

# Wales Low Level Operations

IVAO XU SPECIAL OPERATIONS DEPARTMENT



## General

### Overview

LFA7 or Low Flying Area 7 is a section of the United Kingdom where Low Level operations regularly take place. It is also home to the famous Mach Loop popular with enthusiasts and photographers alike. This event aims to give you a taste of all the various areas of Wales though different routings though varied terrain. All the routes are designed differently for different aircraft and it of course includes the Mach Loop for those who wish to fly it.

### Date and Time

**Date:** 28/01/2023

**Time:** 14:00z-1700z

### Definitions

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>RAF</b>	Royal Air Force
<b>XU</b>	IVAO United Kingdom and Ireland Division

## Pilots

### Guidelines

- Aircraft must be suitable for their low level route they are planning on completing.
- General aviation will be allowed to operate at RAF Valley for the duration of the event.
- Pilots **MUST** register before the event if they wish to take part.
- Formations/Groups will be permitted to participate.
- It is recommended that aircraft arriving from another country **should** operate as GAT until reaching UK airspace.

### Arrival

- Pilots wanting to fly in for the event may arrive during the event.
- Pilots are reminded that all airspace above FL195 in the United Kingdom is Class C airspace and must obtain clearance before entering this airspace.

### Rules

- Special Operations pilots shall maintain separation from GAT traffic under supervision of ATC at all times.
- Pilots are **NOT PERMITTED** to exceed Mach 0.95 at any time during the event unless ATC permission is granted.

## Controllers

### Guidelines

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

### Positions

The following positions will be available during the event:

Position	Callsign	Frequency
EGVV_CTR	Swanwick Military	127.450
EGOV_APP	Valley Radar	125.225
EGOV_TWR	Valley Tower	122.100

## Assistance

### Wikipedia

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>

### 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> <a href="mailto:xu-soac@ivao.aero">xu-soac@ivao.aero</a>	
Forum	<a href="http://xu.forum.ivao.aero">http://xu.forum.ivao.aero</a>	
Discord	<a href="http://ivao.co.uk/discord">http://ivao.co.uk/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/XU-SOAC'

## Airfield and Charts

### Charts

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 Valley	<a href="https://www.aidu.mod.uk/aip/pdf/ad/EGOV-Valley-Combined.pdf">https://www.aidu.mod.uk/aip/pdf/ad/EGOV-Valley-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>



## Missions/Tasks

Pilots are to fly in or/and out of RAF valley for the event and are to complete at least one of the following missions/tasks but feel free to complete as many missions/tasks as you wish. Flight Plans for FS9, FSX, X-Plane 9/10/11, MSFS2020 and Plan G are all available from this link here -

[https://drive.google.com/drive/folders/1dWUM\\_iwCFFXaYVjYtQgoAe05j5kaWtw?usp=share\\_link](https://drive.google.com/drive/folders/1dWUM_iwCFFXaYVjYtQgoAe05j5kaWtw?usp=share_link)

### 1. Low-level Route 1 – Mach Loop

#### Aircraft Type:

Jet Fighters/ Trainers, Light/ Medium Transport, Helicopters, Training aircraft.

#### Missions:

To maintain your low-level currency, you shall fly 3 laps of the Mach loop in Low flying area 7 (LFA7).

#### Route:

This flight will be conducted as VFR outside controlled airspace. Below is the advised route for the Mach loop but must fly your own navigation to the entry. The best way to navigate the route is visually via the river mouths and roads.

#### Entry:

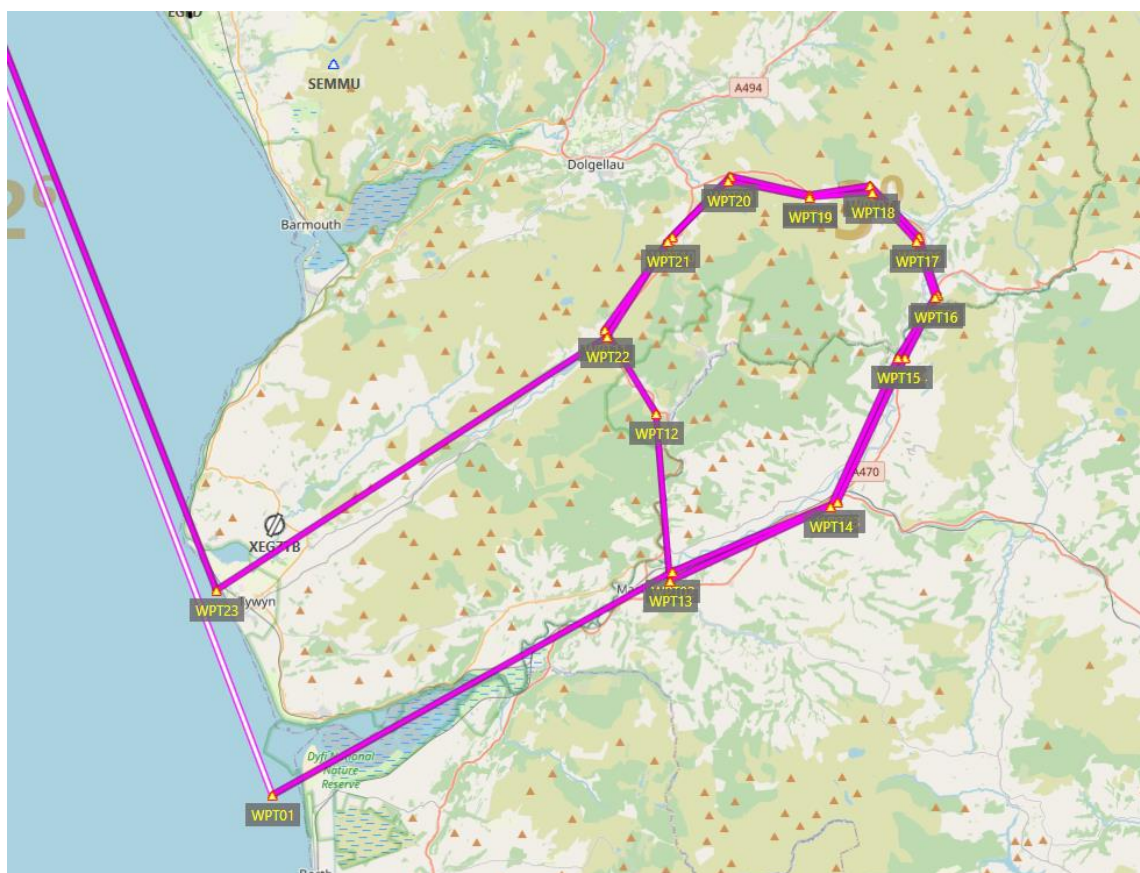
523159N0040334W 523541N0035149W

#### Loop:

523735N0034409W 524122N0034144W 524318N0034140W 524414N0034446W 524446N0034653W 524254N0035035W 524052N0035303W 524009N0035217W 523922N0035057W 523805N0035035W 523648N0035100W

#### Exit:

524009N0035427W 523447N0040645W



## 2. Low-level Route 2 - Wales North

### Aircraft Type:

Jet Fighters/ Trainers.

### Missions:

To maintain your low-level currency, you shall fly a pre-set low-level route through the North of Wales in Low flying area 7 (LFA7).

### Route:

This flight will be conducted as VFR outside controlled airspace. Below is the advised route for the Mach loop but must fly your own navigation to the entry. The best way to navigate the route is visually via the river mouths and roads.

### Entry:

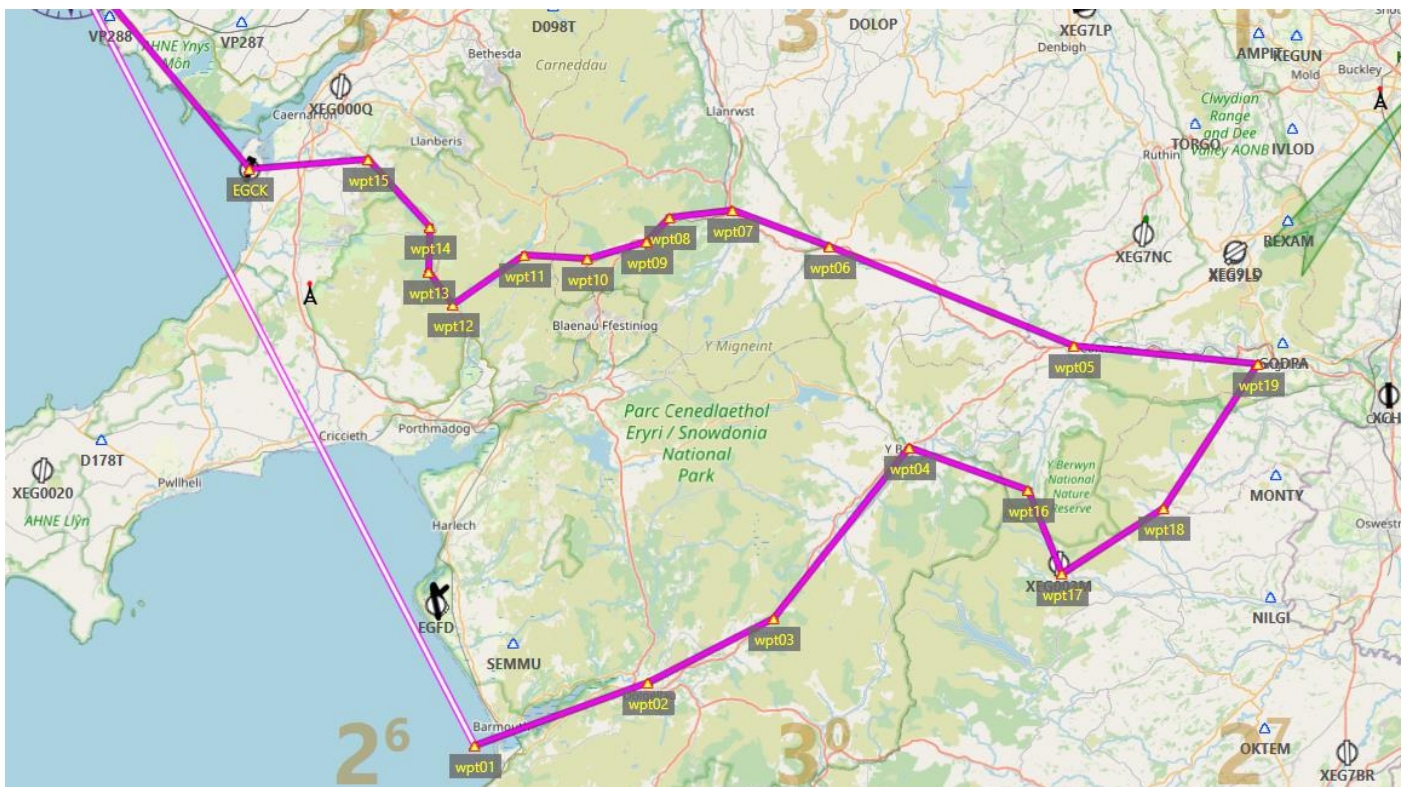
524225N040455W

### Loop:

524501N035313W 524741N034436W 525441N033520W 525255N032718W 524930N032500W  
525211N031805W 525806N031139W 525849N032410W 530255N034051W 530422N034727W  
530506N035144W 530308N035316W 530225N035720W 530235N040137W 530033N040628W  
530151N040805W 530343N040801W 530606N042015W

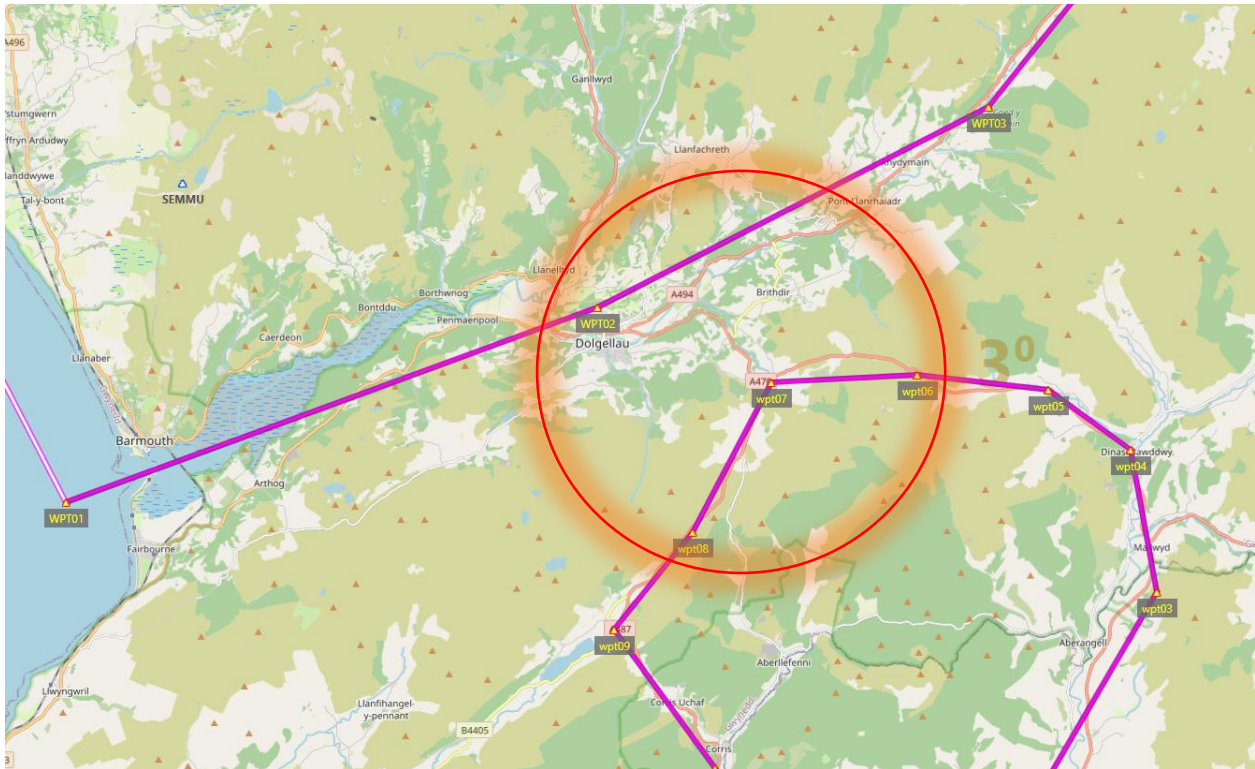
### Exit:

530628N042015W or EGCK Caernarfon Overhead

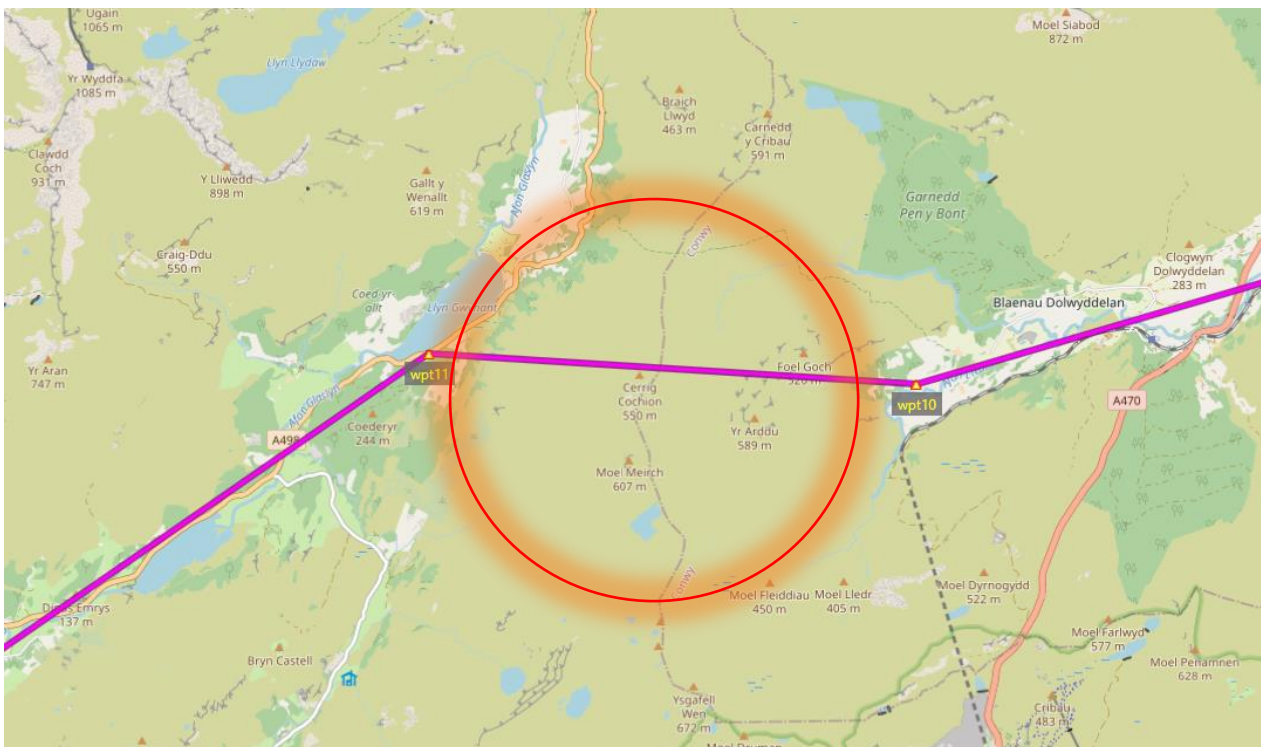


### Low-level Route 1/2 – Cautions/Areas of note

When flying either Route 1 or Route 2, pilots are advised to be cautious on sections of both routes due to their proximity to each other. As such pilots are advised to fly on the left hand side of the valley and to maintain their own separation.



On Route 2, there is a section where you switch from valley to valley over a raised area of land. Pilots are advised to be wary of this and plan accordingly.





### 3. Low-level Route 3 - Wales South

#### Aircraft Type:

Jet Fighters/ Trainers, Light/ Medium/Heavy Transport, Helicopters, Training aircraft.

#### Missions:

To maintain your low-level currency, you shall fly a pre-set low-level route through the South of Wales in Low flying area 7 (LFA7).

#### Route:

This flight will be conducted as VFR outside controlled airspace. Below is the advised route for the Mach loop but must fly your own navigation to the entry. The best way to navigate the route is visually via the river mouths and roads.

#### Entry:

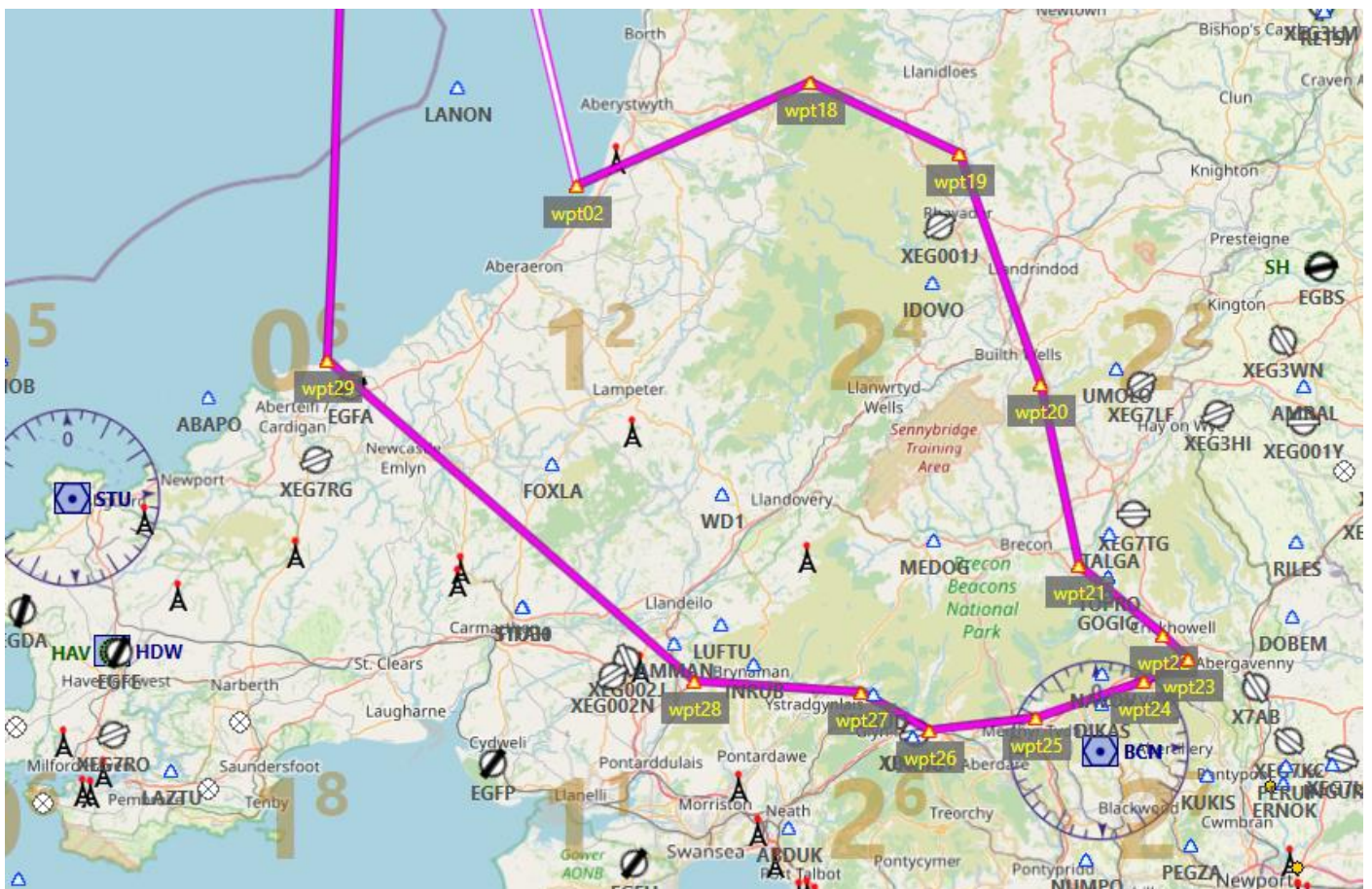
521937N040959W

#### Loop:

522609N034541W 522140N033016W 520702N032157W 515529N031750W 515057N030911W  
514926N030637W 514757N031109W 514539N032217W 514453N033324W 514714N034034W  
514803N035747W

#### Exit:

520830N043547W



## Navigational Aids

The following local navigational aids are available:

Name	ID	Type	Freq	Distance	Bearing (From EGOV)
Valley	VYL	TACAN	108.4	N/A	N/A
Welshpool	WPL	VOR/DME	115.95	62NM	140°
Shobdon	SH	ADF	426.0	85NM	149°
Gloucestershire	GST	ADF	331.0	--	--
Brize Norton	BZN	TACAN	111.90	--	--
Chiltern	CHT	ADF	277.0	--	--

## Airfield Info

The following runways will be in use:

Runway	Length	ILS	Circuit	Height
01	1572m	N/A	Right Hand	<b>1000ft QFE</b> Run-in and Break 1000ft QFE
13	2290m	108.55	Right Hand	
19	1572m	N/A	Left Hand	
31	2290m	N/A	Left Hand	

## Frequency's

The following frequencies will be in use:

Position	Callsign	Frequency
<b>EGVV_CTR</b>	Swanwick Military	127.450
<b>EGOV_APP</b>	Valley Radar	125.225
<b>EGOV_TWR</b>	Valley Tower	122.100

## Scenery

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

Platform	Link
<b>FSX, FSX:SE, P3Dv1-3</b>	<a href="https://flyawaysimulation.com/downloads/files/8029/fsx-raf-valley-scenery/">https://flyawaysimulation.com/downloads/files/8029/fsx-raf-valley-scenery/</a>
<b>P3Dv4+</b>	<a href="https://militaryaiworks.com/download-hangar/file-library/download/10-scenery/1521-scenery-egov-raf-valley-mspg-simulations-p3dv4-2019-united-kingdom">https://militaryaiworks.com/download-hangar/file-library/download/10-scenery/1521-scenery-egov-raf-valley-mspg-simulations-p3dv4-2019-united-kingdom</a>
<b>X Plane 11</b>	<a href="https://forums.x-plane.org/index.php?/files/file/43714-egov-raf-valley-for-x-plane-11/">https://forums.x-plane.org/index.php?/files/file/43714-egov-raf-valley-for-x-plane-11/</a>
<b>MSFS</b>	<a href="https://flightsim.to/file/9361/egov-raf-valley-custom-built">https://flightsim.to/file/9361/egov-raf-valley-custom-built</a>