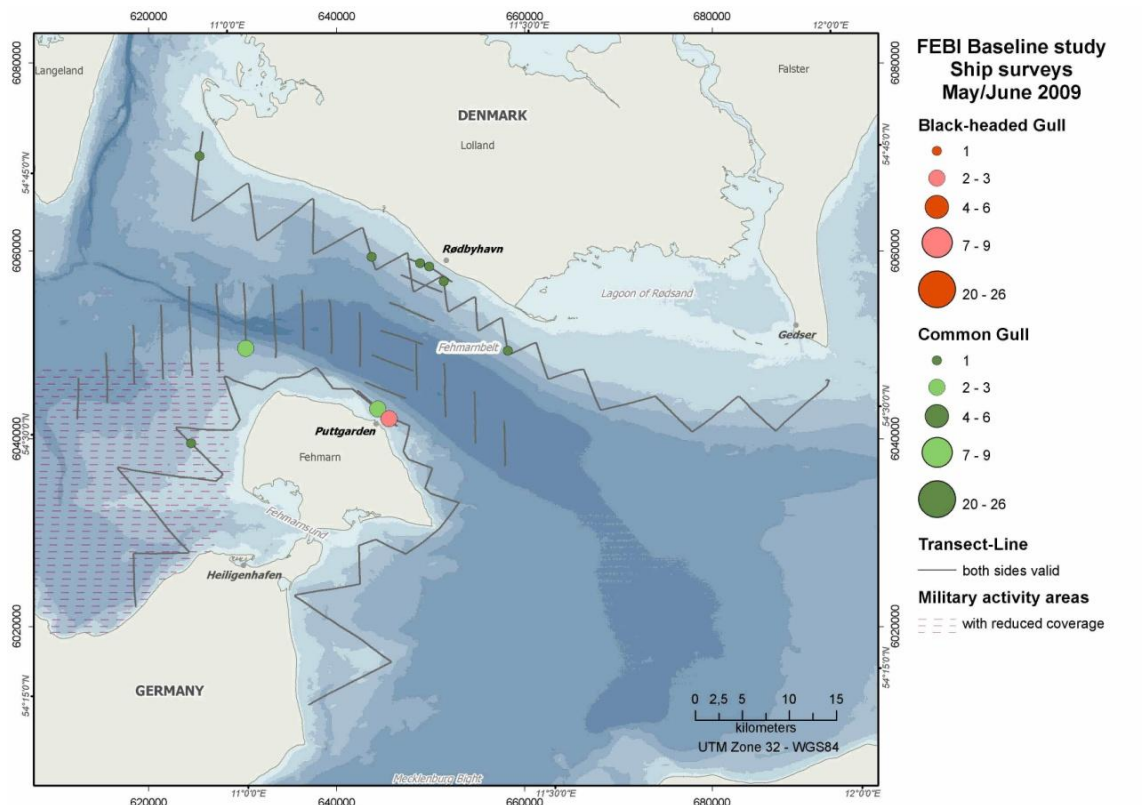


Figure 1.85 Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (May/June 2009).

FEHMARNBELT BIRDS

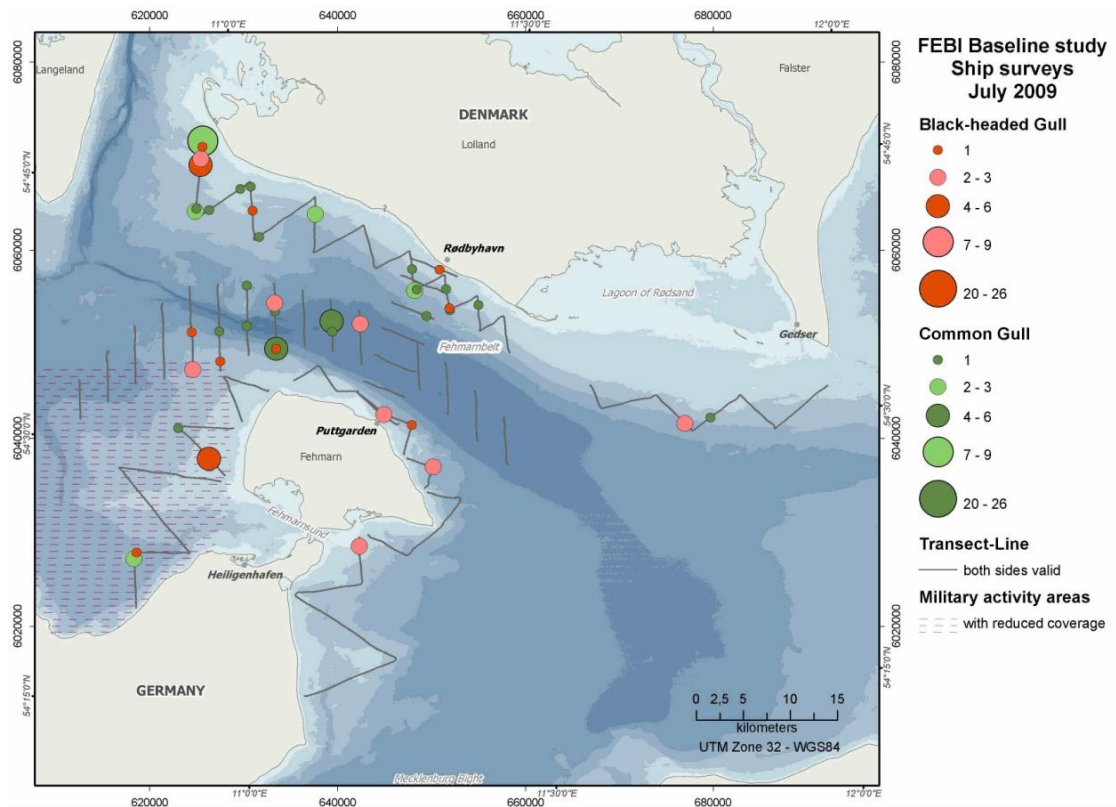


Figure 1.86 Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (July 2009).

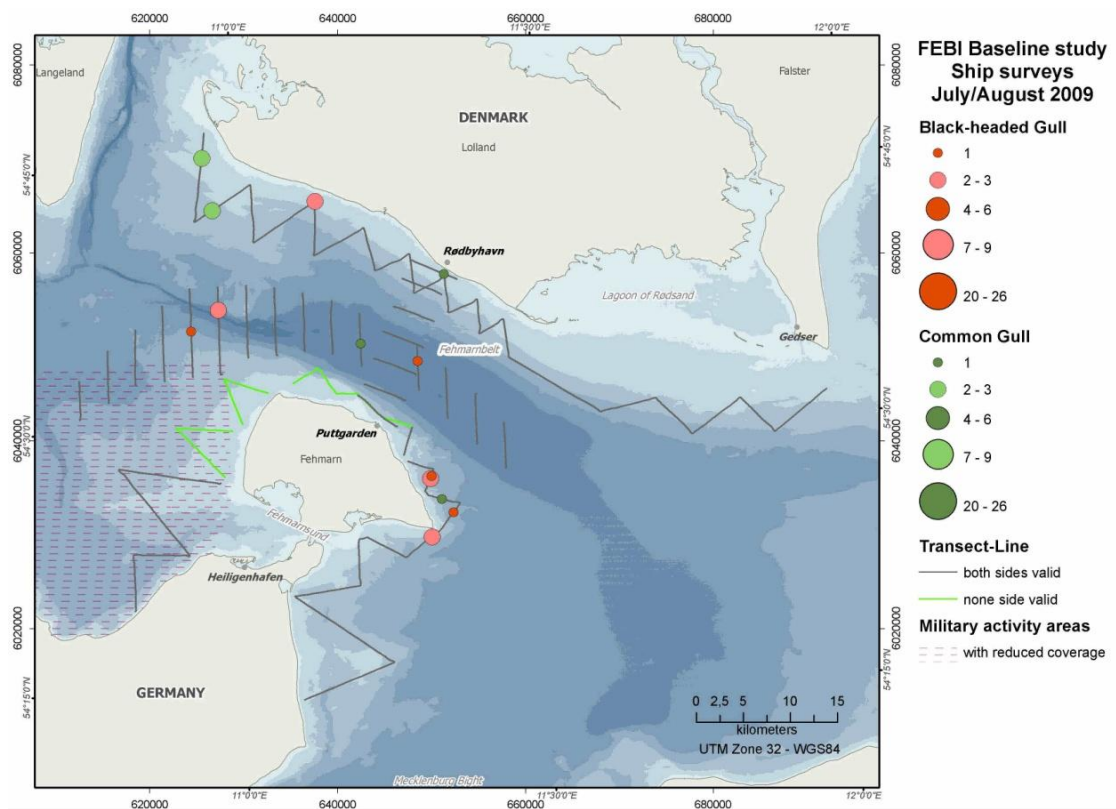


Figure 1.87 Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (July/August 2009).

FEHMARNBELT BIRDS

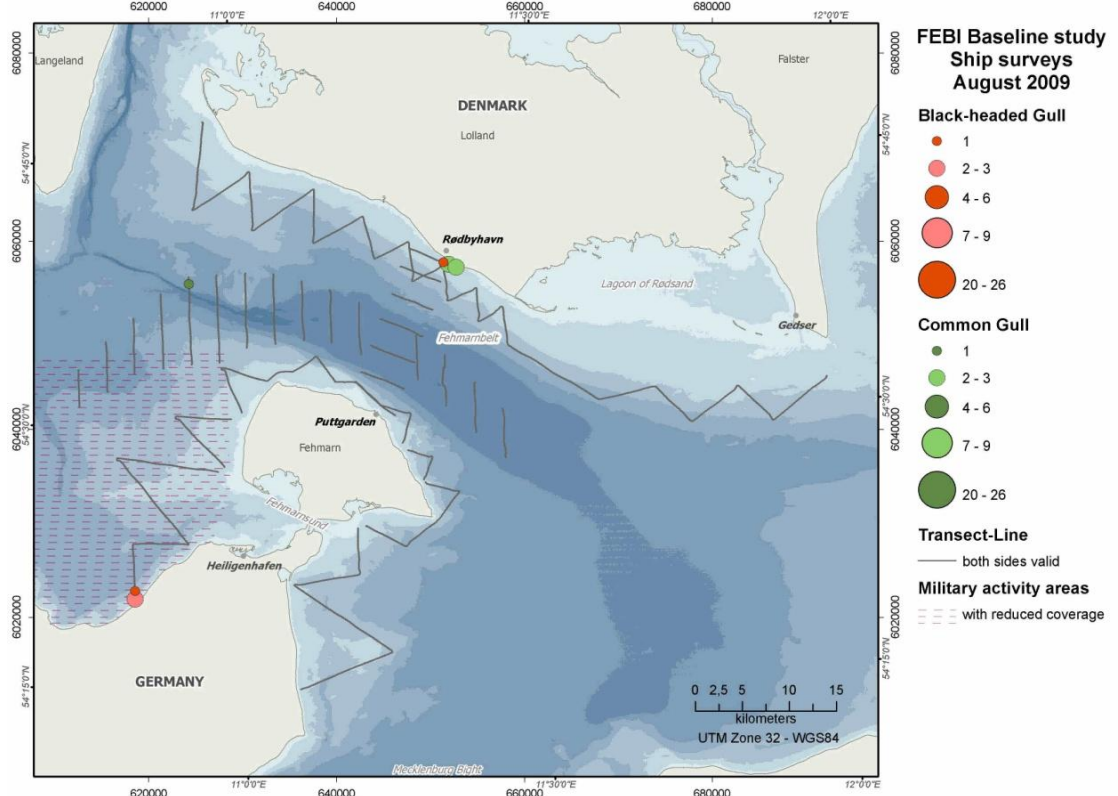


Figure 1.88 Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (August 2009).

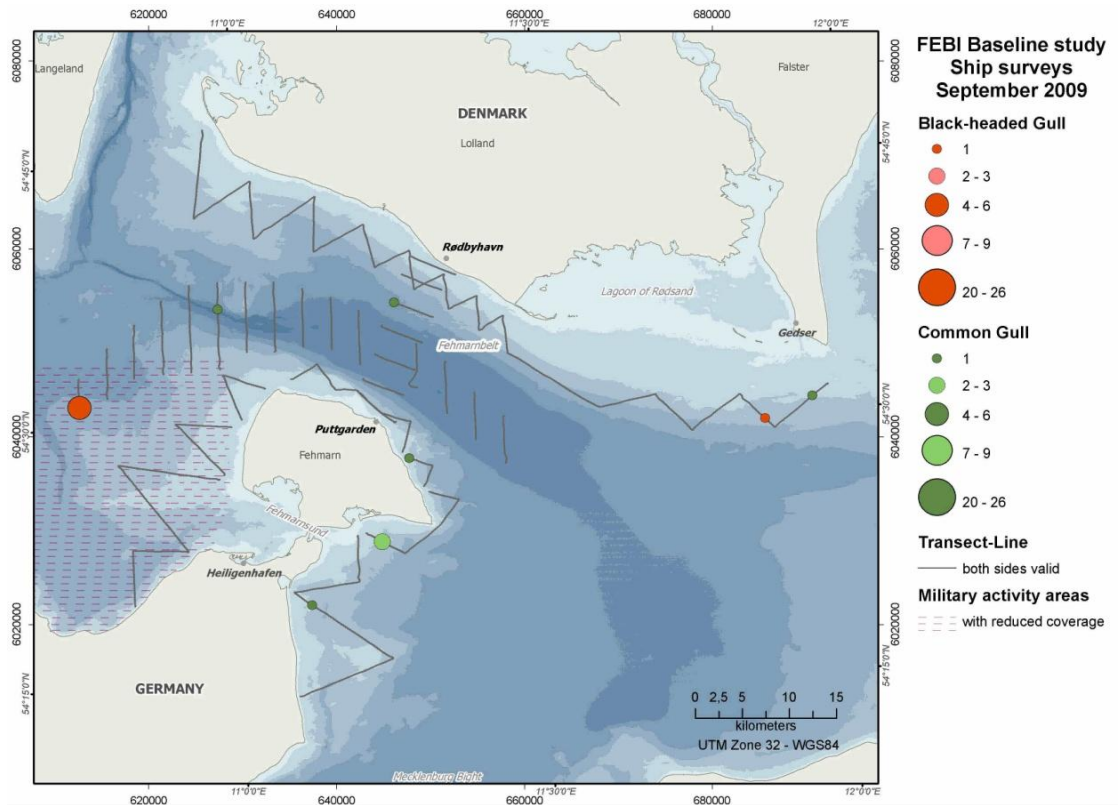


Figure 1.89 Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (September 2009).

FEHMARNBELT BIRDS

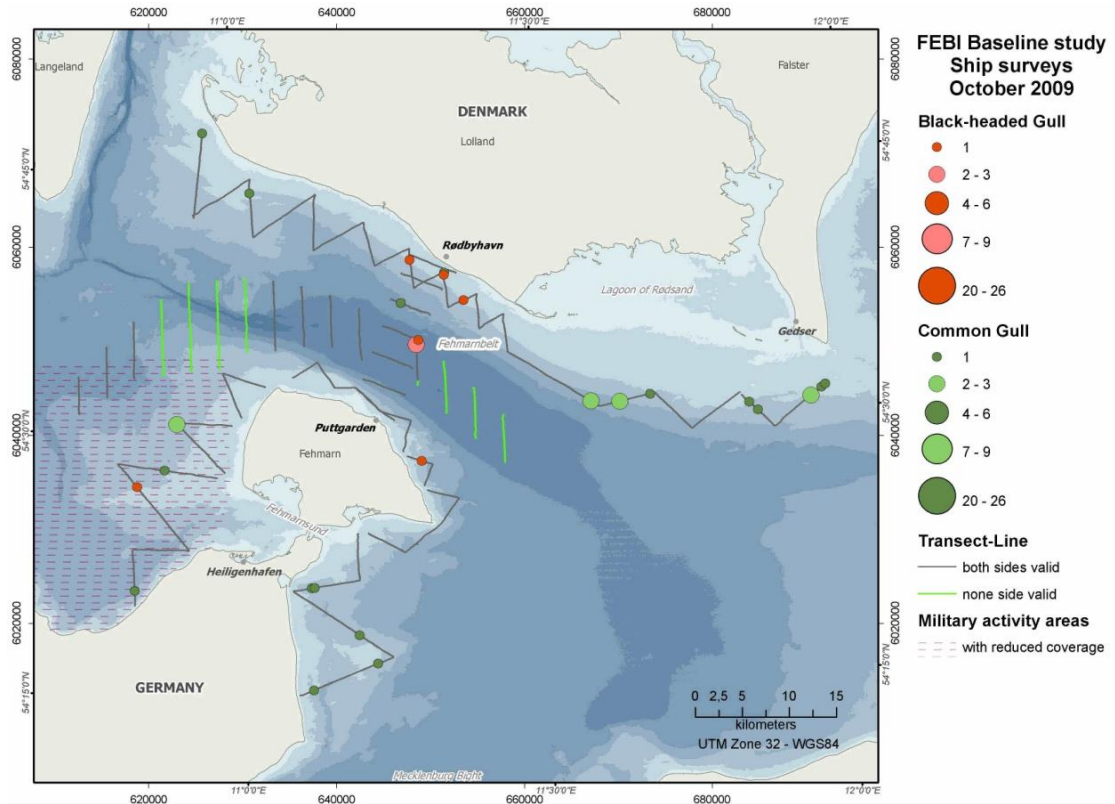


Figure 1.90 Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (October 2009).

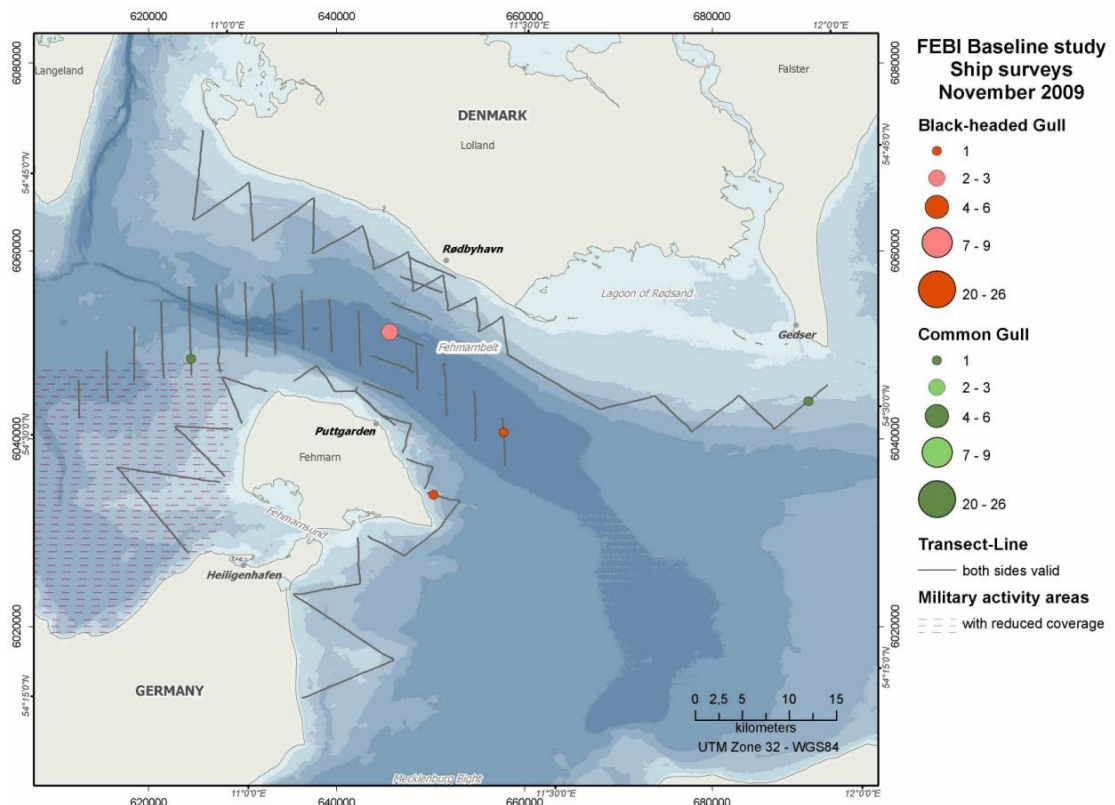


Figure 1.91 Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (November 2009).

FEHMARNBELT BIRDS

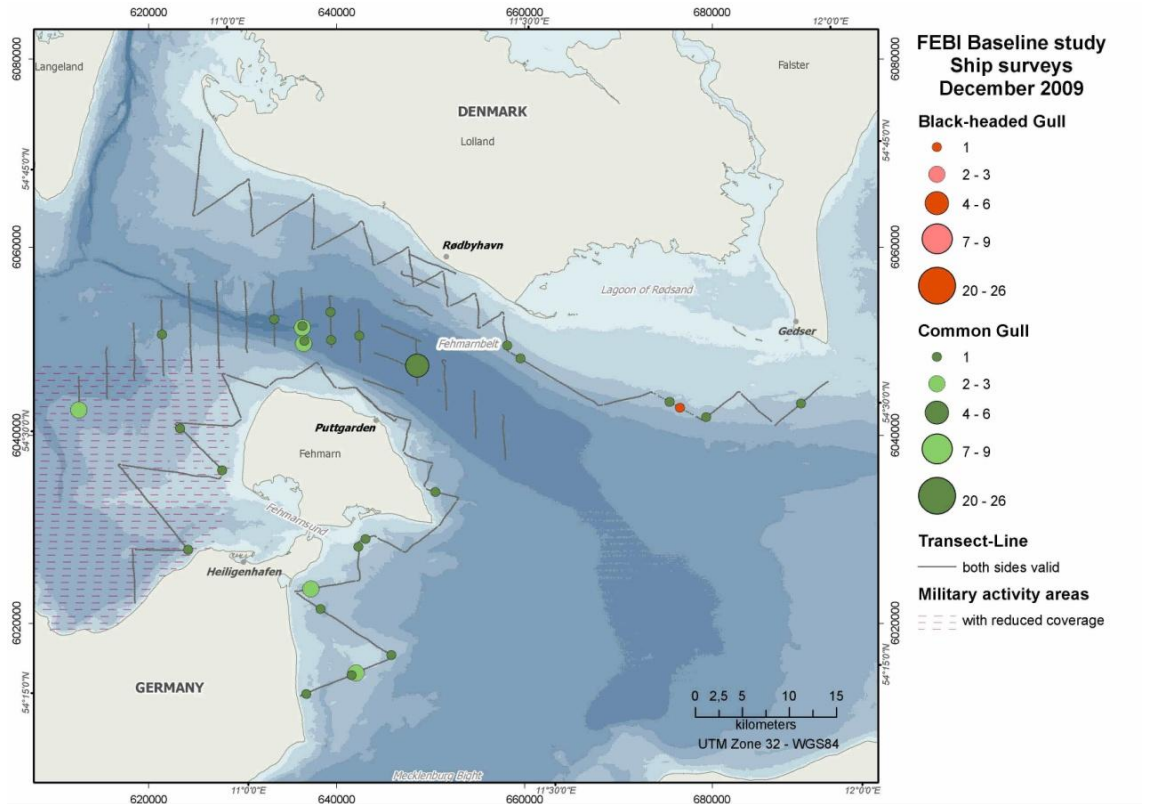


Figure 1.92 Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (December 2009).

1.1.21 Herring Gull/ Great Black-backed Gull – *Larus argentatus* / *Larus marinus*

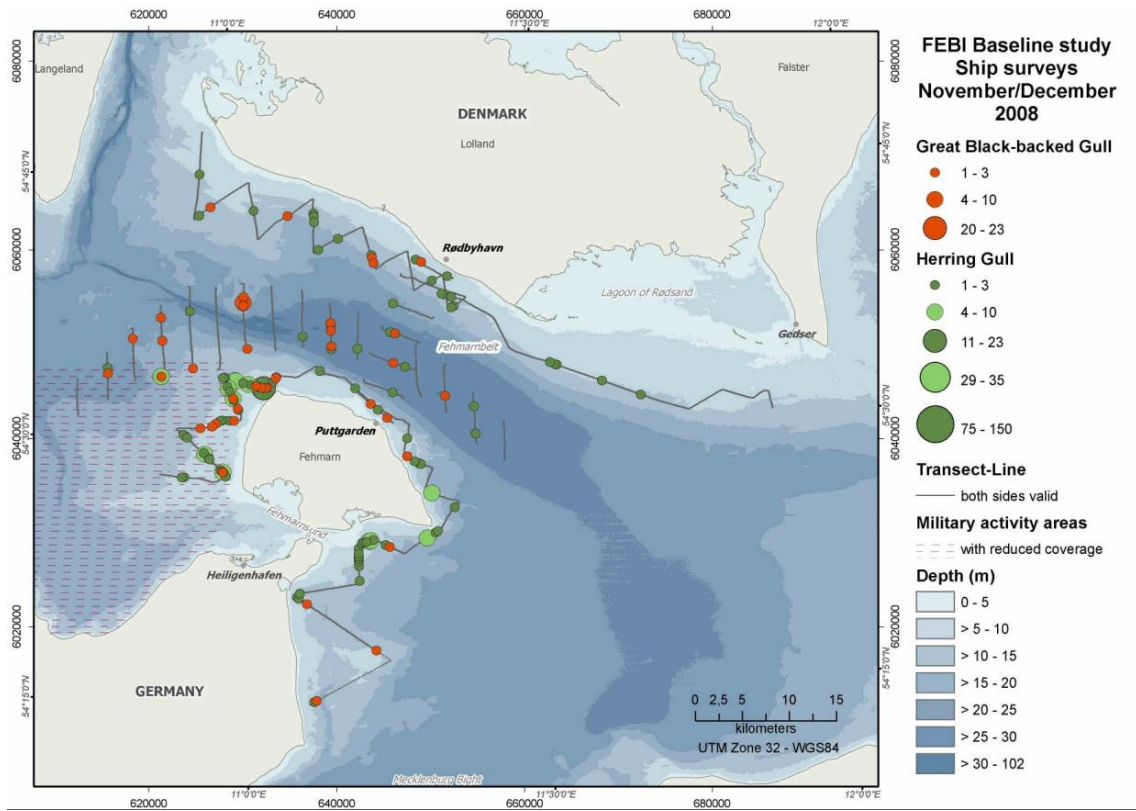


Figure 1.93 Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (November/December 2008).

FEHMARNBELT BIRDS

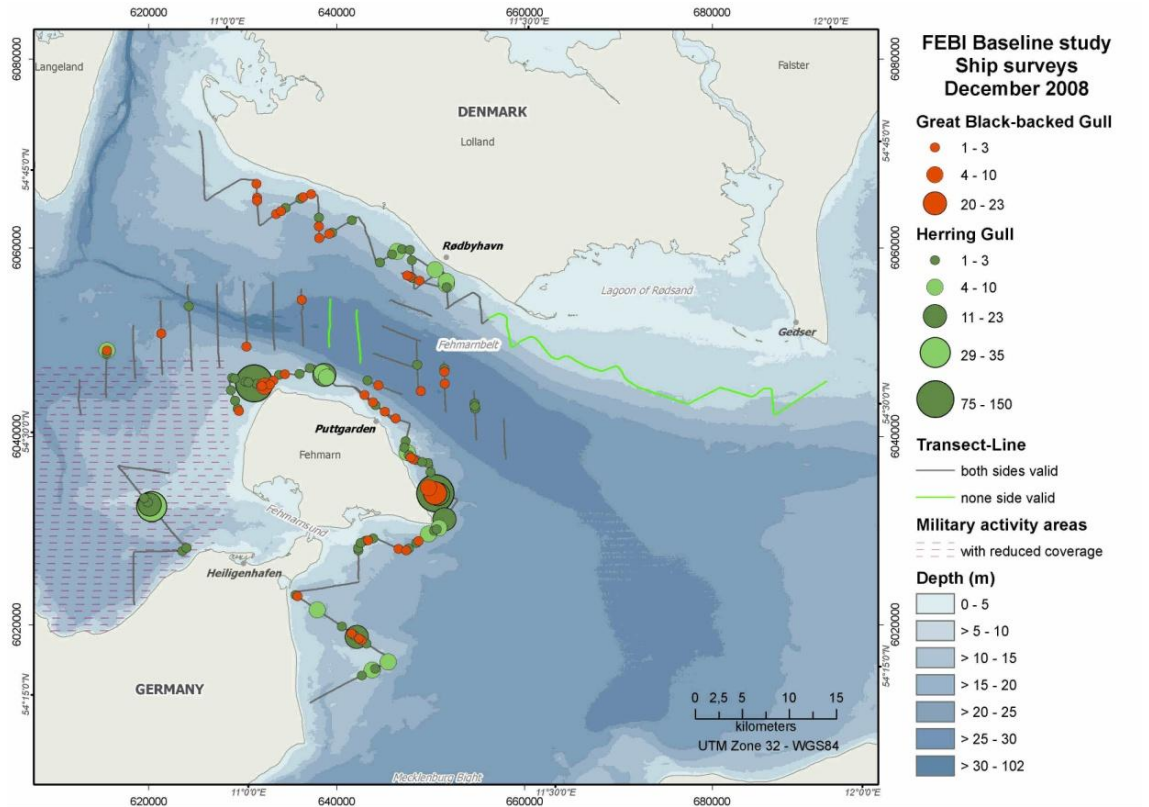


Figure 1.94 Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (December 2008).

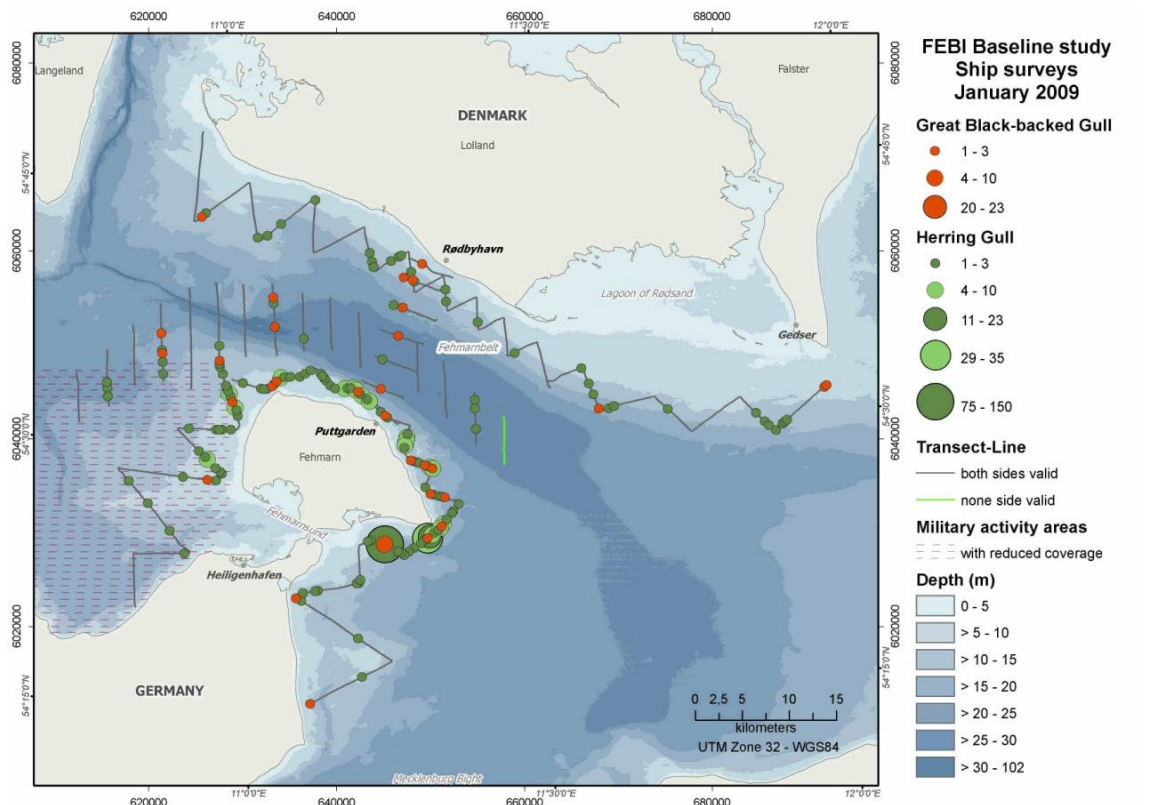


Figure 1.95 Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (January 2009).

FEHMARNBELT BIRDS

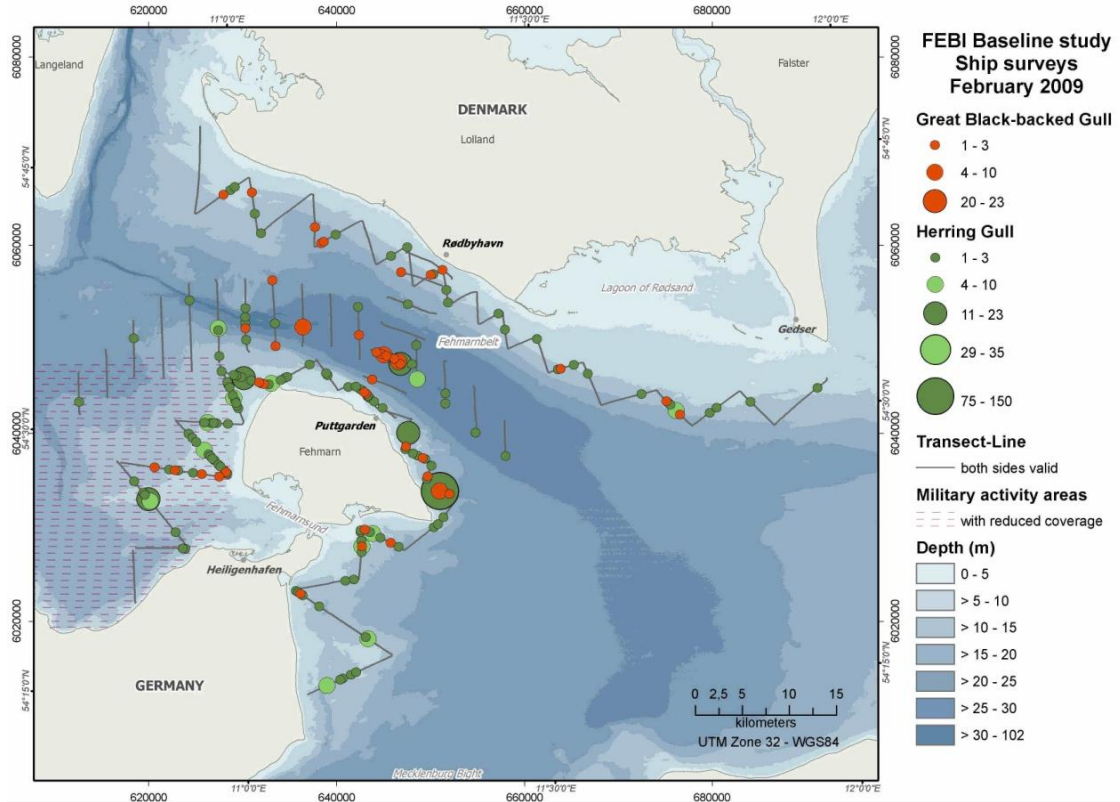


Figure 1.96 Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (February 2009).

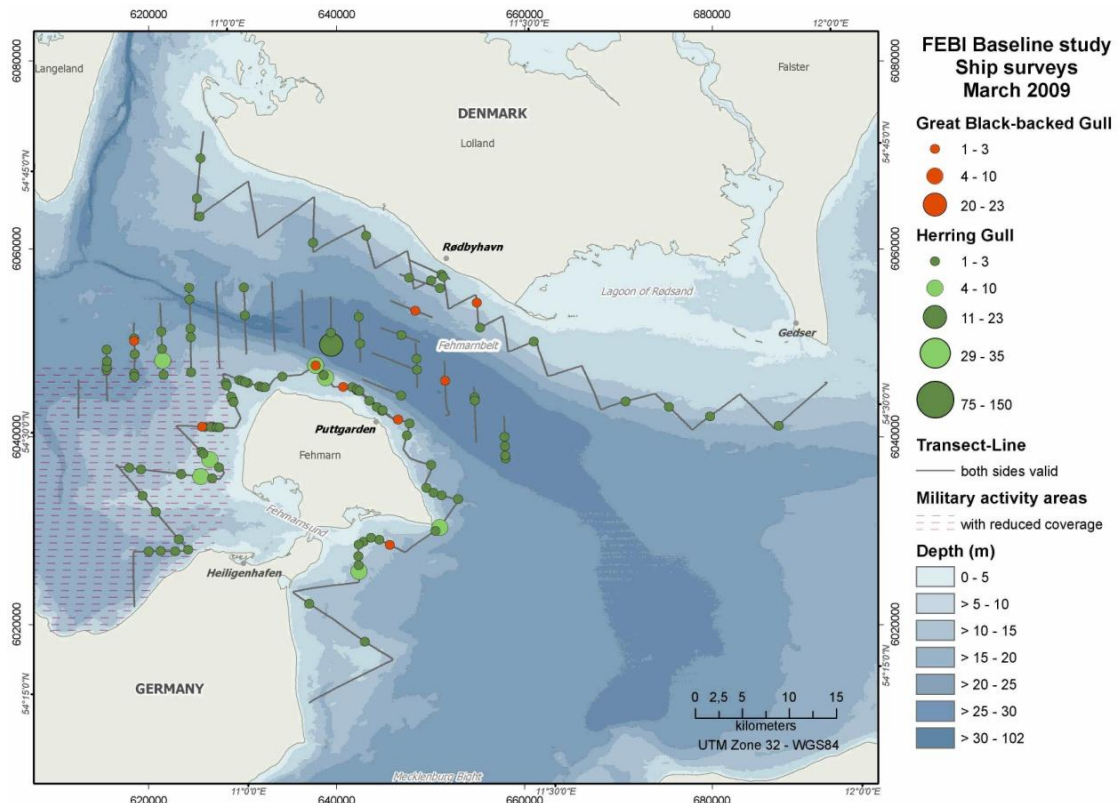


Figure 1.97 Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (March 2009).

FEHMARNBELT BIRDS

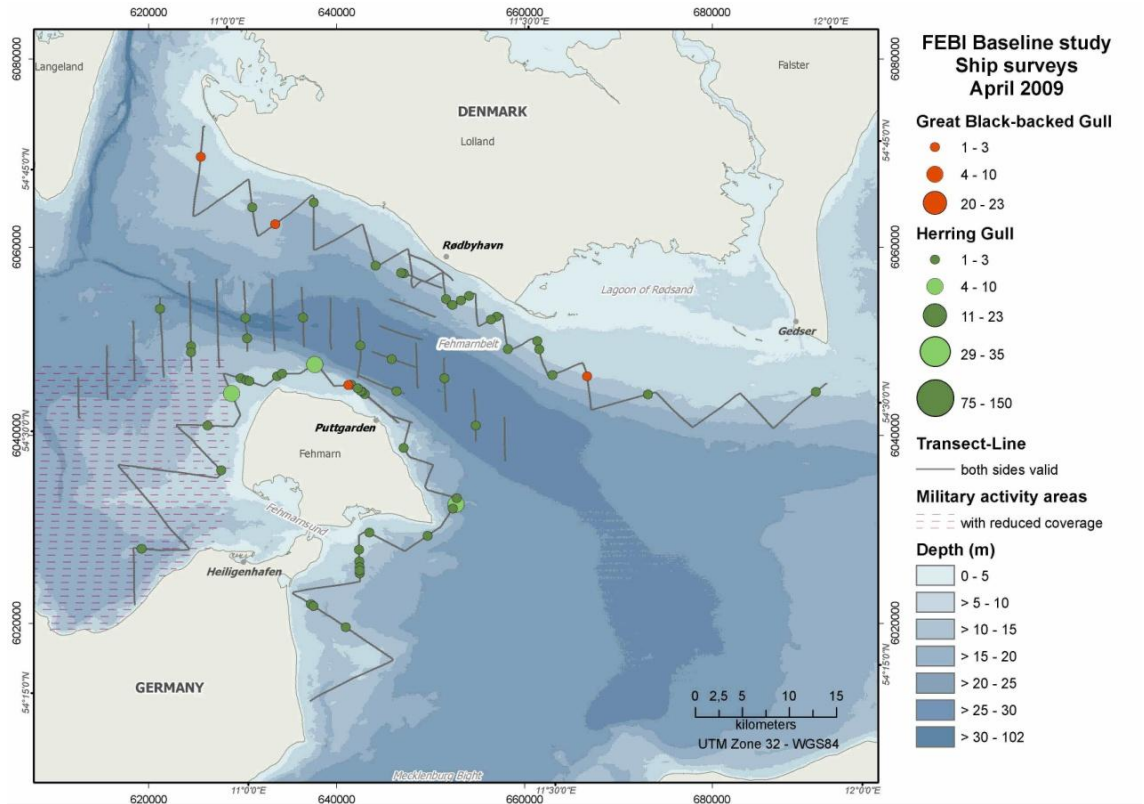


Figure 1.98 Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (April 2009).

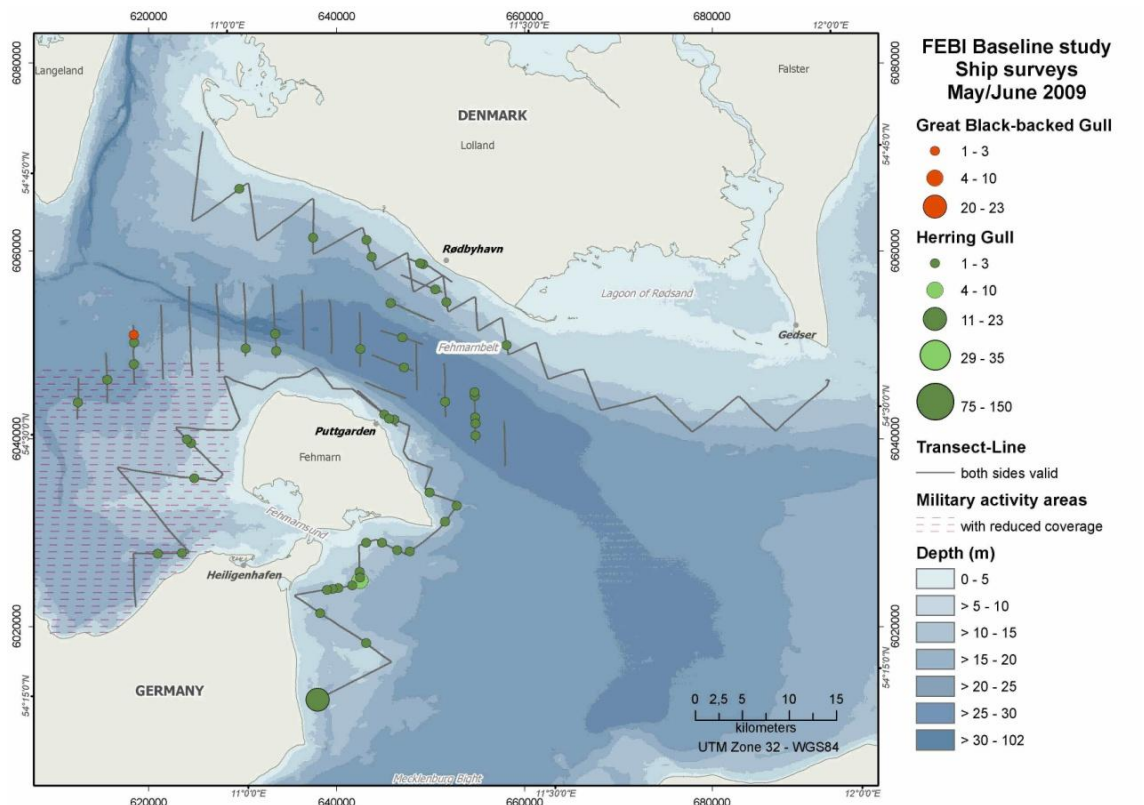


Figure 1.99 Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (May/June 2009).

FEHMARNBELT BIRDS

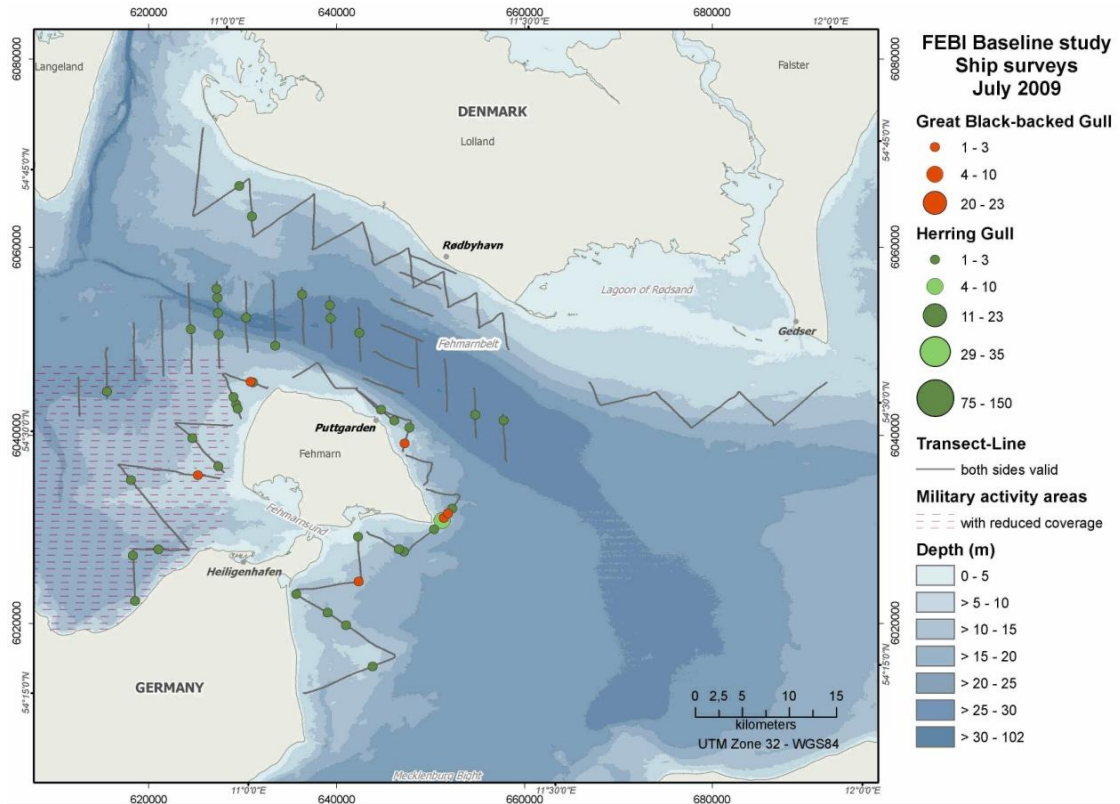


Figure 1.100 Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (July 2009).

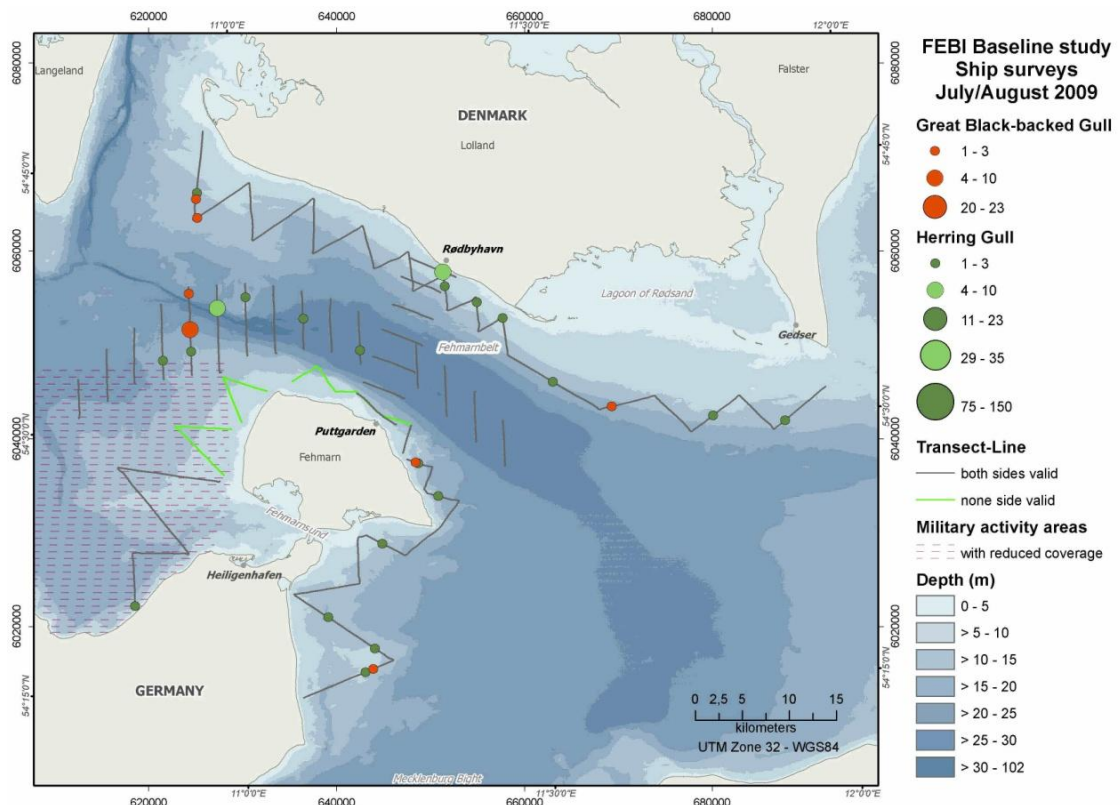


Figure 1.101 Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (July/August 2009).

FEHMARNBELT BIRDS

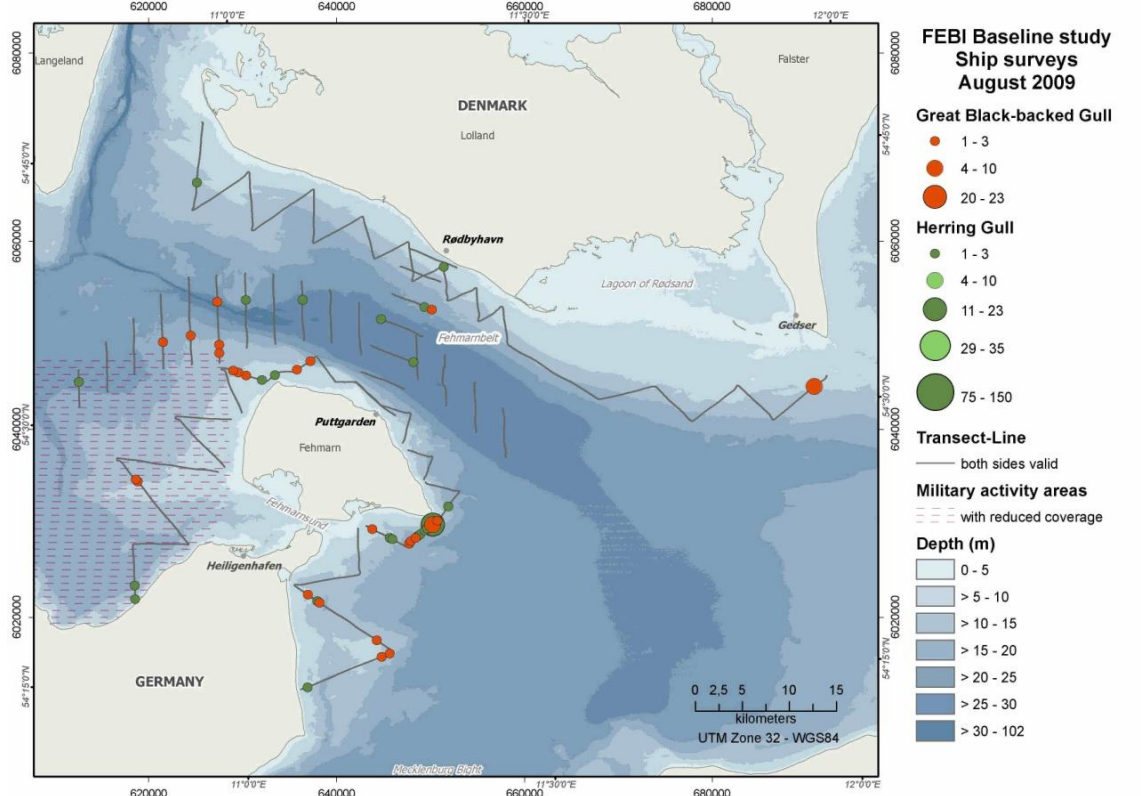


Figure 1.102 Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (August 2009).

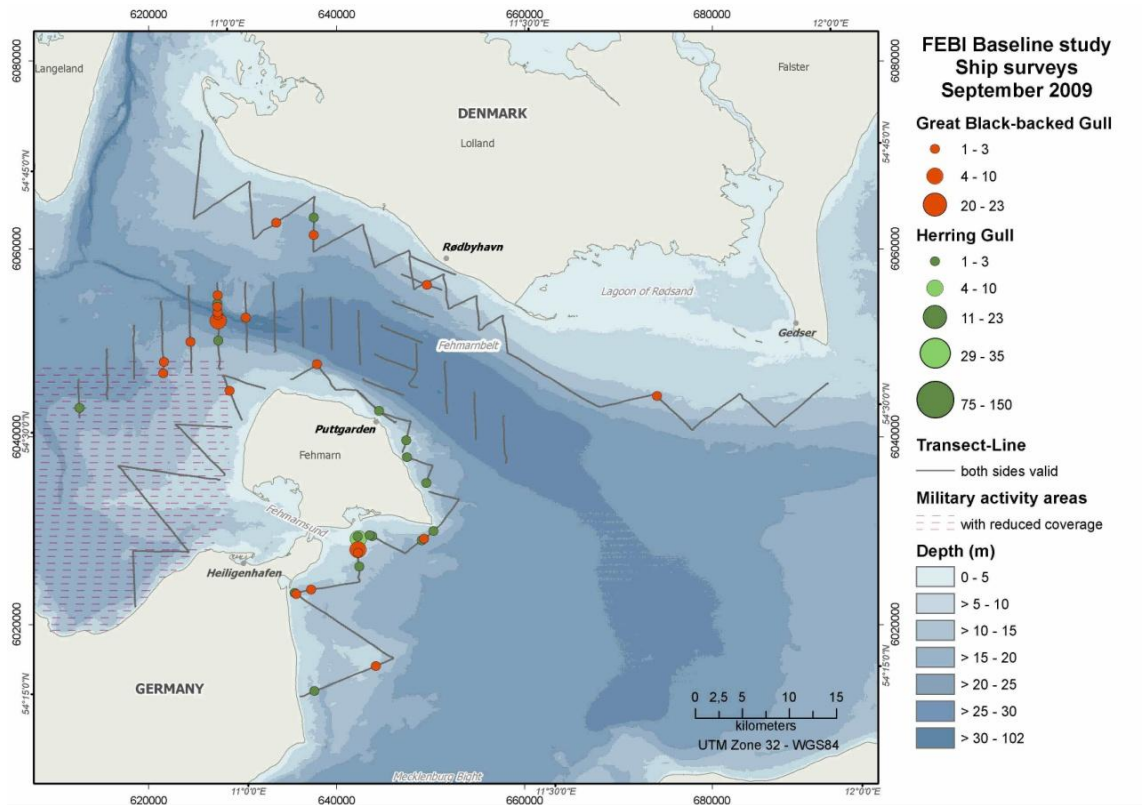


Figure 1.103 Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (September 2009).

FEHMARNBELT BIRDS

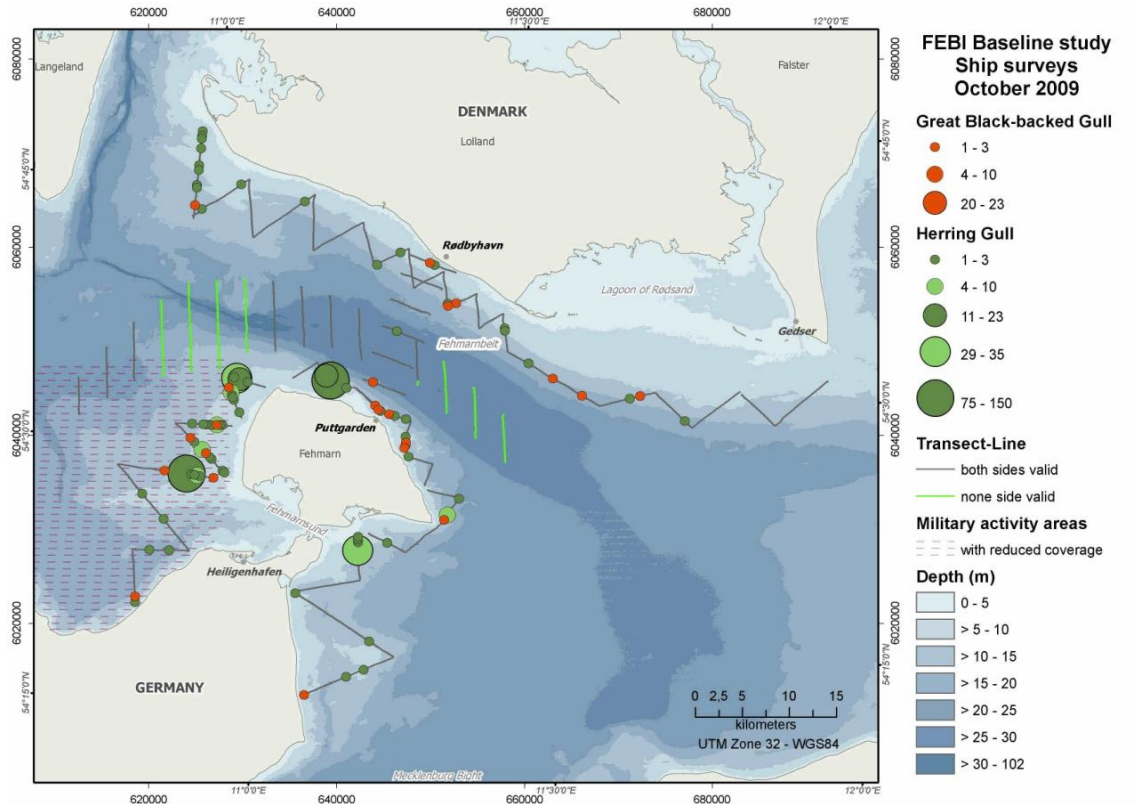


Figure 1.104 Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (October 2009).

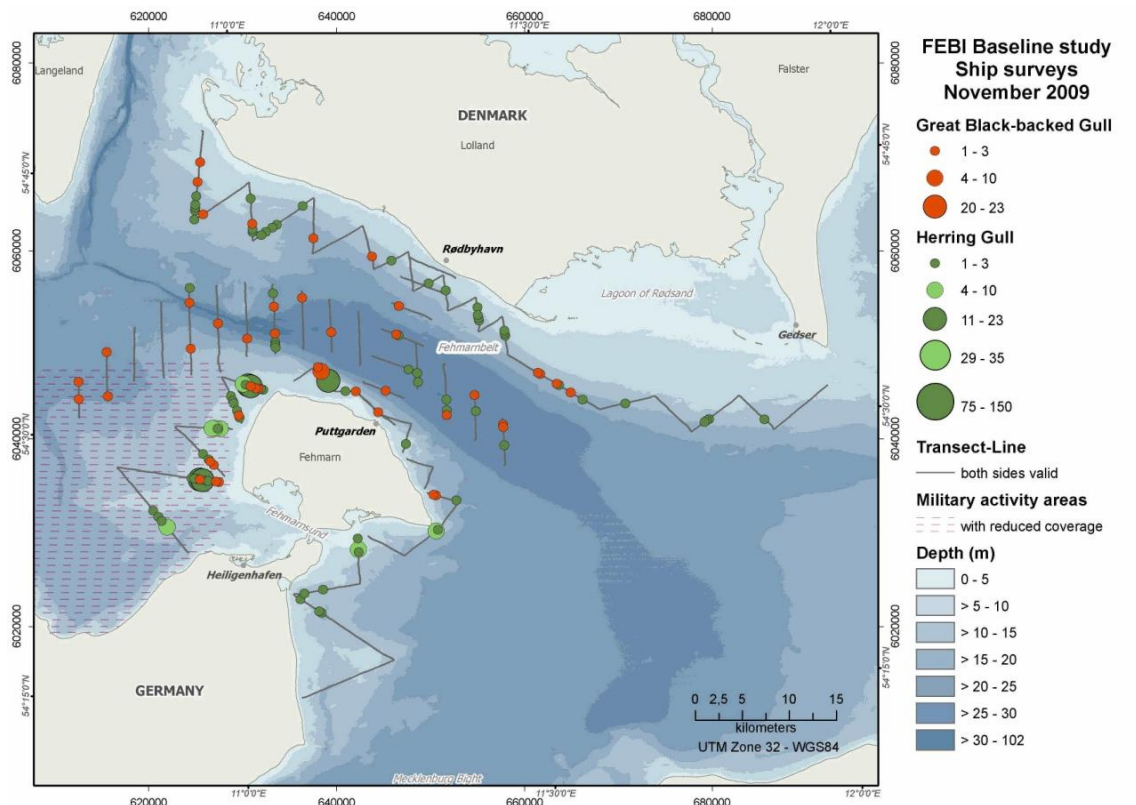


Figure 1.105 Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (November 2009).

FEHMARNBELT BIRDS

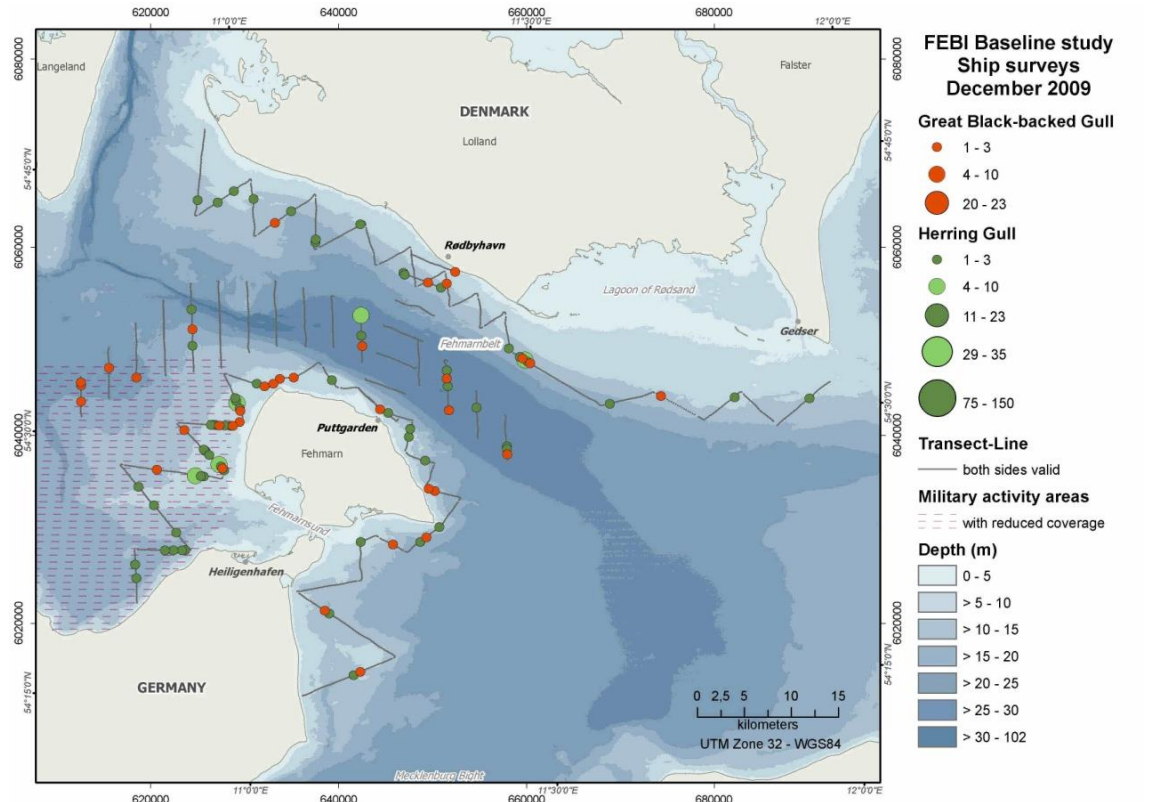


Figure 1.106 Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (December 2009).

1.1.10 Sandwich Tern / Common Tern / Arctic Tern – *Sterna sandvicensis* / *Sterna hirundo* / *Sterna paradisaea*

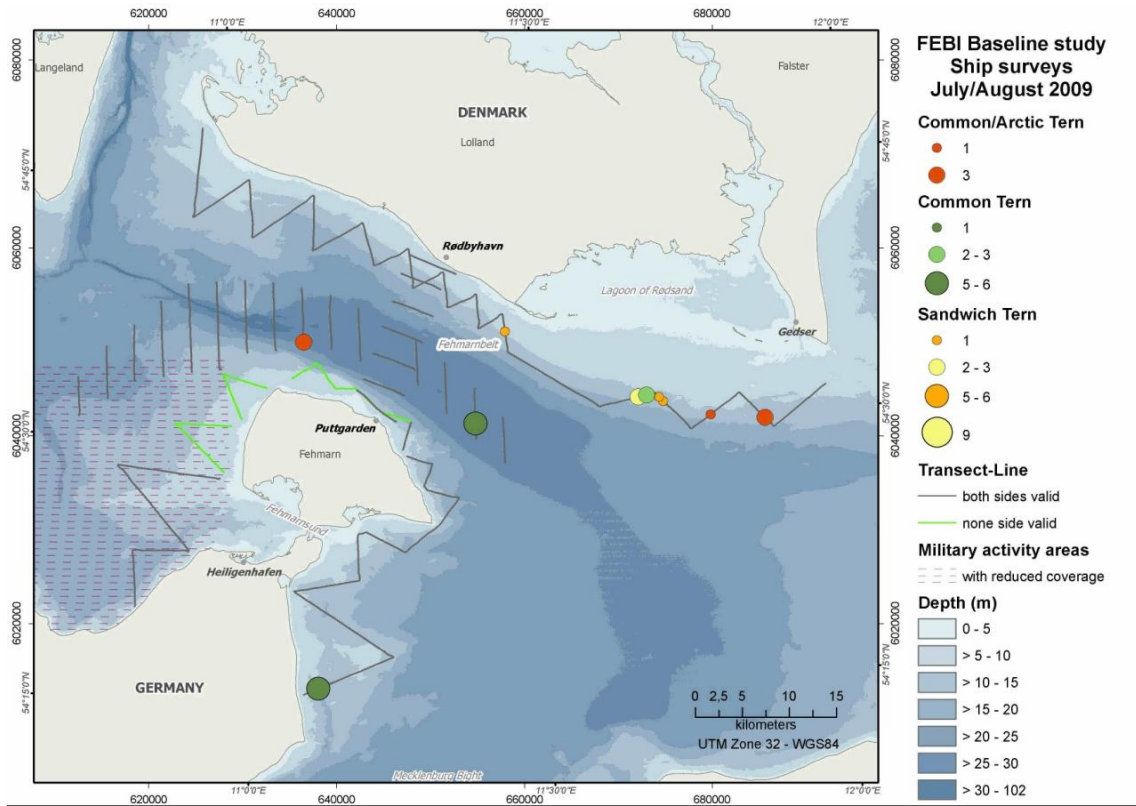


Figure 1.107 Tern distribution in the study area during ship-based surveys (July/August 2009).

FEHMARNBELT BIRDS

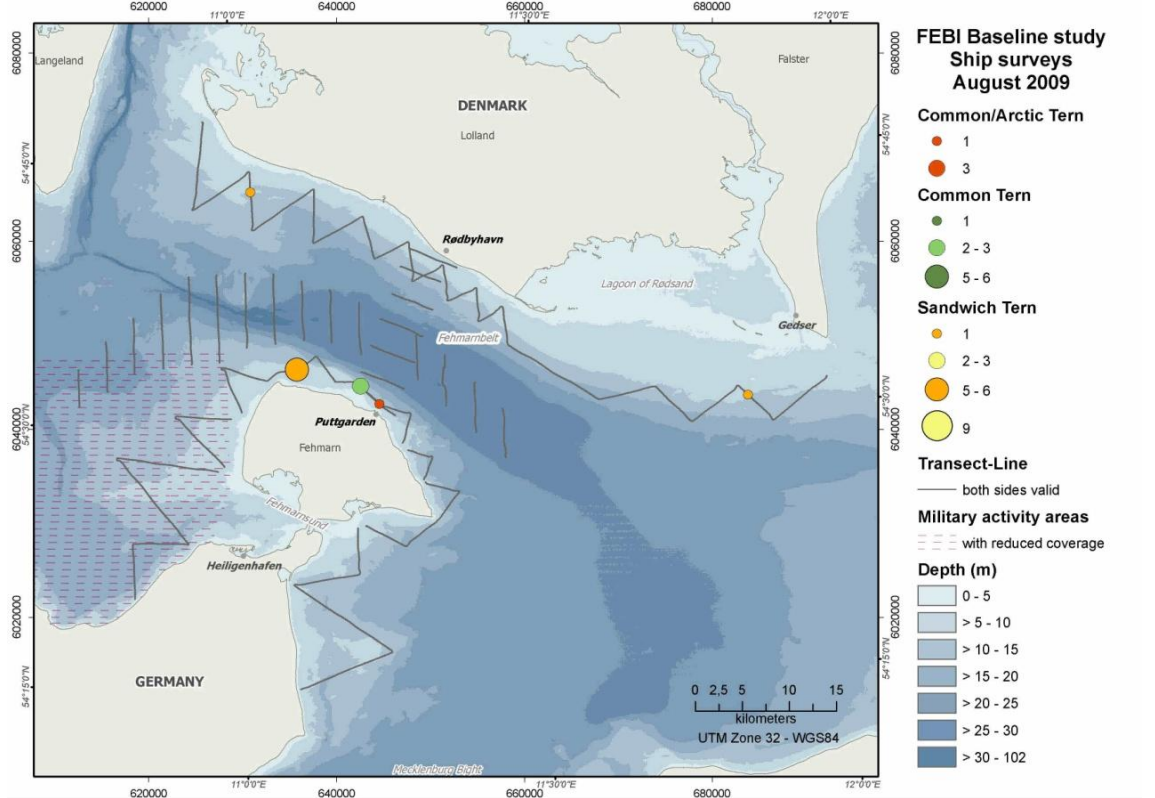


Figure 1.108 Tern distribution in the study area during ship-based surveys (August 2009).

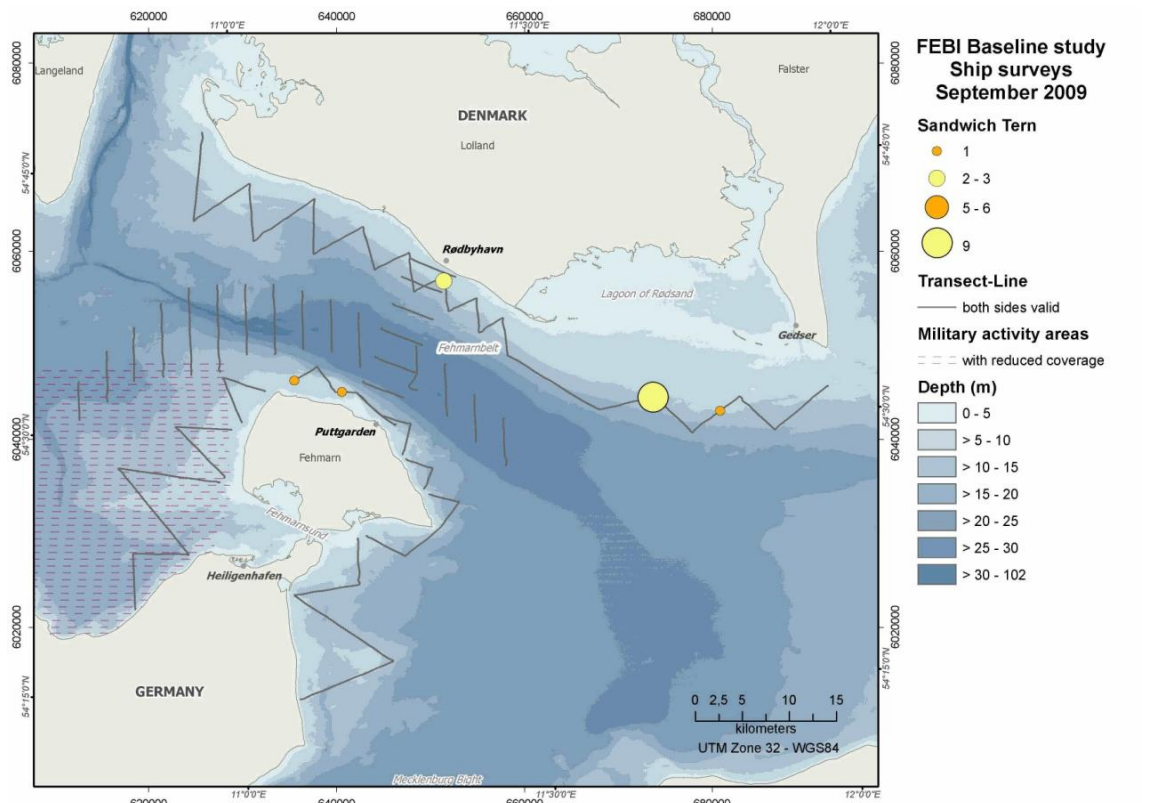


Figure 1.109 Sandwich Tern distribution in the study area during ship-based surveys (September 2009).

1.1.11 Guillemot/ Razorbill/ Black Guillemot – *Uria aalge* / *Alca torda* / *Cepphus grille*

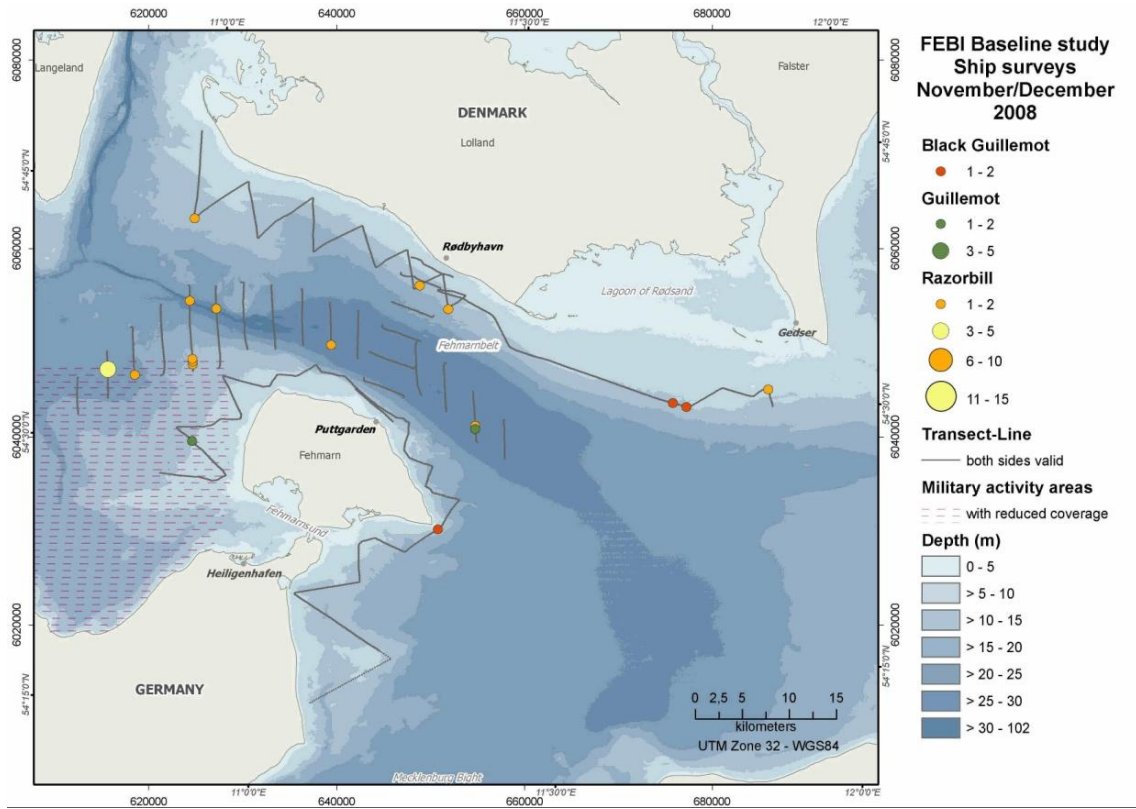


Figure 1.110 Auk distribution in the study area during ship-based surveys (November/December 2008).

FEHMARNBELT BIRDS

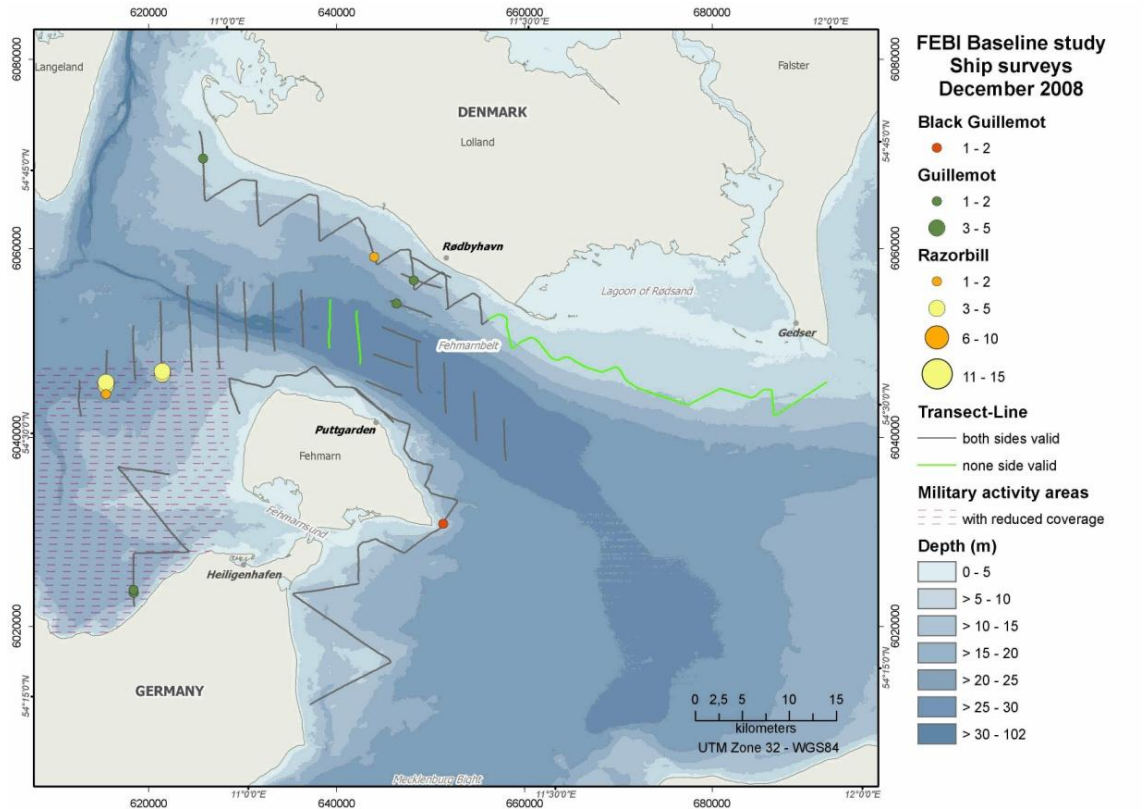


Figure 1.111 Auk distribution in the study area during ship-based surveys (December 2008).

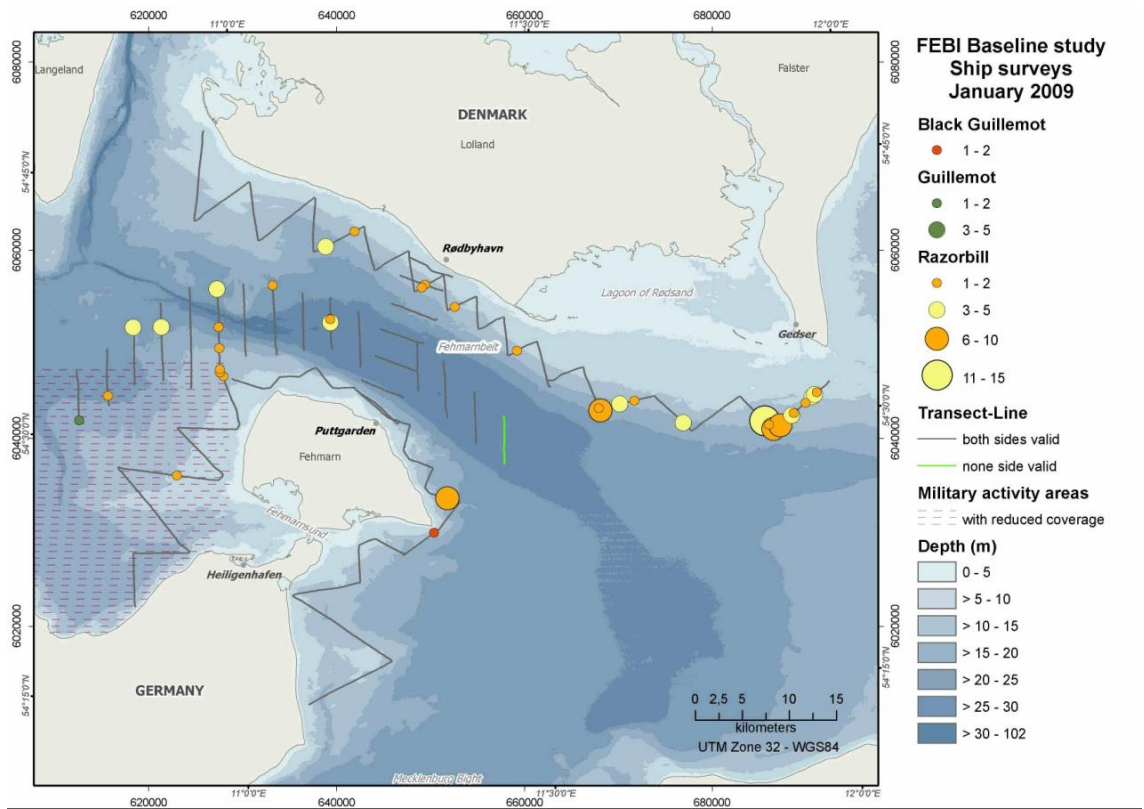


Figure 1.112 Auk distribution in the study area during ship-based surveys (January 2009).

FEHMARNBELT BIRDS

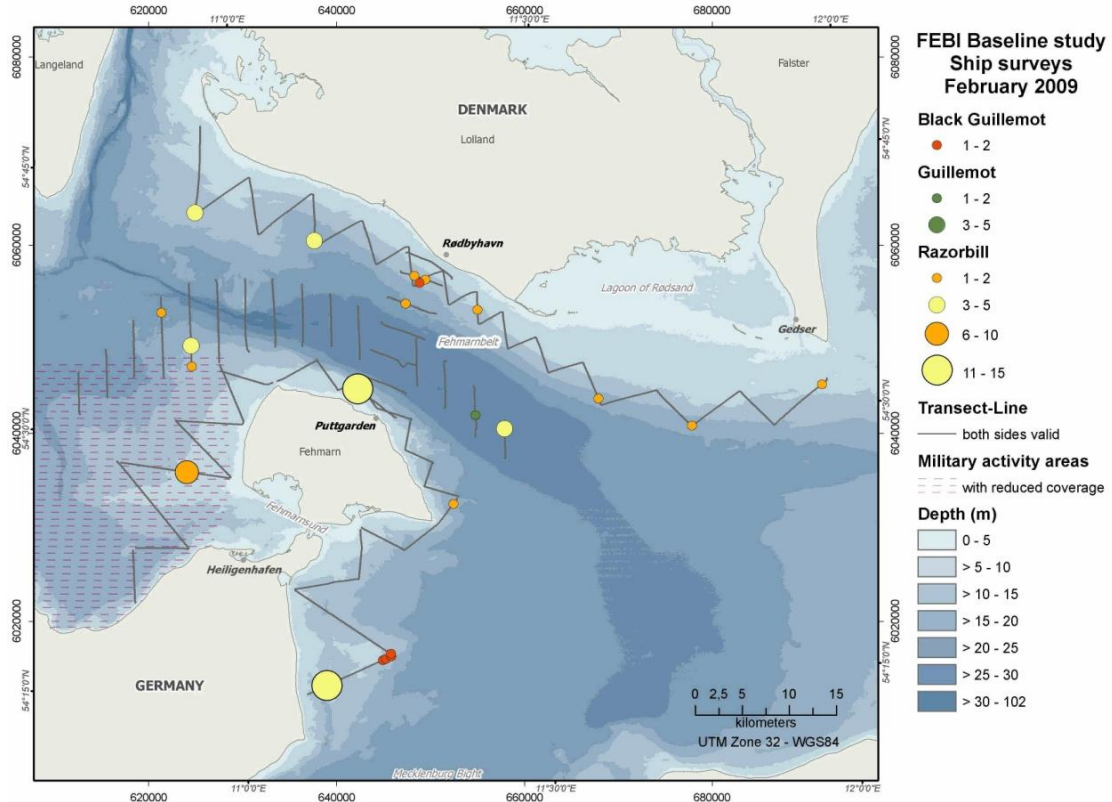


Figure 1.113 Auk distribution in the study area during ship-based surveys (February 2009).

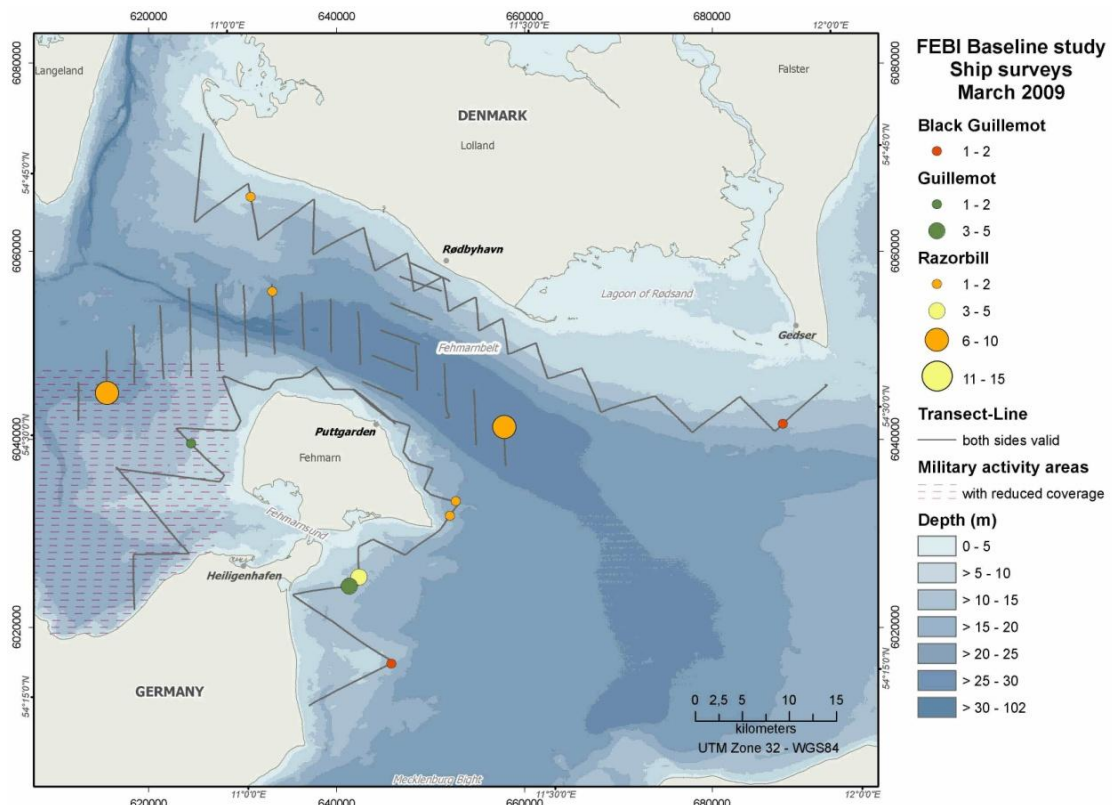


Figure 1.114 Auk distribution in the study area during ship-based surveys (February and March 2009).

FEHMARNBELT BIRDS

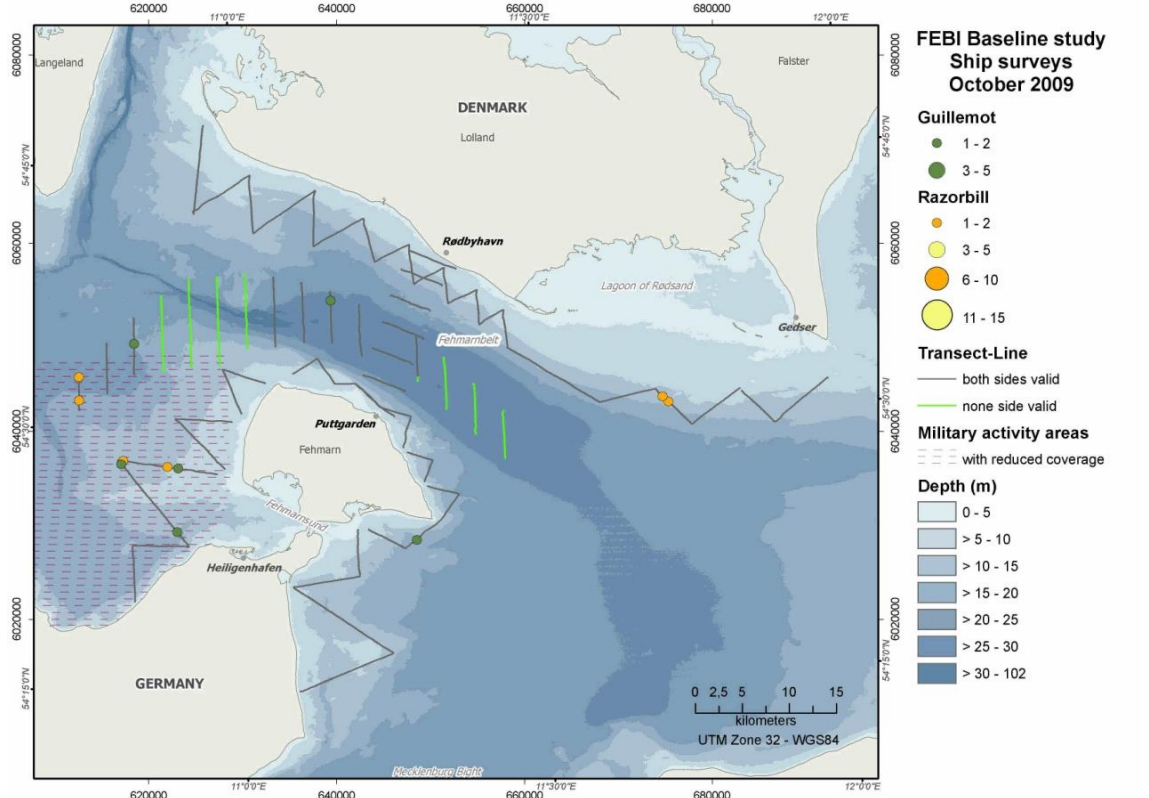


Figure 1.115 Auk distribution in the study area during ship-based surveys (October 2009).

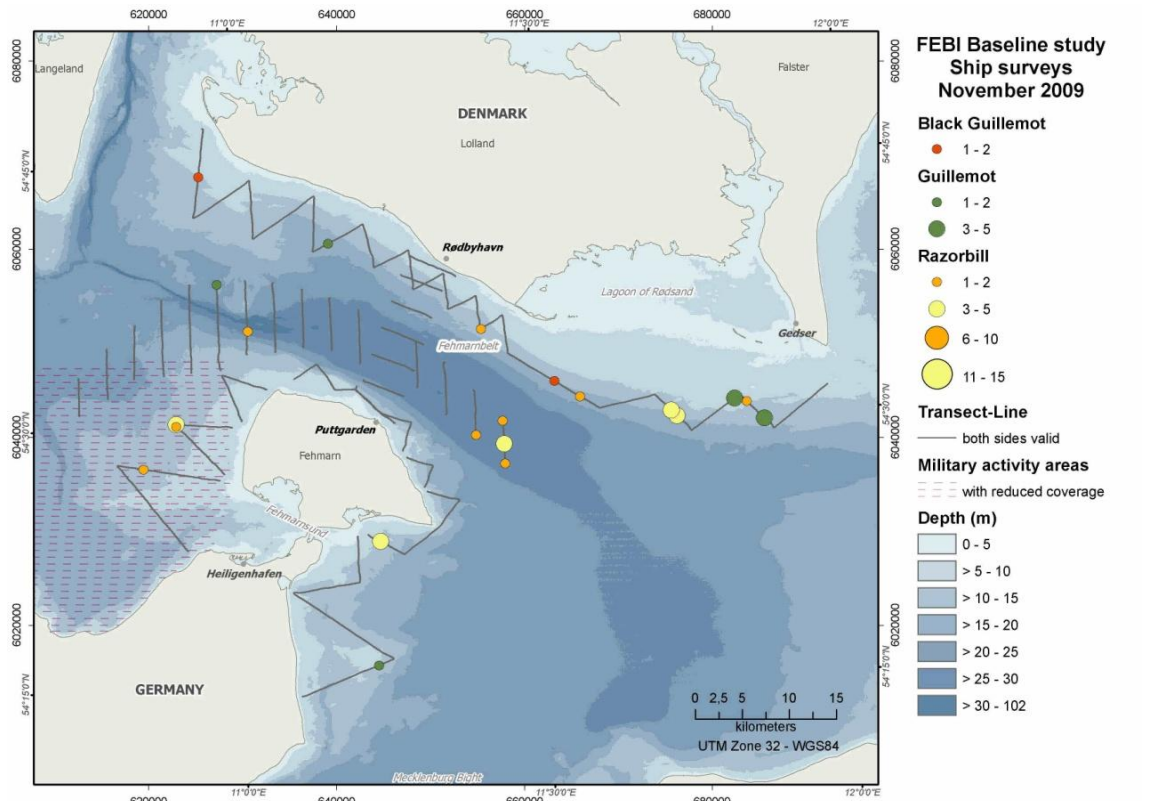


Figure 1.116 Auk distribution in the study area during ship-based surveys (November 2009).

FEHMARNBELT BIRDS

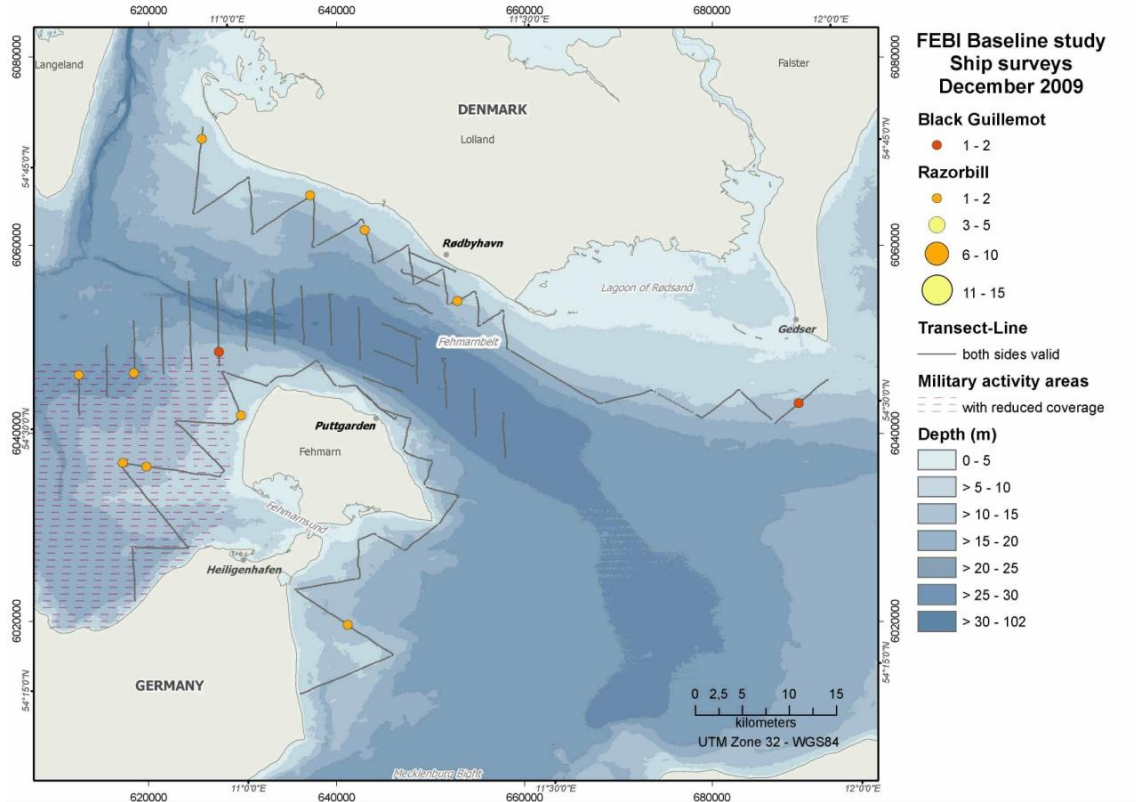


Figure 1.117 Auk distribution in the study area during ship-based surveys (December 2009).

List of figures

Figure 1.1	Diver distribution in the study area during ship-based surveys (November/December 2008).	1
Figure 1.2	Diver distribution in the study area during ship-based surveys (December 2008).....	2
Figure 1.3	Diver distribution in the study area during ship-based surveys (January 2009).....	2
Figure 1.4	Diver distribution in the study area during ship-based surveys (February 2009).....	3
Figure 1.5	Diver distribution in the study area during ship-based surveys (March 2009).	3
Figure 1.6	Diver distribution in the study area during ship-based surveys (April 2009).....	4
Figure 1.7	Diver distribution in the study area during ship-based surveys (November 2009).....	4
Figure 1.8	Diver distribution in the study area during ship-based surveys (December 2009).....	5
Figure 1.9	Grebe distribution in the study area during ship-based surveys (November/December 2008).....	6
Figure 1.10	Grebe distribution in the study area during ship-based surveys (December 2008).	7
Figure 1.11	Grebe distribution in the study area during ship-based surveys (January 2009).....	7
Figure 1.12	Grebe distribution in the study area during ship-based surveys (February 2009).....	8
Figure 1.13	Grebe distribution in the study area during ship-based surveys (March 2009).....	8
Figure 1.14	Grebe distribution in the study area during ship-based surveys (April 2009).	9
Figure 1.15	Grebe distribution in the study area during ship-based surveys (August 2009).....	9
Figure 1.16	Grebe distribution in the study area during ship-based surveys (September 2009).	10
Figure 1.17	Grebe distribution in the study area during ship-based surveys (October 2009).....	10
Figure 1.18	Grebe distribution in the study area during ship-based surveys (November 2009).	11
Figure 1.19	Grebe distribution in the study area during ship-based surveys (December 2009).	11
Figure 1.20	Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (November/December 2008).	12
Figure 1.21	Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (December 2008).	13
Figure 1.22	Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (January 2009).	13
Figure 1.23	Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (February 2009).	14
Figure 1.24	Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (March 2009).	14
Figure 1.25	Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (April 2009).	15
Figure 1.26	Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (May/June 2009).	15
Figure 1.27	Great Cormorant distribution in the study area during ship-based surveys (July 2009).	16

FEHMARNBELT BIRDS

Figure 1.28	Great Cormorant distribution in the study area during ship-based surveys (July and July/August 2009).....	16
Figure 1.29	Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (August 2009).....	17
Figure 1.30	Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (September 2009).....	17
Figure 1.31	Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (October 2009).....	18
Figure 1.32	Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (November 2009).....	18
Figure 1.33	Great Cormorant and Velvet Scoter distribution in the study area during ship-based surveys (December 2009).....	19
Figure 1.34	Common Eider distribution in the study area during ship-based surveys (November/December 2008).....	20
Figure 1.35	Common Eider distribution in the study area during ship-based surveys (December 2008).....	21
Figure 1.36	Common Eider distribution in the study area during ship-based surveys (January 2009).....	21
Figure 1.37	Common Eider distribution in the study area during ship-based surveys (February 2009).....	22
Figure 1.38	Common Eider distribution in the study area during ship-based surveys (March 2009).....	22
Figure 1.39	Common Eider distribution in the study area during ship-based surveys (April 2009).....	23
Figure 1.40	Common Eider distribution in the study area during ship-based surveys (May/June 2009).....	23
Figure 1.41	Common Eider distribution in the study area during ship-based surveys (July 2009).....	24
Figure 1.42	Common Eider distribution in the study area during ship-based surveys (July/August 2009).....	24
Figure 1.43	Common Eider distribution in the study area during ship-based surveys (August 2009).....	25
Figure 1.44	Common Eider distribution in the study area during ship-based surveys (September 2009).....	25
Figure 1.45	Common Eider distribution in the study area during ship-based surveys (October 2009).....	26
Figure 1.46	Common Eider distribution in the study area during ship-based surveys (November 2009).....	26
Figure 1.47	Common Eider distribution in the study area during ship-based surveys (December 2009).....	27
Figure 1.48	Long-tailed Duck distribution in the study area during ship-based surveys (November/December 2008).....	28
Figure 1.49	Long-tailed Duck distribution in the study area during ship-based surveys (December 2008).....	29
Figure 1.50	Long-tailed Duck distribution in the study area during ship-based surveys (January 2009).....	29
Figure 1.51	Long-tailed Duck distribution in the study area during ship-based surveys (February 2009).....	30
Figure 1.52	Long-tailed Duck distribution in the study area during ship-based surveys (March 2009).....	30
Figure 1.53	Long-tailed Duck distribution in the study area during ship-based surveys (April 2009).....	31
Figure 1.54	Long-tailed Duck distribution in the study area during ship-based surveys (October 2009).....	31

FEHMARNBELT BIRDS

Figure 1.55	Long-tailed Duck distribution in the study area during ship-based surveys (November 2009).	32
Figure 1.56	Long-tailed Duck distribution in the study area during ship-based surveys (December 2009).	32
Figure 1.57	Common Scoter distribution in the study area during ship-based surveys (November/December 2008).	33
Figure 1.58	Common Scoter distribution in the study area during ship-based surveys (December 2008).	34
Figure 1.59	Common Scoter distribution in the study area during ship-based surveys (January 2009).	34
Figure 1.60	Common Scoter distribution in the study area during ship-based surveys (February 2009).	35
Figure 1.61	Common Scoter distribution in the study area during ship-based surveys (March 2009).	35
Figure 1.62	Common Scoter distribution in the study area during ship-based surveys (April 2009).	36
Figure 1.63	Common Scoter distribution in the study area during ship-based surveys (May/June 2009).	36
Figure 1.64	Common Scoter distribution in the study area during ship-based surveys (October 2009).	37
Figure 1.65	Common Scoter distribution in the study area during ship-based surveys (November 2009).	37
Figure 1.66	Common Scoter distribution in the study area during ship-based surveys (December 2009).	38
Figure 1.67	Red-breasted Merganser and Goosander distribution in the study area during ship-based surveys (November/December 2008).	39
Figure 1.68	Red-breasted Merganser distribution in the study area during ship-based surveys (December 2008).	40
Figure 1.69	Merganser distribution in the study area during ship-based surveys (January 2009).	40
Figure 1.70	Red-breasted Merganser distribution in the study area during ship-based surveys (February 2009).	41
Figure 1.71	Red-breasted Merganser and Goosander distribution in the study area during ship-based surveys (March 2009).	41
Figure 1.72	Red-breasted Merganser distribution in the study area during ship-based surveys (April 2009).	42
Figure 1.73	Red-breasted Merganser distribution in the study area during ship-based surveys (October 2009).	42
Figure 1.74	Red-breasted Merganser and Goosander distribution in the study area during ship-based surveys (November 2009).	43
Figure 1.75	Red-breasted Merganser distribution in the study area during ship-based surveys (December 2009).	43
Figure 1.76	Little Gull distribution in the study area during ship-based surveys (April 2009).	44
Figure 1.77	Little Gull distribution in the study area during ship-based surveys (October 2009).	45
Figure 1.78	Little Gull distribution in the study area during ship-based surveys (November 2009).	45
Figure 1.79	Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (November/December 2008).	46
Figure 1.80	Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (December 2008).	47
Figure 1.81	Common Gull distribution in the study area during ship-based surveys (January 2009).	47

FEHMARNBELT BIRDS

Figure 1.82	Common Gull distribution in the study area during ship-based surveys (February 2009).	48
Figure 1.83	Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (March 2009).	48
Figure 1.84	Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (April 2009).	49
Figure 1.85	Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (May/June 2009).	49
Figure 1.86	Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (July 2009).	50
Figure 1.87	Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (July/August 2009).	50
Figure 1.88	Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (August 2009).	51
Figure 1.89	Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (September 2009).	51
Figure 1.90	Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (October 2009).	52
Figure 1.91	Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (November 2009).	52
Figure 1.92	Black-headed Gull and Common Gull distribution in the study area during ship-based surveys (December 2009).	53
Figure 1.93	Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (November/December 2008).	54
Figure 1.94	Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (December 2008).	55
Figure 1.95	Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (January 2009).	55
Figure 1.96	Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (February 2009).	56
Figure 1.97	Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (March 2009).	56
Figure 1.98	Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (April 2009).	57
Figure 1.99	Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (May/June 2009).	57
Figure 1.100	Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (July 2009).	58
Figure 1.101	Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (July/August 2009).	58

FEHMARNBELT BIRDS

Figure 1.102	Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (August 2009).	59
Figure 1.103	Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (September 2009).	59
Figure 1.104	Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (October 2009).	60
Figure 1.105	Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (November 2009).	60
Figure 1.106	Great Black-backed Gull and Herring Gull distribution in the study area during ship-based surveys (December 2009).	61
Figure 1.107	Tern distribution in the study area during ship-based surveys (July/August 2009).	62
Figure 1.108	Tern distribution in the study area during ship-based surveys (August 2009).	63
Figure 1.109	Sandwich Tern distribution in the study area during ship-based surveys (September 2009).	63
Figure 1.110	Auk distribution in the study area during ship-based surveys (November/December 2008).	64
Figure 1.111	Auk distribution in the study area during ship-based surveys (December 2008).	65
Figure 1.112	Auk distribution in the study area during ship-based surveys (January 2009).	65
Figure 1.113	Auk distribution in the study area during ship-based surveys (February 2009).	66
Figure 1.114	Auk distribution in the study area during ship-based surveys (February and March 2009).	66
Figure 1.115	Auk distribution in the study area during ship-based surveys (October 2009).	67
Figure 1.116	Auk distribution in the study area during ship-based surveys (November 2009).	67
Figure 1.117	Auk distribution in the study area during ship-based surveys (December 2009).	68