



# Marine Management Organisation Marine Licence

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## 1 Introduction

This is a licence granted by the Marine Management Organisation on behalf of the Secretary of State to authorise the licence holder to carry on activities for which a licence is required under Part 4 of the Marine and Coastal Access Act 2009.

### 1.1 Licence number

The licence number for this licence is L/2016/00190/1

### 1.2 Licence holder

The licence holder is the person or organisation set out below:

Name / company name	Galloper Wind Farm Limited
Company registration number (if applicable)	07320597
Address	WINDMILL HILL BUSINESS PARK, WHITEHILL WAY, SWINDON, SN5 6PB
Contact within company	Colin McAllister
Position within company (if applicable). State if company officer or director	Consents Manager

### 1.3 Licence date

Version	1
Licence start date	20 June 2016
Licence end date	31 December 2016
Date of original issue	20 June 2016

### 1.4 Licence validity

This version of this licence is valid from the licence start date to the licence end date.

This version of this licence supersedes any earlier version of this licence. Any activity commenced under a previous version of this licence and which is also a licensed activity authorised by section 4 of this version of this licence may continue in accordance with the licence conditions in section 5 of this version of this licence.

Miss Kathleen Mongan

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Kathleen.Mongan@marinemanagement.org.uk

## 2 General

### 2.1 Interpretation

In this licence, terms are as defined in section 115 of the Marine and Coastal Access Act and the Interpretation Act 1978 unless otherwise stated.

- "licensed activity" means any activity set out in section 4 of this licence.
- "licence holder" means the person(s) or organisation(s) named in section 1 above to whom this licence is granted.
- "MMO" means the Marine Management Organisation.
- "mean high water springs" means the average of high water heights occurring at the time of spring tides.
- "sea bed" or "seabed" means the ground under the sea.
- "the 2009 Act" means the Marine and Coastal Access Act 2009.
- All times shall be taken to be the time on any given day.
- All geographical co-ordinates contained within this licence are in WGS84 format (latitude and longitude degrees and minutes to three decimal places) unless stated otherwise.

### 2.2 Contacts

Except where otherwise indicated, the main point of contact with the MMO and the address for email and postal returns and correspondence shall be:

**Marine Management Organisation**

**Lancaster House**

**Hampshire Court**

**Newcastle upon Tyne**

**NE4 7YH**

**Tel:0300 123 1032**

**Fax:0191 376 2681**

**Email:marine.consent@marinemanagement.org.uk**

Any references to any local MMO officer shall be the relevant officer in the area(s) located at:

**Marine Management Organisation**

**Pakefield Road**

**Lowestoft**

**Suffolk**

**NR33 0HT**

**Tel: 01502 573149**

**Fax: 01502 514854**  
**Email: [lowestoft@marinemanagement.org.uk](mailto:lowestoft@marinemanagement.org.uk)**

## **3 Project overview**

### **3.1 Project title**

Galloper Wind Farm Telecommunications Cable Removal

### **3.2 Project description**

Galloper Wind Farm Limited (GWFL) was granted a Development Consent Order (DCO) in May 2013 for an extension of the existing and fully operational Greater Gabbard Wind Farm in the Outer Thames Estuary. The project now being developed by GWFL, to be known as Galloper Wind Farm (GWF), is located ~27km off the Suffolk coast and will comprise of up to 56 wind turbines, with an installed capacity of up to 504MW.

GWFL is currently preparing for construction of GWF and has identified a need for sections of a number of telecommunications cables to be removed and the residual cable ends relocated to avoid GWF cable locations.

One cable (Atlantic Crossing 1 (AC1)) is located within the offshore wind farm site and will be removed from the north and south array areas and from the Traffic Separation Scheme (TSS) area between the arrays. Four out of service cables will be removed from the export cable corridor.

### **3.3 Related marine licences**

L/2016/00019 - Disposal of dredged material;

L/2016/00020 - Galloper Wind Farm Pre-Sweep;

L/2016/00016 - UXO Clearance.

## 4 Licensed activities

This section sets out the licensed activities. The licensed activities are authorised to be carried on only in accordance with the activity details below and with the licence conditions as set out in section 5 of this licence.

Please note that where licensed quantities are displayed with reference to their constituent materials, the relative quantities given for the constituent materials are indicative only.

Site 1 - Galloper_ECR_Boundary_1	
Site location	Galloper Offshore Wind Farm
Activity 1.1 - Removal of telecommunication cables	
Activity type	Other removals
Activity location	For activity location refer to Coordinate Shedules.
Description	The Galloper OWF project design places the export cable route and elements of the array cables across disused telecommunications cables. To ensure safe installation of the export cable and array cables the telecommunications cables will be removed.
Methodology	<p>A crane will lower the mass flow excavating (MFE) tool to a location above the surveyed position where the cable is to be removed and jetting will take place to expose a section of the cable. Once the cable location is confirmed, the MFE will use jetting to debury the entire length of cable that is to be removed.</p> <p>Once visible the cable will be cut by an remotely operated vehicle (ROV) and one end of the cable will be recovered to deck using a winch. The cable section to be removed will be cut on board the vessel and the residual end deposited on the seabed with a clump weight. This operation will then be repeated for the other cable end so that both cable ends are secured on the seabed.</p> <p>During removal of the Atlantic Crossing cable, 250m to either side of the initial cut point will be deburied by MFE and the remaining length of the cable recovered onto deck (after cutting) without prior deburial.</p> <p>Alternatively a grapnel run, using a de-trenching grapnel, will be conducted in the first instance to find the out of service cable and recover it to deck. Two runs will be performed in opposite directions across the expected out of service cable location. If required a final third run will be conducted.</p>

	<p>In shallower waters it may be possible to recover the cable to deck after deburial without using an ROV to cut the cable. In such cases the cable will be cut on deck and the cut ends deposited to the seabed attached to a clump weight.</p> <p>The locations at which the cut ends of the cable will be deposited on the seabed will be determined by the location of the cable to be removed and the final agreed installation position of the Galloper cable.</p>
Programme of works	Works are to take place between April 2016 and December 2016.

Site 2 - Galloper_ECR_Boundary_2	
Site location	Galloper Offshore Wind Farm
Activity 2.1 - Removal of telecommunication cables	
Activity type	Other removals
Activity location	For activity location refer to Coordinate Schedules.
Description	The Galloper Wind Farm project design places the export cable route and elements of the array cables across telecommunications cables. To ensure safe installation of the export cable and array cables the telecommunications cables need to be removed.
Methodology	<p>A crane will lower the mass flow excavating (MFE) tool to a location above the surveyed position where the cable is to be removed and jetting will take place to expose a section of the cable. Once the cable location is confirmed, the MFE will use jetting to debury the entire length of cable that is to be removed.</p> <p>Once visible the cable will be cut by a remotely operated vehicle (ROV) and one end of the cable will be recovered to deck using a winch. The cable section to be removed will be cut on board the vessel and the residual end deposited on the seabed with a clump weight. This operation will then be repeated for the other cable end so that both cable ends are secured on the seabed.</p> <p>During removal of the Atlantic Crossing cable, 250m to either side of the initial cut point will be deburied by MFE and the remaining length of the cable recovered onto deck (after cutting) without prior deburial.</p> <p>Alternatively a grapnel run, using a de-trenching grapnel, will be conducted in the first instance to find the out of service cable and recover it to deck. Two runs will be</p>

	<p>performed in opposite directions across the expected out of service cable location. If required a final third run will be conducted.</p> <p>In shallower waters it may be possible to recover the cable to deck after deburial without using an ROV to cut the cable. In such cases the cable will be cut on deck and the cut ends deposited to the seabed attached to a clump weight.</p> <p>The locations at which the cut ends of the cable will be deposited on the seabed will be determined by the location of the cable to be removed and the final agreed installation position of the Galloper cable.</p>
Programme of works	Works are to take place between April 2016 and December 2016.

<b>Site 3 - Galloper_WF_Boundary_1</b>	
Site location	Galloper Offshore Wind Farm
<b>Activity 3.1 - Removal of telecommunication cables</b>	
Activity type	Other removals
Activity location	For activity location refer to Coordinate Schedules.
Description	The Galloper Wind Farm project design places the export cable route and elements of the array cables across telecommunications cables. To ensure safe installation of the export cable and array cables the telecommunications cables need to be removed.
Methodology	<p>A crane will lower the mass flow excavating (MFE) tool to a location above the surveyed position where the cable is to be removed and jetting will take place to expose a section of the cable. Once the cable location is confirmed, the MFE will use jetting to debury the entire length of cable that is to be removed.</p> <p>Once visible the cable will be cut by an remotely operated vehicle (ROV) and one end of the cable will be recovered to deck using a winch. The cable section to be removed will be cut on board the vessel and the residual end deposited on the seabed with a clump weight. This operation will then be repeated for the other cable end so that both cable ends are secured on the seabed.</p> <p>During removal of the Atlantic Crossing cable, 250m to either side of the initial cut point will be deburied by MFE and the remaining length of the cable recovered onto deck (after cutting) without prior deburial.</p>

	<p>Alternatively a grapnel run, using a de-trenching grapnel, will be conducted in the first instance to find the out of service cable and recover it to deck. Two runs will be performed in opposite directions across the expected out of service cable location. If required a final third run will be conducted.</p> <p>In shallower waters it may be possible to recover the cable to deck after deburial without using an ROV to cut the cable. In such cases the cable will be cut on deck and the cut ends deposited to the seabed attached to a clump weight.</p> <p>The locations at which the cut ends of the cable will be deposited on the seabed will be determined by the location of the cable to be removed and the final agreed installation position of the Galloper cable.</p>
Programme of works	Works are to take place between April 2016 and December 2016.

<b>Site 4 - Galloper_WF_Boundary_2</b>	
Site location	Galloper Offshore Wind Farm
<b>Activity 4.1 - Removal of telecommunication cables</b>	
Activity type	Other removals
Activity location	For activity location refer to Coordinate Schedules.
Description	The Galloper Wind Farm project design places the export cable route and elements of the array cables across telecommunications cables. To ensure safe installation of the export cable and array cables the telecommunications cables need to be removed.
Methodology	<p>A crane will lower the mass flow excavating (MFE) tool to a location above the surveyed position where the cable is to be removed and jetting will take place to expose a section of the cable. Once the cable location is confirmed, the MFE will use jetting to debury the entire length of cable that is to be removed.</p> <p>Once visible the cable will be cut by a remotely operated vehicle (ROV) and one end of the cable will be recovered to deck using a winch. The cable section to be removed will be cut on board the vessel and the residual end deposited on the seabed with a clump weight. This operation will then be repeated for the other cable end so that both cable ends are secured on the seabed.</p>

	<p>During removal of the Atlantic Crossing cable, 250m to either side of the initial cut point will be deburied by MFE and the remaining length of the cable recovered onto deck (after cutting) without prior deburial.</p> <p>Alternatively a grapnel run, using a de-trenching grapnel, will be conducted in the first instance to find the out of service cable and recover it to deck. Two runs will be performed in opposite directions across the expected out of service cable location. If required a final third run will be conducted.</p> <p>In shallower waters it may be possible to recover the cable to deck after deburial without using an ROV to cut the cable. In such cases the cable will be cut on deck and the cut ends deposited to the seabed attached to a clump weight.</p> <p>The locations at which the cut ends of the cable will be deposited on the seabed will be determined by the location of the cable to be removed and the final agreed installation position of the Galloper cable.</p>
Programme of works	Works are to take place between April 2016 and December 2016.

## **5 Licence conditions**

### **5.1 General conditions**

#### **5.1.1 Notification of commencement**

The licence holder must notify the MMO prior to the commencement of the first instance of any licensed activity. This notice must be received by the MMO no less than five working days before the commencement of that licensed activity.

#### **5.1.2 Licence conditions binding other parties**

Where provisions under section 71(5) of the 2009 Act apply, all conditions attached to this licence apply to any person who for the time being owns, occupies or enjoys any use of the licensed activities for which this licence has been granted.

#### **5.1.3 Agents / contractors / sub-contractors**

The licence holder must notify the MMO in writing of any agents, contractors or sub-contractors that will carry on any licensed activity listed in section 4 of this licence on behalf of the licence holder. Such notification must be received by the MMO no less than 24 hours before the commencement of the licensed activity.

The licence holder must ensure that a copy of this licence and any subsequent revisions or amendments has been provided to, read and understood by any agents, contractors or sub-contractors that will carry on any licensed activity listed in section 4 of this licence on behalf of the licence holder.

#### **5.1.4 Vessels**

The licence holder must notify the MMO in writing of any vessel being used to carry on any licensed activity listed in section 4 of this licence on behalf of the licence holder. Such notification must be received by the MMO no less than 24 hours before the commencement of the licensed activity. Notification must include the master's name, vessel type, vessel IMO number and vessel owner or operating company.

The licence holder must ensure that a copy of this licence and any subsequent revisions or amendments has been read and understood by the masters of any vessel being used to carry on any licensed activity listed in section 4 of this licence, and that a copy of this licence is held on board any such vessel.

#### **5.1.5 Changes to this licence**

Should the licence holder become aware that any of the information on which the granting of this licence was based has changed or is likely to change, they must notify the MMO at the earliest opportunity. Failure to do so may render this licence invalid and may lead to enforcement action.

## 5.2 Project specific conditions

This section sets out project specific conditions relating to the licensed activities as set out in section 4 of this licence.

Prior to commencement of licensed activities	
5.2.1	<p>The licence holder must notify the local MMO office, as detailed in section 2.2, of the timetable of works at least <b>10 days prior</b> to any activities commencing.</p> <p>Reason: <i>To ensure that the MMO officer is aware of the operations occurring within its jurisdiction in order to notify other sea users and can arrange enforcement visits as appropriate.</i></p>
5.2.2	<p>The licence holder must notify the SUNK Vessel Traffic Services (VTS) at Dover Coastguard of the activities prior to commencement.</p> <p>Reason: <i>In order to discuss and agree the operational procedure for works in the Traffic Separation Scheme (TSS).</i></p>
5.2.3	<p>The licence holder must notify the UK Hydrographic Office a minimum of <b>5 working days</b> prior to any activities commencing to permit the promulgation of maritime safety information and updating of nautical charts and publications.</p> <p>Reason: To ensure other vessels in the vicinity can safely plan and conduct their passage.</p>
5.2.4	<p>The Licence Holder must issue a Notice to Mariners no less than <b>5 working days</b> prior to the commencement of activities.</p> <p>The MMO must be informed when a Notice to Mariners has been issued.</p> <p>Reason: <i>To ensure other vessels in the vicinity can plan and safely conduct their passage.</i></p>

5.2.5	<p>The Written Scheme of Investigation for the Galloper Wind Farm must be updated, and agreed with the Licensing Authority, to address matters relating to the telecommunications cable removal and potential impacts on archaeological receptors, prior to the commencement of the activities.</p> <p>Reason: <i>To ensure the integrity of archaeologically important features is not compromised.</i></p>
5.2.6	<p>The licence holder must ensure that the Licensing Authority and Galloper commercial fisheries working group are notified of the identity and credentials of the Fisheries Liaison Officer (FLO) a minimum of <b>5 days</b> prior to commencement of activities.</p> <p>The FLO remit must include:</p> <ul style="list-style-type: none"> <li>- establishing and maintaining effective communications between the licence holder, contractors, fishermen, conservation groups and other users of the sea, concerning the overall project and any amendments to the method statement and site environmental procedures; and</li> <li>- ensuring that information is made available and circulated in a timely manner.</li> </ul> <p>Reason: <i>To minimise disruption to the fishing industry and ensure navigational safety.</i></p>

#### During licensed activities

5.2.7	<p>Bunding and/or storage facilities must contain and prevent the release of fuel, oils and chemicals associated with plant, refuelling and construction equipment, into the marine environment. Secondary containment must be used with a capacity of no less than 110% of the container's storage capacity.</p> <p>Reason: <i>To minimise the risk of marine pollution incidents.</i></p>
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<b>5.2.8</b>	<p>The Licence Holder must ensure that any oil, fuel or chemical spill within the marine environment is reported to the MMO, Marine Pollution Response Team.</p> <p>Emergency number during office hours: 0300 200 2024</p> <p>24 hour Duty Officer (evenings and weekends): 07770 977 825</p> <p>At all times if other numbers out of order (Defra Duty Room): 0345 051 8486</p> <p>dispersants@marinemanagement.org.uk</p> <p>Reason: <i>To ensure that any spills are appropriately recorded and managed to minimise impact to sensitive receptors and general marine environment.</i></p>
<b>5.2.9</b>	<p>The licence holder must ensure that clump weights, rather than chains, are used at the two cable removal points adjacent to the Orford Inshore recommended Marine Conservation Zone (rMCZ) to minimise the potential erosion and abrasion of the seabed.</p> <p>Reason: <i>To protect features of nature conservation importance.</i></p>
<b>5.2.10</b>	<p>The licence holder, in cooperation with the FLO, must ensure on-going engagement with the local fishing industry through the Galloper Working Group for the duration of this licence. A representative of the MMO local marine office and the Eastern Inshore Fisheries and Conservation Authority (EIFCA) are invited to Galloper commercial fisheries working group meetings.</p> <p>Reason: <i>To ensure continued liaison with the fishing industry throughout the licensed activities.</i></p>

## Post licensed activities

<b>5.2.11</b>	<p>The licence holder must ensure that the UK Hydrographic Office is informed of the position of each cut cable and end weight to enable the updating of nautical charts and publications.</p> <p>Reason: <i>To ensure navigational safety.</i></p>
<b>5.2.12</b>	<p>The licence holder, in cooperation with the FLO, must produce a commercial fisheries chart specifying the position of each cut cable and end weight. This chart must be distributed to the Galloper commercial fisheries working group, and made available to other commercial fishermen on request. The chart must include contact details for the FLO and reporting instructions for any snagged gear.</p> <p>Reason: <i>To make commercial fishermen aware of the risk, and provide contact details to report snagged gear, ensuring navigational safety.</i></p>

## **6 Compliance and enforcement**

This licence and its terms and conditions are issued under the Marine and Coastal Access Act 2009.

Any breach of the licence terms and conditions may lead to enforcement action being taken. This can include variation, revocation or suspension of the licence, the issuing of an enforcement notice, or criminal proceedings, which may carry a maximum penalty of an unlimited fine and / or a term of imprisonment of up to two years.

Your attention is drawn to Part 4 of the Marine and Coastal Access Act 2009, in particular sections 65, 85 and 89 which set out offences, and also to sections 86, 87 and 109 which concern defences. The MMO's Compliance and Enforcement Strategy can be found on our website (<https://www.gov.uk/government/publications/compliance-and-enforcement-strategy>).

# 1. Licence schedule 1

## Galloper\_ECR\_Boundary\_1

52°12.7958'N 01°41.2471'E
52°13.0464'N 01°40.0641'E
52°13.1338'N 01°39.7001'E
52°13.1132'N 01°39.5214'E
52°13.0187'N 01°38.5743'E
52°13.0187'N 01°38.5713'E
52°13.0185'N 01°38.5653'E
52°13.0143'N 01°38.5083'E
52°13.0132'N 01°38.4983'E
52°13.0102'N 01°38.4665'E
52°13.0093'N 01°38.4557'E
52°13.0063'N 01°38.4289'E
52°13.0033'N 01°38.4033'E
52°13.0008'N 01°38.3831'E
52°12.9967'N 01°38.3538'E
52°12.9903'N 01°38.2973'E
52°12.9841'N 01°38.2559'E
52°12.9837'N 01°38.2538'E
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52°12.9766'N 01°38.2147'E
52°12.9745'N 01°38.2035'E
52°12.9692'N 01°38.1586'E
52°12.9660'N 01°38.1325'E
52°12.9651'N 01°38.1250'E
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52°12.8784'N 01°37.4379'E
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52°12.7768'N 01°37.4324'E
52°12.7642'N 01°37.4317'E
52°12.7582'N 01°37.4315'E
52°12.7415'N 01°37.4308'E
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52°12.7079'N 01°37.4298'E
52°12.7008'N 01°37.4296'E
52°12.6941'N 01°37.4298'E
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52°12.6811'N 01°37.4282'E
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52°12.6344'N 01°37.4237'E
52°12.6289'N 01°37.4232'E
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52°12.5589'N 01°37.4093'E
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52°12.5314'N 01°37.4065'E
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52°12.3721'N 01°37.3822'E
52°12.3604'N 01°37.3802'E
52°12.3568'N 01°37.3795'E
52°12.3497'N 01°37.3784'E
52°12.3417'N 01°37.3772'E
52°12.3414'N 01°37.3777'E

52°12.3414'N 01°37.3793'E
52°12.3414'N 01°37.3827'E
52°12.3414'N 01°37.3877'E
52°12.3414'N 01°37.3884'E
52°12.3414'N 01°37.3919'E
52°12.3412'N 01°37.3941'E
52°12.3412'N 01°37.3962'E
52°12.3414'N 01°37.3990'E
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52°12.3400'N 01°37.4250'E
52°12.3400'N 01°37.4282'E
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52°12.3394'N 01°37.4388'E
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52°12.3391'N 01°37.4456'E
52°12.3389'N 01°37.4504'E
52°12.3387'N 01°37.4516'E
52°12.3387'N 01°37.4555'E
52°12.3387'N 01°37.4566'E
52°12.3387'N 01°37.4589'E
52°12.3391'N 01°37.4605'E
52°12.3394'N 01°37.4624'E
52°12.3396'N 01°37.4644'E

52°12.3396'N 01°37.4662'E
52°12.3366'N 01°37.5379'E
52°12.3350'N 01°37.6278'E
52°12.3467'N 01°37.7109'E
52°12.3611'N 01°37.7855'E
52°12.3771'N 01°37.8723'E
52°12.3840'N 01°37.8949'E
52°12.3842'N 01°37.8963'E
52°12.3858'N 01°37.9036'E
52°12.3861'N 01°37.9050'E
52°12.3943'N 01°37.9625'E
52°12.4051'N 01°38.0183'E
52°12.4053'N 01°38.0192'E
52°12.4089'N 01°38.0449'E
52°12.4112'N 01°38.0581'E
52°12.4115'N 01°38.0602'E
52°12.4133'N 01°38.0861'E
52°12.4165'N 01°38.1115'E
52°12.4183'N 01°38.1284'E
52°12.4218'N 01°38.1451'E
52°12.4220'N 01°38.1458'E
52°12.4286'N 01°38.1820'E
52°12.4289'N 01°38.1831'E
52°12.4289'N 01°38.1849'E
52°12.4300'N 01°38.2147'E
52°12.4373'N 01°38.2575'E
52°12.4446'N 01°38.2991'E
52°12.4449'N 01°38.3001'E
52°12.4460'N 01°38.3094'E
52°12.4554'N 01°38.3900'E
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51°59.6309'N 01°58.3279'E
51°59.6469'N 01°58.3158'E
51°59.6623'N 01°58.3018'E
51°59.6772'N 01°58.2865'E
51°59.6914'N 01°58.2695'E
51°59.7049'N 01°58.2510'E
51°59.7177'N 01°58.2311'E
51°59.7296'N 01°58.2100'E
51°59.7406'N 01°58.1876'E
51°59.7477'N 01°58.1711'E
51°59.9688'N 01°57.6406'E
52°00.1537'N 01°57.1965'E

52°00.8664'N 01°55.4834'E
52°00.8901'N 01°54.7039'E
52°00.8901'N 01°54.7033'E
52°00.8916'N 01°54.6748'E
52°00.8942'N 01°54.6466'E
52°00.8980'N 01°54.6186'E
52°00.9028'N 01°54.5911'E
52°00.9088'N 01°54.5642'E
52°00.9158'N 01°54.5380'E
52°00.9239'N 01°54.5125'E
52°00.9330'N 01°54.4880'E
52°00.9431'N 01°54.4645'E
52°00.9541'N 01°54.4421'E
52°00.9659'N 01°54.4210'E
52°00.9786'N 01°54.4011'E
52°00.9921'N 01°54.3826'E
52°01.0063'N 01°54.3656'E
52°01.0212'N 01°54.3501'E
52°01.0366'N 01°54.3363'E
52°01.0526'N 01°54.3241'E
52°01.0690'N 01°54.3136'E
52°01.0858'N 01°54.3049'E
52°01.1029'N 01°54.2980'E
52°01.1203'N 01°54.2929'E
52°01.1378'N 01°54.2897'E
52°01.1554'N 01°54.2883'E
52°01.1731'N 01°54.2888'E
52°01.1739'N 01°54.2889'E
52°01.3461'N 01°54.3037'E
52°01.4302'N 01°54.1982'E
52°01.4322'N 01°54.1954'E

52°01.4457'N 01°54.1769'E
52°01.4585'N 01°54.1570'E
52°01.4705'N 01°54.1359'E
52°01.4814'N 01°54.1135'E
52°01.4915'N 01°54.0899'E
52°01.5004'N 01°54.0654'E
52°01.5087'N 01°54.0400'E
52°01.5155'N 01°54.0137'E
52°01.5215'N 01°53.9869'E
52°01.5222'N 01°53.9840'E
52°01.8319'N 01°52.3889'E
52°01.8666'N 01°52.3179'E
52°02.0443'N 01°52.2273'E
52°02.3095'N 01°52.1122'E
52°02.3137'N 01°52.1103'E
52°02.3304'N 01°52.1016'E
52°02.3468'N 01°52.0911'E
52°02.3626'N 01°52.0787'E
52°02.3782'N 01°52.0650'E
52°02.3871'N 01°52.0559'E
52°02.6080'N 01°51.8219'E
52°02.6137'N 01°51.8155'E
52°02.6279'N 01°51.7986'E
52°02.6414'N 01°51.7801'E
52°02.6524'N 01°51.7631'E
52°02.9905'N 01°51.2081'E
52°02.9923'N 01°51.2051'E
52°03.0042'N 01°51.1838'E
52°03.0149'N 01°51.1614'E
52°03.0250'N 01°51.1378'E
52°03.0342'N 01°51.1133'E

52°03.0422'N 01°51.0879'E
52°03.0493'N 01°51.0616'E
52°03.0504'N 01°51.0566'E
52°03.1118'N 01°50.7961'E
52°03.1166'N 01°50.7741'E
52°03.1214'N 01°50.7467'E
52°03.1253'N 01°50.7187'E
52°03.1260'N 01°50.7112'E
52°03.1619'N 01°50.3573'E
52°03.1637'N 01°50.3365'E
52°03.1651'N 01°50.3079'E
52°03.1655'N 01°50.2793'E
52°03.1646'N 01°50.2507'E
52°03.1626'N 01°50.2223'E
52°03.1594'N 01°50.1941'E
52°03.1553'N 01°50.1662'E
52°03.1527'N 01°50.1538'E
52°03.1040'N 01°49.9044'E
52°03.1001'N 01°49.6512'E
52°04.3546'N 01°47.8437'E
52°05.6544'N 01°47.8167'E
52°05.6556'N 01°47.8167'E
52°05.6732'N 01°47.8154'E
52°05.6906'N 01°47.8119'E
52°05.7080'N 01°47.8069'E
52°05.7251'N 01°47.7998'E
52°05.7421'N 01°47.7911'E
52°05.7583'N 01°47.7806'E
52°05.7743'N 01°47.7684'E
52°05.7897'N 01°47.7545'E
52°05.8046'N 01°47.7389'E

52°05.8187'N 01°47.7218'E
52°05.8261'N 01°47.7119'E
52°06.7954'N 01°46.3681'E
52°07.2488'N 01°46.2443'E
52°07.2612'N 01°46.2404'E
52°07.2783'N 01°46.2336'E
52°07.2953'N 01°46.2246'E
52°07.3115'N 01°46.2141'E
52°07.3275'N 01°46.2020'E
52°07.3429'N 01°46.1880'E
52°07.3577'N 01°46.1724'E
52°07.3719'N 01°46.1553'E
52°07.3854'N 01°46.1367'E
52°07.3884'N 01°46.1322'E
52°08.8933'N 01°43.8431'E
52°11.8940'N 01°41.8516'E
52°12.5774'N 01°41.3975'E
52°12.5882'N 01°41.3902'E
52°12.6980'N 01°41.3179'E
52°12.7958'N 01°41.2471'E

## 2. Licence schedule 2

### Galloper\_ECR\_Boundary\_2

51°53.7160'N 02°01.6145'E
51°53.4507'N 02°00.6983'E
51°53.4620'N 02°00.7374'E
51°48.8111'N 02°00.6100'E
51°49.0289'N 02°01.4897'E
51°53.7160'N 02°01.6145'E

### 3. Licence schedule 3

#### Galloper\_WF\_Boundary\_1

51°59.2841'N 01°57.5946'E
51°59.2751'N 01°57.6098'E
51°59.2739'N 01°57.6119'E
51°59.2675'N 01°57.6218'E
51°59.2608'N 01°57.6310'E
51°59.2537'N 01°57.6394'E
51°59.2462'N 01°57.6470'E
51°59.2405'N 01°57.6523'E
51°59.2376'N 01°57.6547'E
51°59.2356'N 01°57.6564'E
51°59.2276'N 01°57.6625'E
51°59.2194'N 01°57.6676'E
51°59.2170'N 01°57.6689'E
51°59.2040'N 01°57.6759'E
51°59.1980'N 01°57.6789'E
51°59.1901'N 01°57.6821'E
51°59.1726'N 01°57.6882'E
51°59.1632'N 01°57.6909'E
51°59.1588'N 01°57.6918'E
51°59.0758'N 01°57.7064'E
51°59.0162'N 01°57.7187'E
51°58.9711'N 01°57.7289'E
51°58.9353'N 01°57.7383'E
51°58.9327'N 01°57.7390'E
51°58.9314'N 01°57.7393'E
51°58.7922'N 01°57.7692'E
51°58.7713'N 01°57.7744'E
51°58.7664'N 01°57.7762'E

51°58.7638'N 01°57.7775'E
51°58.7100'N 01°57.8257'E
51°58.7100'N 02°00.0000'E
51°53.2501'N 02°00.0000'E
51°55.6306'N 02°08.2418'E
51°57.2287'N 02°08.7397'E
51°58.5628'N 02°08.7445'E
51°58.9357'N 02°07.8526'E
51°59.2063'N 02°06.9832'E
51°59.2242'N 02°06.5018'E
51°59.3471'N 02°05.8997'E
51°59.5009'N 02°05.5886'E
51°59.9935'N 01°59.5150'E
51°59.2841'N 01°57.5946'E

## 4. Licence schedule 4

### Galloper\_WF\_Boundary\_2

51°50.2863'N 02°06.5811'E
51°48.6601'N 02°00.0000'E
51°45.2400'N 02°00.0000'E
51°44.0549'N 01°56.5291'E
51°44.0552'N 01°56.5284'E
51°44.0620'N 01°56.5106'E
51°44.0941'N 01°56.4257'E
51°44.2001'N 01°56.1627'E
51°45.9601'N 01°54.9841'E
51°47.3005'N 01°55.7705'E
51°47.4600'N 01°55.4232'E
51°47.5789'N 01°55.4143'E
51°46.8596'N 01°52.9288'E
51°45.5300'N 01°52.4569'E
51°43.9800'N 01°56.3099'E
51°43.3755'N 01°57.9028'E
51°45.6686'N 02°05.1517'E
51°50.2863'N 02°06.5811'E