



**United Kingdom and Ireland  
Special Operations Department**

# **Royal International Air Tattoo Fairford Airshow**

**19<sup>th</sup> August 2023**





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## Overview

Every year the largest military Airshow in the world is held at RAF Fairford in the United Kingdom, with both civil and military aircraft showing their prowess in the skies above Gloucestershire.

Therefore, the United Kingdom and Irelands Special Operations Department would like to invite you to the “Fairford Airshow”. Come and display solo, in a formation or even park your aircraft on static display and enjoy the shows throughout the day. All aircraft are welcome, so come and show us what makes your aircraft special.

## Date and Time

**Date:** Saturday 19th August 2023

**Time:** 1200z – 1600z

## Definitions

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

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



## Guidelines

- Pilots **MUST** register before the Event if they wish to perform an air display or be parked on static display.
- Pilots that wish to fly in to watch the displays can fly any aircraft and will be parked on mass at parking area "BLACK".
- Pilots that do not perform an aerial display **WILL NOT** receive SO points.
- All movements inbound and outbound **WILL STOP** 30 minutes before the first display and any aircraft trying to arrive or depart after this time can be turned away at the discretion of the controllers.
- Temporary restricted airspace will be established for this Event and will be used as the display box.

## Arrival

RAF Fairford will be staffed the Monday before (14<sup>th</sup> August) between 1800z and 2100z for aircraft to position to the airfield ready for the air show.

### Points to note:

- This is not an official part of the Event but is provided to improve the experience.
- It is recommended that aircraft arriving from another country **SHOULD** operate as GAT until reaching UK airspace.
- Pilots are reminded that all Airspace above FL195 in the United Kingdom is Class C airspace and must obtain clearance before entering this airspace.

## Parking

Once an aircraft has registered for the Event whether it is for static or aerial display, they will be assigned a parking spot in one of the coloured parking areas. This will be displayed on a map that will be available [HERE](#).



## Displaying

- Displays may be solo or as a formation. Formation's wishing to display must register as such.
- All displaying aircraft **WILL** start from Fairford, the start of your display time is your take-off time.
- All displaying aircraft must land before the end of their display slot, if this is not done pilots may be asked to divert to RAF Brize Norton (EGVN).
- Pilots **MUST** stay within the display box for their full display once entering.
- Pilots **MUST** report to the controller their display is complete to receive their landing clearance.
- Pilots **MUST** only cross the display line when in straight level flight no lower than 200ft to either start and/or end their display if they wish.
- Displays **MUST NOT** exceed the 10-minute display slot. 20 Minute displays for Multiple aircraft maybe available depending on the number of pilots joining the airshow. Please contact the XU-SOC regarding this.
- Pilots **MUST** always keep above the display minima.
- Pilots will be assigned a display slot, but these may be delayed on the day.
- List of participants display slots will be posted and updated on the [SO-HQ forum](#).
- Display aircraft will remain on Tower frequency for their display.

## Display Line

The display line runs parallel to the runway 3 meters from the tarmacs southern edge, running to the airfield boundary and can be crossed only to start and/or finish the display. For this Event, the crowd area will be the area south of the display line, bounded by the airfield perimeter.



## Aircraft Display Minima

	MINIMUM SAFE HEIGHT FEET (ft)			
	Fixed Wing	Rotary Wing	Fixed Wing Formation	Rotary Wing Formation
<b>Level Flight <math>\leq 89^\circ</math> Angle of Bank (AOB)</b>	100	100	300	100
<b>Aerobatic Manoeuvres, Inverted Flight and Link Manoeuvres</b>	300	300	300	300
<b>Any other Manoeuvres</b>	300	100	300	100
<b>Crowd Area Overflight</b>	200			

## Controllers

- Controllers must have an in-depth understanding of the operations and phraseology of Special Operations in the United Kingdom and Ireland Division.
- Controllers should be understanding and accommodating of pilots who are unfamiliar with Special Operations 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:**

- EGVN\_APP / EGVV\_CTR – Brize Approach / Swanwick Military (South)
- EGVA\_TWR – Fairford Tower



Temporary restricted Airspace (TRA) will be established for use as the display box for this Event and is under the authority of Fairford Tower controller (or controller responsible for the Tower duties).

TEMPORARY RESTRICTED AREA ESTABLISHED WITHIN AREA BOUNDED BY STRAIGHT LINES JOINING  
SUCCESSIVELY: 514433N0020502W -514733N0014405W-515006N0012925W -515006N0012925W-514737N0012537W-  
514834N0011958W-514445N0011816W -5136N00128W-5135N00146W-513530N0020341W  
LOWER LIMIT: SFC  
UPPER LIMIT: FL085  
ACTIVATION: 12AUG23 1200 – 1600  
CONDITIONS OF USE: RESERVED AND DESIGNATED FOR EXCLUSIVE USE BY PARTICIPANTS OF “FAIRFORD AIRSHOW”  
SPECIAL OPERATIONS EVENT ONLY, NO OTHER AIR TRAFFIC SHALL ENTER RESTRICTED AREA

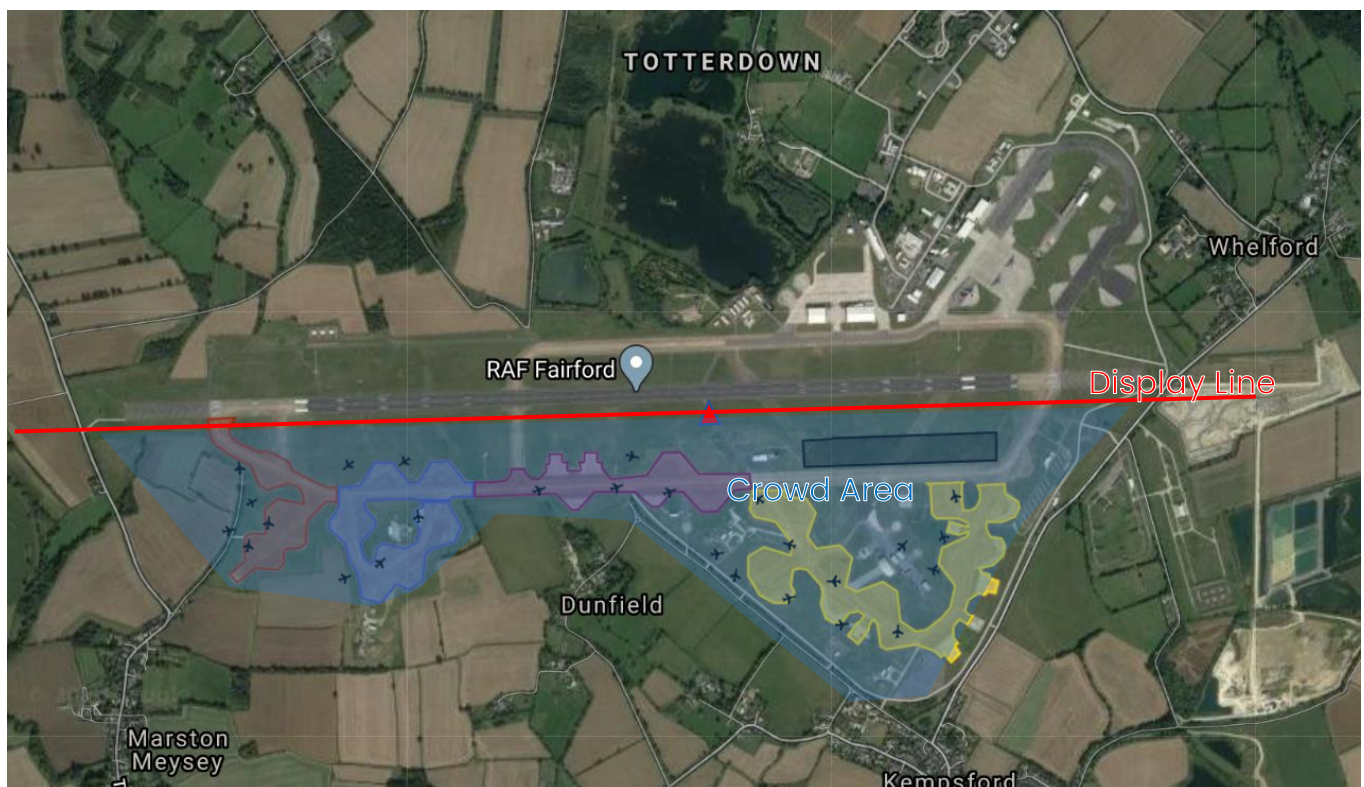
[illegible]

## Charts

The following resources are available:

RESOURCE	LINK
Military AIP (United Kingdom)	<a href="https://www.aidu.mod.uk/aip/">https://www.aidu.mod.uk/aip/</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 RAF Fairford	<a href="https://www.airfieldresearchgroup.org.uk/community/116562=10778-20030612%20Fairford.pdf">https://www.airfieldresearchgroup.org.uk/community/116562=10778-20030612%20Fairford.pdf</a>
Letter of Agreement (IVAO XU)	<a href="https://sod.ivao.aero/up/order/b1e0633bc4145febc89844619e9d15b8.PDF">https://sod.ivao.aero/up/order/b1e0633bc4145febc89844619e9d15b8.PDF</a>

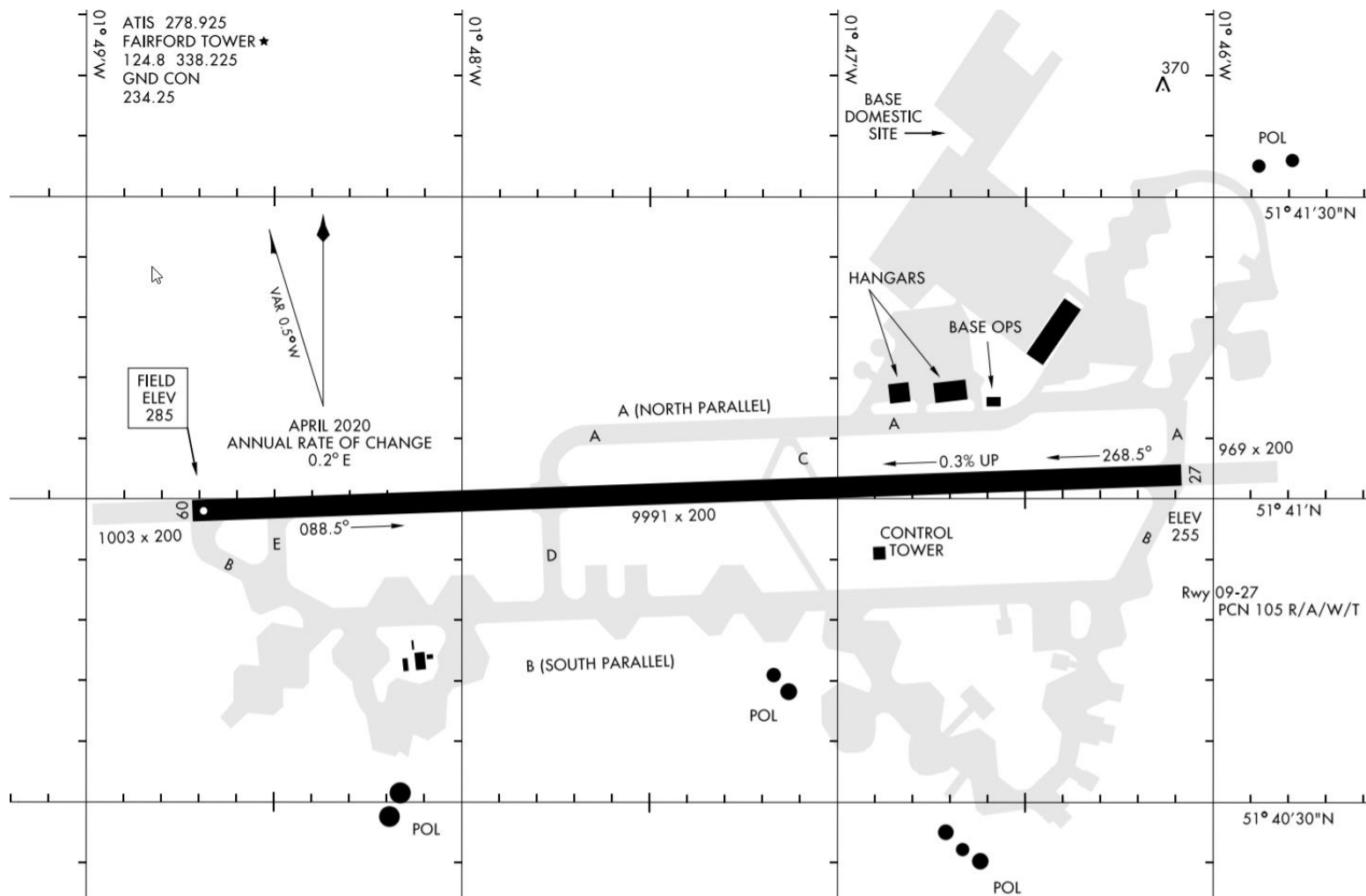
### RAF Fairford Ground Layout:







## RAF Fairford Ground Chart:



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



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



## Navigational Aids

**The following local navigational aids are available:**

NAME	ID	TYPE	FREQ	DISTANCE	BEARING (From EGVA)
FAIRFORD	FFA	TACAN	112.6	N/A	N/A
BRIZE NORTON	BZN	TACAN	111.9	8NM	065 °
COMPTON	CPT	VOR/DME	114.35	24NM	121 °

## Flight Planning

Pilots operating IFR at high altitude are advised to use the TACAN routing completing their route at the BZN (Brize Norton) TACAN at above FL050.

Pilots operating VFR are to use FFA TACAN as their last waypoint for navigation.

## Airfield Info

**The following runways will be in use:**

RUNWAY	LENGTH	ILS	CIRCUIT	HEIGHT
09	3045m	111.100/091°	LEFT Hand	<b>1000ft QFE</b>
27	3045M	109.000/271°	Right Hand	



## Frequency's

The following frequencies will be in use:

POSITION	CALLSIGN	FREQUENCY
<b>EGVV_CTR</b>	Swanwick Military (South)	127.450
<b>EGVN_APP</b>	Brize Approach	127.250
<b>EGVA_TWR</b>	Fairford Tower	124.800

## Scenery

While scenery will not be enforced for this Event, the available scenery is outdated but still usable:

PLATFORM	LINK
<b>FSX, FSX:SE, P3Dv1-5</b>	<a href="https://flyawaysimulation.com/downloads/files/7800/fsx-raf-fairford-2009-scenery/">https://flyawaysimulation.com/downloads/files/7800/fsx-raf-fairford-2009-scenery/</a>
<b>X Plane 11</b>	<a href="https://forums.x-plane.org/index.php?/files/file/17049-raf-fairford-dkm/">https://forums.x-plane.org/index.php?/files/file/17049-raf-fairford-dkm/</a> (Library issue present but no issue noticed and static aircraft can be removed)
<b>MSFS 2020</b>	<a href="https://flightsim.to/file/706/egva-raf-fairford-uk">https://flightsim.to/file/706/egva-raf-fairford-uk</a>

## Email/Forum/Discord

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

PURPOSE	MEANS	NOTES
<b>Email</b>	<a href="mailto:xu-soc@ivao.aero">xu-soc@ivao.aero</a>	
<b>Forum</b>	<a href="http://xu.forum.ivao.aero">http://xu.forum.ivao.aero</a>	
<b>Discord</b>	<a href="https://xu.ivao.aero/discord">https://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'