

**From:** [Dominika Phillips](#)  
**To:** [Hornsea Project Three](#); [KJ Johansson](#); [Kay Sully](#)  
**Cc:** [Andrew Guyton](#); [Stuart Livesey](#)  
**Subject:** Hornsea Project Three (UK) Ltd response to Deadline 4 (Part 7)  
**Date:** 15 January 2019 23:06:22  
**Attachments:** [image001.png](#)  
[D4\\_HOW03\\_Appendix 26\\_Sotheran et al 2017.pdf](#)  
[D4\\_HOW03\\_Appendix 27\\_Pennycuik et al 1987.pdf](#)  
[D4\\_HOW03\\_Appendix 28\\_SPA.pdf](#)  
[D4\\_HOW03\\_Appendix 29\\_Conservation Objectives\\_NNCSR SAC.pdf](#)  
[D4\\_HOW03\\_Appendix 30\\_Q2.2.20.pdf](#)  
[D4\\_HOW03\\_Appendix 31\\_List of aviation assumptions.pdf](#)

---

Dear Kay, K-J

Please find attached the 7<sup>th</sup> instalment of documents.

Best regards,  
**Dr Dominika Chalder PIEMA**  
Environment and Consent Manager



Environmental Management UK | Wind Power  
5 Howick Place | London | SW1P 1WG



Please consider the environment before printing this e-mail

\*\*\*\*\*

This communication contains information which is confidential and is for the exclusive use of the addressee(s).

If you are not a named addressee, please inform the sender immediately and also delete the communication from your system.

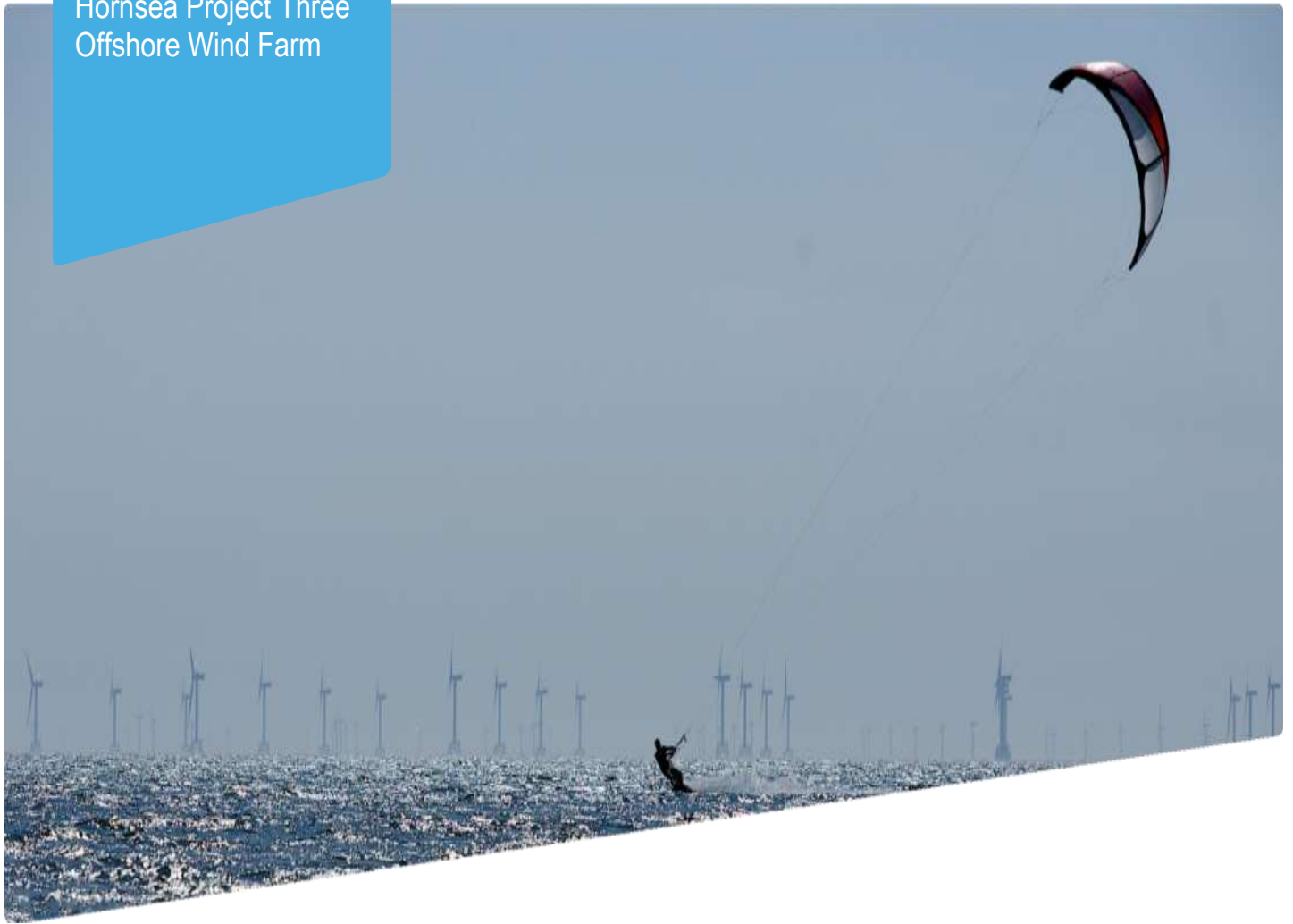
Orsted Power (UK) Limited is registered in England  
Registered number: 04984787  
Registered Address: 5 Howick Place, London, SW1P 1WG  
The Company is a wholly owned subsidiary of Orsted A/S (a company registered in Denmark)  
More information on the business of the Orsted group can be found at [www.orsted.com](http://www.orsted.com)  
Disclaimer version 1.1

---

This email has been scanned by the Symantec Email Security.cloud service.  
For more information please visit <http://www.symanteccloud.com>

---

Hornsea Project Three  
Offshore Wind Farm



## Hornsea Project Three Offshore Wind Farm

Appendix 30 to Deadline 4 submission – Detailed  
response to the ExA Q2.2.20

Date: 15<sup>th</sup> January 2019

Document Control			
Document Properties			
Organisation	Ørsted Hornsea Project Three		
Author	Matt Hazelton (NIRAS)		
Checked by	Felicity Browner		
Approved by	Andrew Guyton		
Title	Appendix 30 to Deadline 4 submission – Detailed response to the ExA Q2.2.20		
PINS Document Number	n/a		
Version History			
Date	Version	Status	Description / Changes
15/01/2019	A	Final	Submission at Deadline 4 (15/01/2019)

Ørsted

5 Howick Place,

London, SW1P 1WG

© Orsted Power (UK) Ltd, 2019. All rights reserved

Front cover picture: Kite surfer near a UK offshore wind farm © Ørsted Hornsea Project Three (UK) Ltd., 2019.

## Table of Contents

1. Kittiwake hotspots.....	3
2. References .....	6

## List of Figures

Figure 1.1 Kittiwake hotspots around the UK from Cleasby <i>et al.</i> (2018) using Getis-Ord hotspot analysis with a neighbourhood size of $d = 10$ km based on FPT analysis.....	4
Figure 1.2 Kittiwake hotspots around the UK from Cleasby <i>et al.</i> (2018) using maximum curvature .....	5



## 1. Kittiwake hotspots

- 1.1 The following figures use the data presented in Cleasby *et al.* (2018) which is available from the Open Data Portal on the Royal Society for the Protection of Birds' website and also was submitted by Applicant at Deadline 1 (REP1-144). These data have been reproduced alongside the location of Hornsea Three to show the overlap between kittiwake hotspots around the UK coast and the Hornsea Three array area. As stated by the Applicant at the Issue Specific Hearing for Hornsea Three, there is no overlap between these hotspots and the Hornsea Three array area.

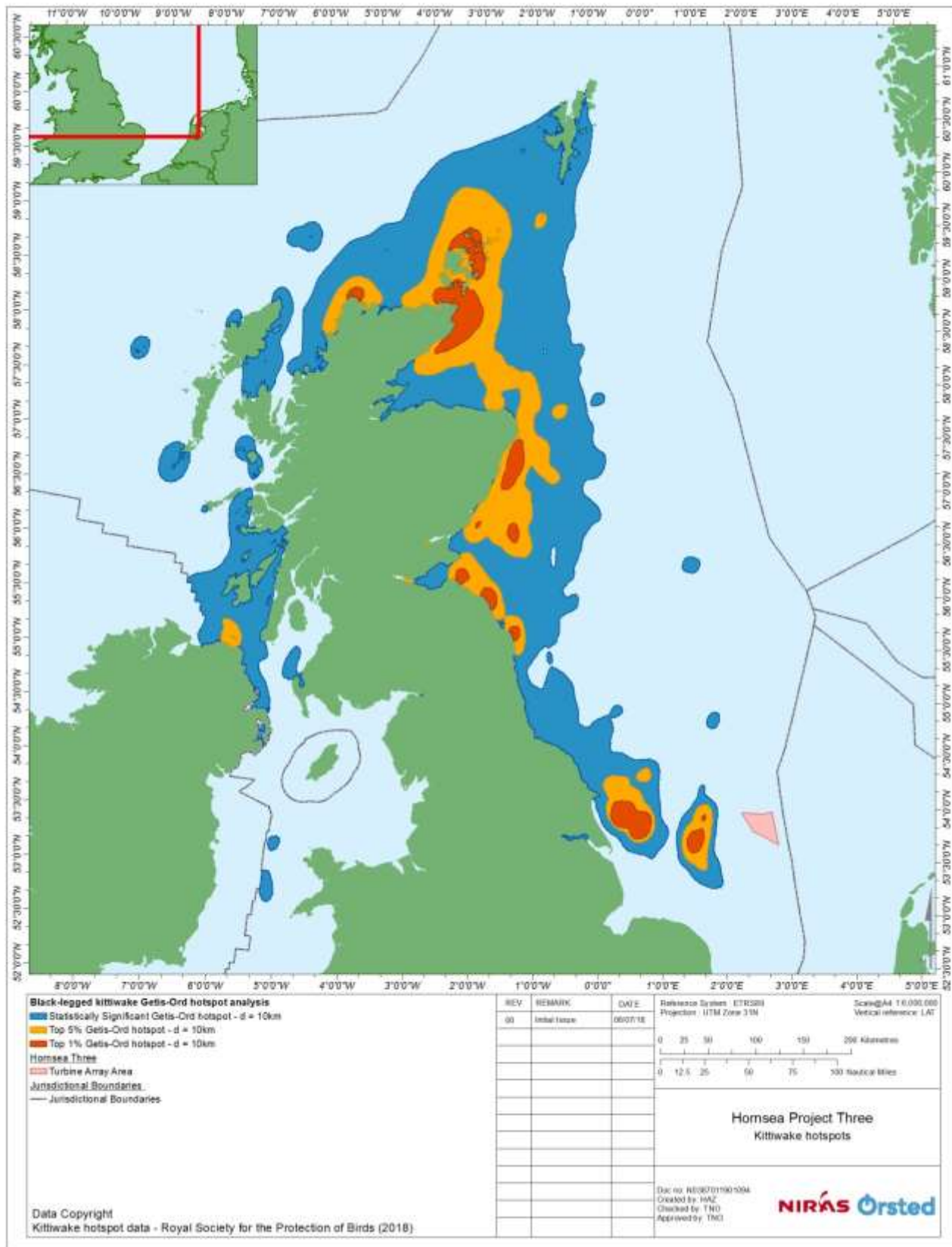


Figure 1.1 Kittiwake hotspots around the UK from Cleasby *et al.* (2018) using Getis-Ord hotspot analysis with a neighbourhood size of  $d = 10\text{ km}$  based on FPT analysis

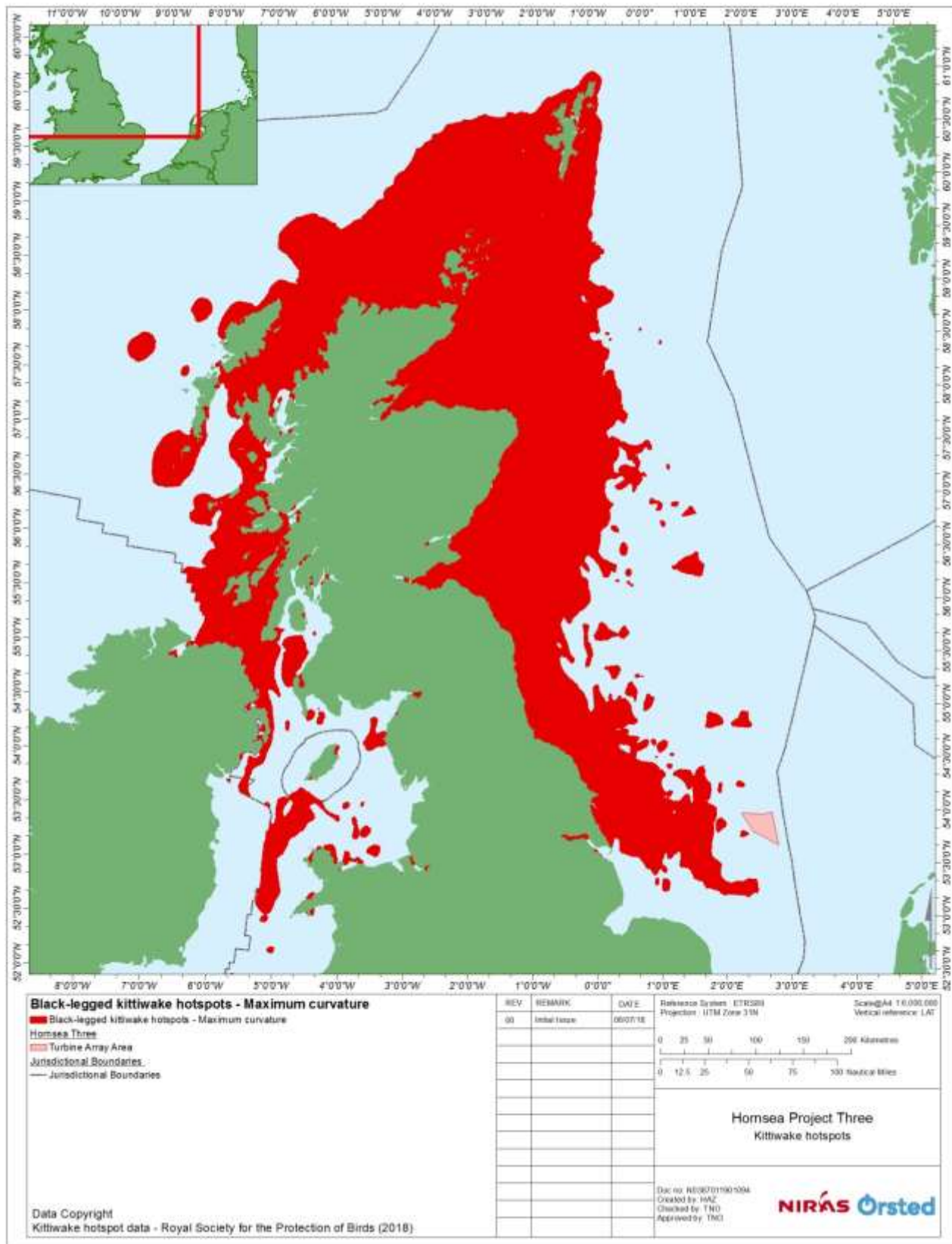


Figure 1.2 Kittiwake hotspots around the UK from Cleasby et al. (2018) using maximum curvature

## 2. References

Cleasby IR, Owen E, Wilson LJ, Bolton M (2018) Combining habitat modelling and hotspot analysis to reveal the location of high density seabird areas across the UK: Technical Report. RSPB Research Report no. 63. RSPB Centre for Conservation Science, RSPB, The Lodge, Sandy, Bedfordshire, SG19 2DL.