

# EXERCISE LANCASTER

IVAO XU SPECIAL OPERATIONS DEPARTMENT



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## 1 GENERAL

### 1.1 OVERVIEW

Tactical Bombing and Strafing runs are a key part of a modern air force using a wide range of aircraft from Multi Role Fighters all the way to Attack Helicopters and Gunships. This event is to help put those skills into practise using the RAF's Holbeach Bombing Range in Lincolnshire.

### 1.2 OBJECTIVES

- 1.2.1 To run a logistically smooth exercise.
- 1.2.2 To conduct safe bombing operations
- 1.2.3 To conduct safe strafing runs

### 1.3 DATE AND TIME

- 1.3.1 **Date:** 5<sup>th</sup> May 2024
- 1.3.2 **Time:** 1300z-1700z

### 1.4 VERBAL BRIEFING

- 1.4.1 Attendance for the briefing **IS OPTIONAL.**
- 1.4.2 A verbal Briefing will take place at:
  - Time - 1230z
  - Server - IVAO Special Exercises Department Discord
  - Room- #event-voice-1

## 1.5 DEFINITIONS

1.5.1 The following are definitions of some acronyms used throughout this document:

TERM	EXPLANATION
<b>GAT</b>	General Air Traffic (e.g. Filed IFR or VFR under S, N or G)
<b>OAT</b>	Operational Air Traffic (e.g. Filed IFR or VFR under M)
<b>TACAN</b>	Tactical Air Navigation System
<b>RAF</b>	Royal Air Force
<b>XU</b>	IVAO United Kingdom and Ireland Division
<b>AARA</b>	Air to Air Refuelling Area

## 2 PILOTS

### 2.1 GUIDELINES

- 2.1.1 Aircraft must be suitable for their task they are planning on completing.
- 2.1.2 General aviation will not be allowed to operate at RAF Coningsby and RAF Marham for the duration of the event.
- 2.1.3 Pilots **MUST** register before the event if they wish to take part in the exercise.
- 2.1.4 Formations/Groups will be permitted to participate in the exercise.
- 2.1.5 It is recommended that aircraft arriving from another country **should** operate as GAT until reaching UK airspace.

### 2.2 ARRIVAL

- 2.2.1 Pilots wanting to fly in for the event **MUST** arrive within 20 minutes before the beginning of the event, if wishing to fly in at their designated airfields.
- 2.2.2 Pilots are reminded that all airspace above FL195 in the United Kingdom is Class C airspace and must obtain clearance before entering this airspace.

### 2.3 RULES

- 2.3.1 Pilots must be parked on the ramp with engine off for the beginning of the main event (1300z-1700z).
- 2.3.2 Pilots are **NOT PERMITTED** to exceed Mach 0.95 at any time during the event unless ATC permission is granted.

## 2.4 AIRFRAMES

2.4.1 Multiple types of aircraft will be usable for the Exercise:

1. Multi Role Fighter Jets capable of fulfilling the role of either interceptor or strike aircraft such as the F-16, Eurofighter, F-35, SU-27, MiG29, Rafale and others
2. Attack Helicopters such as the AH-64 Apache, Mil-24 and KA-52
3. Gunships such as the AC-130

## 3 CONTROLLERS

### 3.1 GUIDELINES

- 3.1.1 Controllers must have an in-depth understanding of the exercises and phraseology of Special Exercises in the United Kingdom and Ireland Division.
- 3.1.2 Controllers should be understanding and accommodating of pilots who are unfamiliar with Special Exercises phraseology and procedures and should assist where possible.
- 3.1.3 Controllers must use clear English when there is an apparent misunderstanding in instructions.

### 3.1 POSITIONS

3.1.1 The following positions will be available during the event:

POSITION	CALLSIGN	FREQUENCY
EGVV_CTR	Swanwick Military	127.450
EGXC_APP	Coningsby Approach	119.200
EGYM_APP	Marham Director	124.150

## 4 Assistance

### 4.1 Division Wiki

IVAO United Kingdom and Ireland offer a Wikipedia style information site which can be used for nearly all the information required to fly and control for the event. The following areas are available:

**Air Traffic Controller (Generic)** - <https://wiki.ivao.aero/en/home/divisions/xu/atc>

**Pilot (Generic)** - [https://wiki.ivao.aero/en/home/training/main/pilot\\_documentation](https://wiki.ivao.aero/en/home/training/main/pilot_documentation)

**Special Operations Phraseology** - <https://xu.ivao.aero/soPhraseology>

**Special Operations (Division)** - <https://wiki.ivao.aero/en/home/divisions/xu/soc>

### 4.2 Email/Forum/Discord

Leading up to this event, you can contact the Special Exercises Department of IVAO United Kingdom and Ireland using the following means:

Purpose	Means	Notes
Email	<a href="mailto:xu-soc@ivao.aero">xu-soc@ivao.aero</a>	
Forum	<a href="http://xu.forum.ivao.aero">http://xu.forum.ivao.aero</a>	
Discord	<a href="http://xu.ivao.aero/discord">http://xu.ivao.aero/discord</a>	IVAO XU Members only.
	<a href="https://sod.ivao.aero/discord">https://sod.ivao.aero/discord</a>	IVAO HQ-SOD Discord, Look for 'XU-SOC'

### 4.3 PROCEDURES

- 4.3.1 Before and during the event XU staff (And experienced XU members) will be available to assist with understanding and completing the necessary procedures for this mission.
- 4.3.2 This is a training exercise; therefore, it is not expected that pilots know procedures fully.
- 4.3.3 As this exercise could be considered live fire, VRS TACPACK/X-PLANE Native Weapons use is allowed.

## 4.4 Exercise Location

Area Type, Activity, and Identification	Conditions of Use	Lateral Limits	Vertical Limits	Activation Details
Danger Area D207 HOLBEACH (Range)	Reserved and designated for exclusive use by SO flights only, crossing allowed at pilot's own risk.	524830N0001200E-525400N0000633E-525649N0001038E-525642N0002055E-525300N0002430E-524830N0002000E-524830N0001200E	FL230 SFC	Permanently Active



## 5 EXERCISE PLAN

### 5.1 SITUATION

- 5.1.1 All aircraft are at their designated bases ready for the training exercise.
- 5.1.2 Weather will be briefed in the verbal brief on the day.

### 5.2 MISSION

- 5.2.1 Multirole Fighters: To safely undertake Bombing and Strafing runs on the Bombing Range.
- 5.2.2 Attack Helicopters: To safely undertake Rocket and Strafing runs on the Bombing Range.
- 5.2.3 Gunships: To safely undertake Strafing runs on the Bombing Range.

### 5.3 Execution

- 5.3.1 All Aircraft will start at either RAF Marham or RAF Coningsby.
- 5.3.2 The Aircraft on take off will fly over the ocean before turning towards the range itself.
- 5.3.3 On arrival on the range and with approval from ATC, the Aircraft will carry out their run on the range either once or twice depending on the load out.
- 5.3.4 On completion of the run, the aircraft will either return over the sea or head back to base to rearm.
- 5.3.5 For those flying in a group or a SOG who maybe able to use or wish to use a Air to Air Refuelling Tanker, AARA8 can be made available if required.

### 5.4 SIGNAL (COMMUNICATION)

- 5.4.1 A briefing will be held in the [SO-HQ discord](#) in #event-voice-1 at 1505z
- 5.4.2 The event will be running via standard Area positions making use of EGVV\_CTR (Swanwick Military) with Approach positions for the airports being controlled.



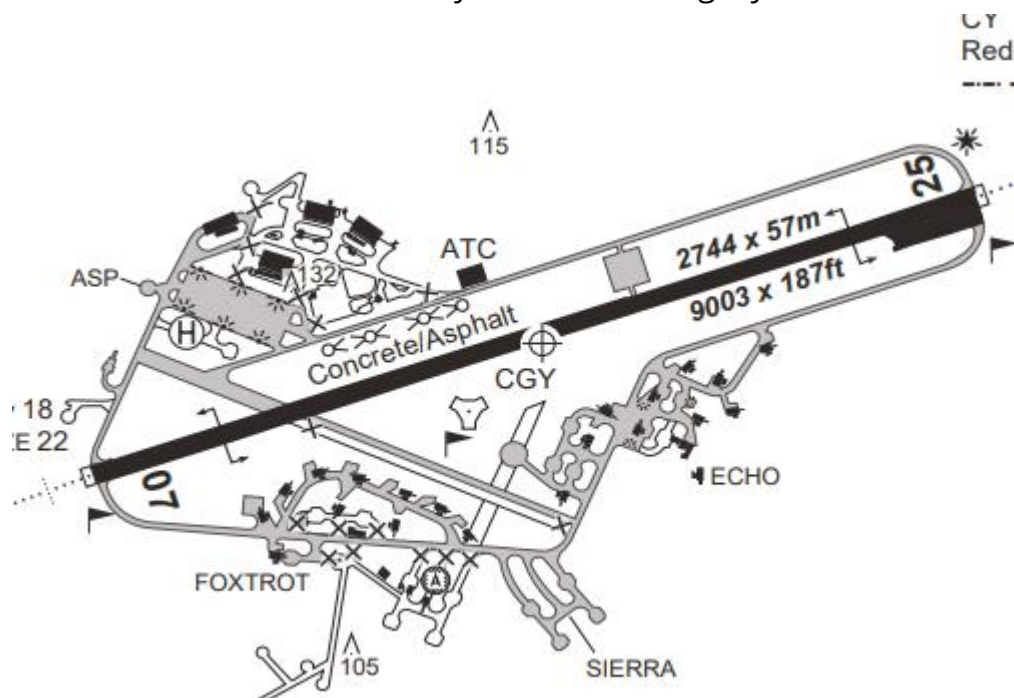
## 6 AIRFIELD AND CHARTS

### 6.1 CHARTS

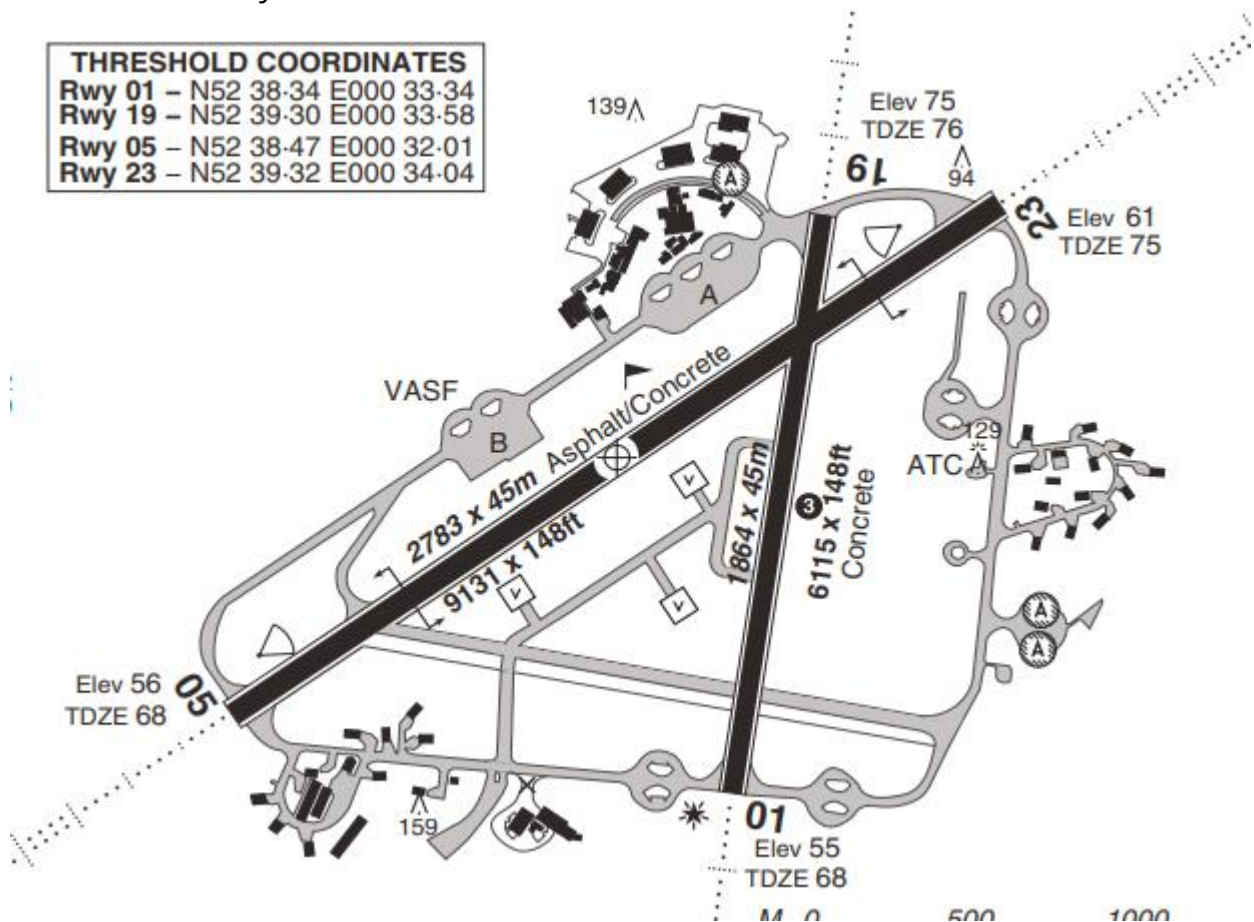
6.1.1 The following resources are available:

Resource	Link
Military AIP (United Kingdom)	<a href="https://www.aidu.mod.uk/aip/aipVolumes.html">https://www.aidu.mod.uk/aip/aipVolumes.html</a>
Civil AIP (United Kingdom)	<a href="https://nats-uk.ead-it.com/cms-nats/opencms/en/Publications/AIP/">https://nats-uk.ead-it.com/cms-nats/opencms/en/Publications/AIP/</a>
Charts for EGXC	<a href="https://www.aidu.mod.uk/aip/pdf/ad/EGXC-Coningsby-Combined.pdf">https://www.aidu.mod.uk/aip/pdf/ad/EGXC-Coningsby-Combined.pdf</a>
Charts for EGYM	<a href="https://www.aidu.mod.uk/aip/pdf/ad/EGYM-Marham-Combined.pdf">https://www.aidu.mod.uk/aip/pdf/ad/EGYM-Marham-Combined.pdf</a>
SO Order (IVAO XU)	<a href="https://sod.ivao.aero/up/order/b1e0633bc4145febc89844619e9d15b8.PDF">https://sod.ivao.aero/up/order/b1e0633bc4145febc89844619e9d15b8.PDF</a>

6.1.2 **RAF Coningsby Ground Chart.** The following resource is a map of the taxiways for RAF Coningsby:



6.1.3 **RAF Marham Ground Chart.** The following resource is a map of the taxiways for RAF Marham:



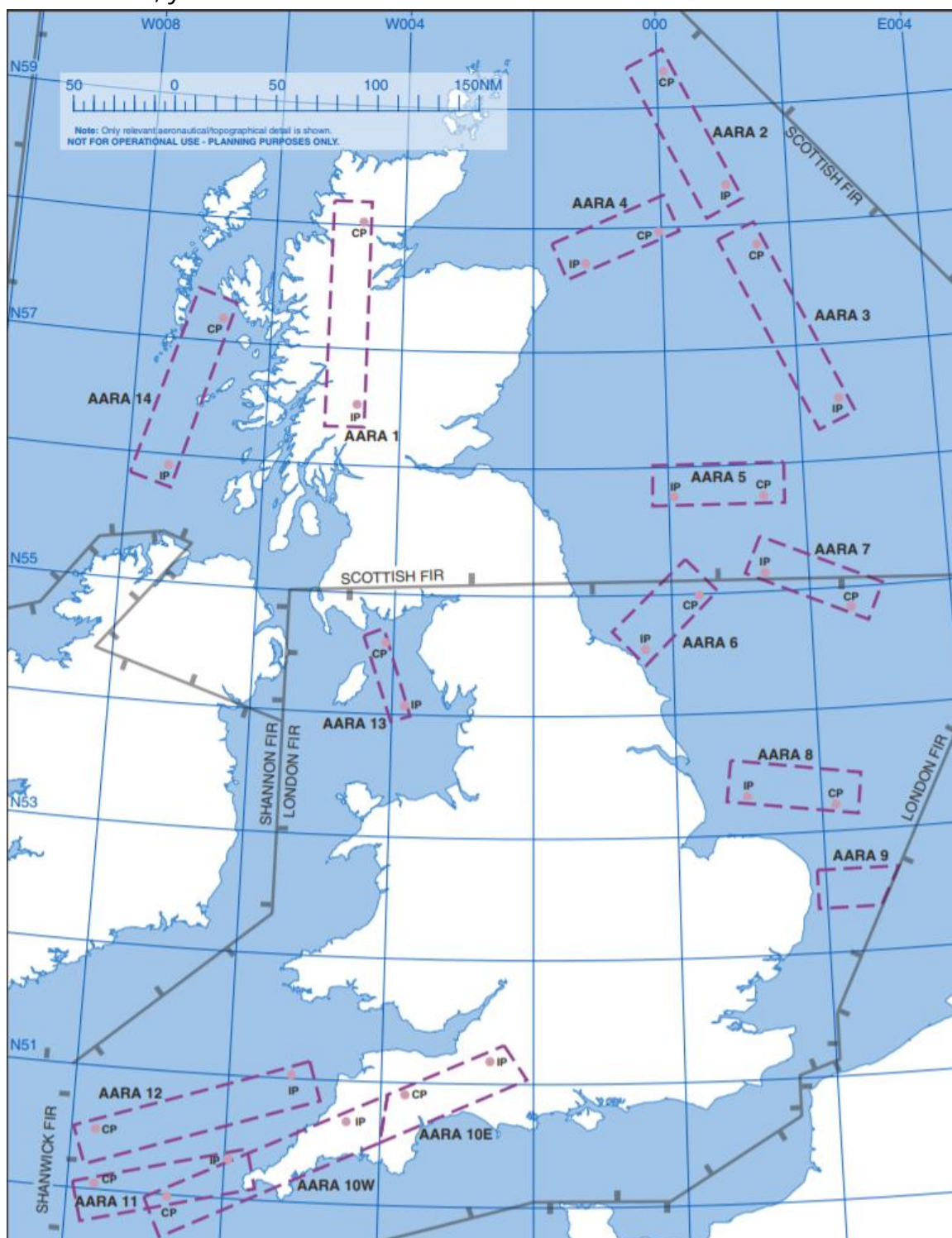
6.1.4 **TACAN Routing.** The following chart shows the routing available from the edge of airspace in the United Kingdom.



6.1.4.1 **TACAN Documentation** - <https://www.aidu.mod.uk/aip/pdf/enr/ENR-4-1.pdf>



6.1.5 **AARA Areas.** The following chart shows the Air to Air Refuelling Areas (AARA) in the United Kingdom. If you wish to make use of them with a suitable tanker, you are welcome too.



6.1.5.1 **Air to Air Refuelling areas** - <https://www.aidu.mod.uk/aip/pdf/enr/ENR-6-14.pdf>

6.1.6 **Navigational Aids.** The following local navigational aids are available:

NAME	ID	TYPE	FREQ
Coningsby	CGY	TACAN	111.100
Marham	MRH	VOR/DME	108.700
Cranwell	CWZ	VOR/DME	117.400
Wittering	WIK	VOR/DME	117.600

## 6.2 FLIGHT PLANNING

6.2.1 For the event an operational flight plan may be used below:

Route: //

FL: VFR

Speed: N400

Remarks: RMK/EXERCISE LANCASTER

## 6.3 AIRFIELD INFO

6.3.1 The following runways will be in use at RAF Coningsby:

RUNWAY	LENGTH	ILS	CIRCUIT	HEIGHT
07	2744m	N/A	Right Hand	<b>1000ft QFE</b> Run-in and Break 1000ft QFE
25	2744m	111.15	Left Hand	

6.3.2 The following runways will be in use at RAF Marham:

RUNWAY	LENGTH	ILS	CIRCUIT	HEIGHT
05	2783m	N/A	Left Hand	<b>1000ft QFE</b> Run-in and Break 1000ft QFE
23	2783m	110.750	Right Hand	
01	1864m	N/A	Right Hand	
19	1864m	N/A	Left Hand	

## 6.4 FREQUENCY'S

6.4.1 The following frequencies will be in use:

POSITION	CALLSIGN	FREQUENCY
EGVV_CTR	Swanwick Military	127.450
EGXC_APP	Coningsby Approach	119.200
EGYM_APP	Marham Director	124.150

## 6.5 SCENERY

6.5.1 While scenery will not be enforced for this event, it is strongly advised you use the following scenery to enhance your experience. RAF Coningsby:

PLATFORM	LINK
FSX, FSX:SE, P3Dv1-3	<a href="https://www.justflight.com/product/raf-coningsby-freeware-by-john-young-ukmil">https://www.justflight.com/product/raf-coningsby-freeware-by-john-young-ukmil</a>
P3Dv4-5	<a href="https://militaryaiworks.com/download-hangar/file-library/download/10-scenery/2026-scenery-egxc-raf-coningsby-for-p3d-united-kingdom">https://militaryaiworks.com/download-hangar/file-library/download/10-scenery/2026-scenery-egxc-raf-coningsby-for-p3d-united-kingdom</a>
X Plane 11	<a href="https://forums.x-plane.org/index.php?/files/file/16692-raf-coningsby-dkm/">https://forums.x-plane.org/index.php?/files/file/16692-raf-coningsby-dkm/</a> (Default is excellent quality)
MSFS2020	<a href="https://flightsim.to/file/10045/egxc-raf-coningsby">https://flightsim.to/file/10045/egxc-raf-coningsby</a>

6.5.2 RAF Marham

PLATFORM	LINK
FSX, FSX:SE, P3Dv1-4	<a href="https://flyawaysimulation.com/downloads/files/8083/fsx-raf-marham-scenery/">https://flyawaysimulation.com/downloads/files/8083/fsx-raf-marham-scenery/</a>
X Plane 11	<a href="https://forums.x-plane.org/index.php?/files/file/20958-raf-marham-egym/">https://forums.x-plane.org/index.php?/files/file/20958-raf-marham-egym/</a> (Default is excellent quality)
MSFS2020	<a href="https://flightsim.to/file/27131/raf-marham-egym">https://flightsim.to/file/27131/raf-marham-egym</a>

## 6.5.3 RAF Holbeach

PLATFORM	LINK
FSX, FSX:SE, P3Dv1-4	<a href="https://www.mediafire.com/download/ckx22e3f5on2g67/Air_Weapons_Range.zip">https://www.mediafire.com/download/ckx22e3f5on2g67/Air_Weapons_Range.zip</a>
X Plane 11	<a href="https://forums.x-plane.org/index.php?/files/file/35994-raf-holbeach-egyh/">https://forums.x-plane.org/index.php?/files/file/35994-raf-holbeach-egyh/</a> (Default is excellent quality)
MSFS2020	<a href="https://flightsim.to/file/10029/raf-holbeach-eg-d207-air-weapons-range">https://flightsim.to/file/10029/raf-holbeach-eg-d207-air-weapons-range</a>