

AIRSPACE CO-ORDINATION NOTICE

Safety and Airspace Regulation Group



ACN Reference:	Version:	Date:	Date of Original
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AR-2024-4217	1.0	19/07/2024	19/07/2024
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Civil Aviation Authority

Aerial Survey National Rail Tree Health Glasgow 2Excel

CAT Z

Subject to NOTAM: No**Date(s) of activity/Validity:**

19th July 24 – 30 September 24

Times - ALL TIMES UTC¹

0800-1700

Vertical Limits:

1500ft – 5000ft AMSL

Allocated Mode 3A (SSR):

Tactically Issued by ATC

Aircraft Details:

Type: DA62
Callsign: Broadsword xxx

NDS Approved:

No

Event Sponsor(s):

Adam Warriner
2Excel Aviation
Hangar 3
Doncaster Airport
DN9 3GE

01302230486
ops@2excel.uk

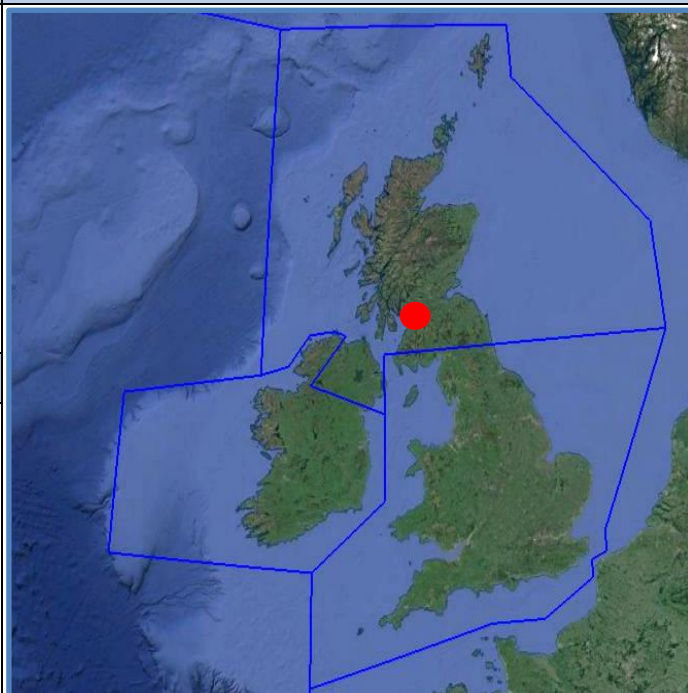
Aircraft Operator(s):

2Excel Aviation
Hangar 3
Doncaster Airport
DN9 3GE

01302230486
ops@2excel.uk

**ATS Units/
Controlling Agencies:**

Edinburgh ATC	0131 348 4828
Glasgow ATC	0141 840 8029
Cumbernauld	01236 722100
Scottish Control	01294 655300

Geographical Limits:**Airspace Reservations:**

R504

Departure/Destination Aerodrome(s)

EGCN, EGBK, EGPK

ACN Issued by:

AU3

¹ [AIS Temporal Reference System](#): Daylight saving time is UTC plus 1 hour. The expression "summer period" indicates that part of the year in which "daylight saving time" is in force. The other part of the year is named the "winter period". Times applicable during the "summer period" are given in brackets.

SECTION 1: CO-ORDINATION ARRANGEMENTS (GENERAL)

1. The pilot/operator is requested to telephone the ATC authorities on the cover prior to departure in order to notify or update the sortie details including area(s) of operation and planned levels (quoting the ACN Reference). A minimum of 24 hours' notice should be given unless specified in Section 2.
2. There may be other aircraft and/or activities outside Controlled/Regulated Airspace unknown to ATC.
3. The carriage and operation of a serviceable transponder (including Mode 'C') has been specified.
4. The pilot will be responsible for obtaining all necessary ATC clearances and for maintaining R/T contact with appropriate ATC authorities.
5. The pilot/operator will be responsible for obtaining prior clearances to enter any UK Danger Areas affected by the flight profile from the appropriate Range Control Authority unless this is specifically detailed in Section 2.
6. Other Unusual Aerial Activities (UAAs) may be notified to the CAA Safety and Airspace Regulation Group (SARG) and may take place within the airspace encompassed by this flight. The pilot/operator is to ensure that UK Daily NOTAM Nav Warnings are consulted prior to each flight.
7. All flights within Controlled Airspace are subject to the requirements of a Flight Plan in accordance with UK AIP ENR1.10. The ACN Reference should be entered into Field 18 of the Flight Plan together with any relevant 'special handling' codes.
8. Flight prioritisation and Non-Deviating Status is in accordance with the information specified on the ACN Cover. Such status may be afforded to part or all of the flight – see Section 2.
9. Availability of an ATS from Plymouth Military, Swanwick Military (78 Sqn) or Western Radar is subject to unit capacity, priorities and limitations of radar and radio coverage. Minimum pre-flight notification as per UK AIP ENR 1.6 unless otherwise specified in Section 2 of this ACN.
10. The CAA actively encourages the use of Moving map technology in the planning and flying phases of flights to reduce the risk of airspace infringements.

PUBLICATIONS AND CHANGES

11. The activity area may lie within Controlled and Uncontrolled Airspace as well as airspace reserved for military use. Aircrew are to thoroughly familiarise themselves with UK airspace structures and procedures, in particular those laid down within the UK Aeronautical Information Publication (UK AIP), ENR 1.1 and be fully conversant with UK Flight Information Services in accordance with UK CAP 493 (MATS Pt 1).
12. The CAA VFR 1:500,000 and 1:250,000 charts and the UK AIP ENR 5 depict some, but not all aviation activity sites and amendments should also be checked. Please refer to <http://www.nats-uk.ead-it.com>
13. This ACN details specific coordination essential to the activity taking place and does not remove the need for aircraft operators to comply with national flight planning and notification procedures. Pilots and ANSPs are required to ensure that all related aviation sites are aware of this planned activity and of subsequent changes not captured within this document.
14. The Sponsor or Event Organiser should co-ordinate any changes to this ACN with SARG quoting the ACN Reference at the top of the page.

Airspace Regulation (Utilisation) – AU3
Email: AROps@caa.co.uk
Tel: 01293 983880

SECTION 2: CO-ORDINATION ARRANGEMENTS (SPECIFIC)

15. This ACN details an aerial survey of National Rail Network ivo Glasgow to analyse tree health.

16. **Sortie profile:** Each leg is flown at 900m AGL which is between 3000ft – 5000ft AMSL. There is also an option to collect at 500m AGL, between 1500 and 2500ft AMSL. 900m is preferred and results in a significant reduction in collection time required allowing us to be clear of airspace sooner. The collections are conducted at around 110Kts in VMC conditions. After each leg the aircraft is required to reposition (at which point it can hold off) which will take approx. 3 min.

17. **Planned Routes:**

Name	Location	900m AGL		500m AGL	
		No. of legs	Est. Time (mins)	No. of legs	Est. Time (mins)
HBBA	Dumbarton	4	12	10	33
HGCA	Glasgow	9	32	30	105
HGCB	Alrdrie	14	48	39	136
HGDA	Wishaw	8	27	20	69
HGJA	Port Glasgow	6	21	19	67
HGJB	Glasgow ATZ	5	18	16	59
HGHA	Clydebank	4	13	16	57
HGKA	Glasgow	6	20	17	59
HGLA	Glasgow	10	35	37	128
HGMA	Glasgow	6	21	20	71
HGNA	Holytown	5	16	15	53
HGOA	Newmains	11	40	37	131
HGQA	Glasgow	5	16	20	67
HJGA	Clydebank	18	62	36	127
HJGB	Dumbarton	6	21	20	69
HKGA	Cumbernauld	16	57	32	116
HMBA	Milngavie	4	11	9	29
HWAA	Greenock	5	18	21	74

18. **Sortie limitations.** The equipment will capture circa 200m swathe width of data, the aircraft therefore will need to follow the track of the railway lines as per the charts shown in Section 3. Aircraft is a DA62 circa 110Kts.

19. **The sponsor is responsible for obtaining any required permits to fly within UK airspace; this ACN does not constitute approval to fly in UK airspace, but only outlines the coordination process/contacts to facilitate the flight.**

20. **Notification.** The sponsor is to notify the agencies listed on page one of this ACN no later than 2 hours prior to undertaking the task. In addition, the pilot is to contact the appropriate agencies at least 1 hour prior to departure to confirm final details and ascertain the availability of an Air Traffic Service (ATS).

21. **Priority.** This flight has been categorised as CAT Z, (*CAP 493 – Section 1, Ch4, Para 10c refers*) and attracts no priority. Subject to the prevailing traffic conditions on the day, there may be level restrictions, or the aircraft may be provided vectors / requested to hold to allow most efficient use of airspace.

22. **ATS Provision – Controlled Airspace (CAS).** Access to controlled airspace is subject to the prevailing traffic situation and controller workload. The pilot is responsible for obtaining a clearance to enter controlled airspace prior to penetration.

23. **ATS Provision – Outside CAS.** The survey area is within the coverage of the following units:

a. Edinburgh

Freq - 121.205

b. Glasgow

Freq - 119.100

24. Availability of an ATS from a unit is not guaranteed, is subject to controller availability, unit workload and possible reduced hours of operations. Amendments to the published hours of availability, as listed in the UK AIP ENR 1.6 – Para 4.1, AD2 or UK Military AIP, shall be notified via NOTAM.

25. **ATS Provision above FL100.** This service is available to all aircraft flying outside Controlled Airspace in the UK FIRs between FL 100 and FL 190, and within active TRAs and is subject to Unit capacity. The Units providing this service together with their boundaries are depicted within the UK AIP on the chart ENR 6-12. ENR 1.6 (4.2) lists their hours of operation, the RTF operating frequency on which this service is normally provided and a telephone number for pre-flight contact. A FPL should be filed and include the following addresses:

a. EGZYOATT Swanwick Mil (78 Sqn)

b. EGTTFZC Western Radar

26. Amendments to the published hours of availability, as listed in the UK AIP ENR 1.6 – Para 4.2, shall be notified via NOTAM.

27. Between the hours of 18:00 to 08:00 (local time) on a weekday, at any time on a weekend or during a UK public holiday, Swanwick Mil (78 Sqn) require at least two weeks prior notice in order to obtain an ATS in support of this task.

28. **Air-to-Air Refuelling Areas (AARAs).** For details of the AARAs see the UK AIP – ENR 5.2. Activation is by NOTAM, and when active, information can be obtained from Swanwick Mil.

29. **Danger Areas (DAs).** Access to any DA is subject to range requirements and access is not guaranteed. The sponsor is to engage with the DA Authority at the earliest opportunity to coordinate access, noting that access may only be possible outside notified operating hours.

30. **Non-SSR Gliding Areas.** The sponsor should exercise caution when operating in these areas, as gliders without transponders may be encountered up to FL195. For info see the UK AIP: *ENR 1.1 (Para 1.12), ENR 5.2 (NSGA) and ENR6-63.*

31. **Temporary Reserved Areas (TRA).** The sponsor is responsible for complying with the requirements for access to any TRA iaw the UK AIP – ENR 1.1 (Para 5.1.5).

SECTION 3

Area of Operation

32. Charts highlighting the area of operation are shown below. These are for illustrative purposes only and not for operational planning.

Chart 1 – Overview

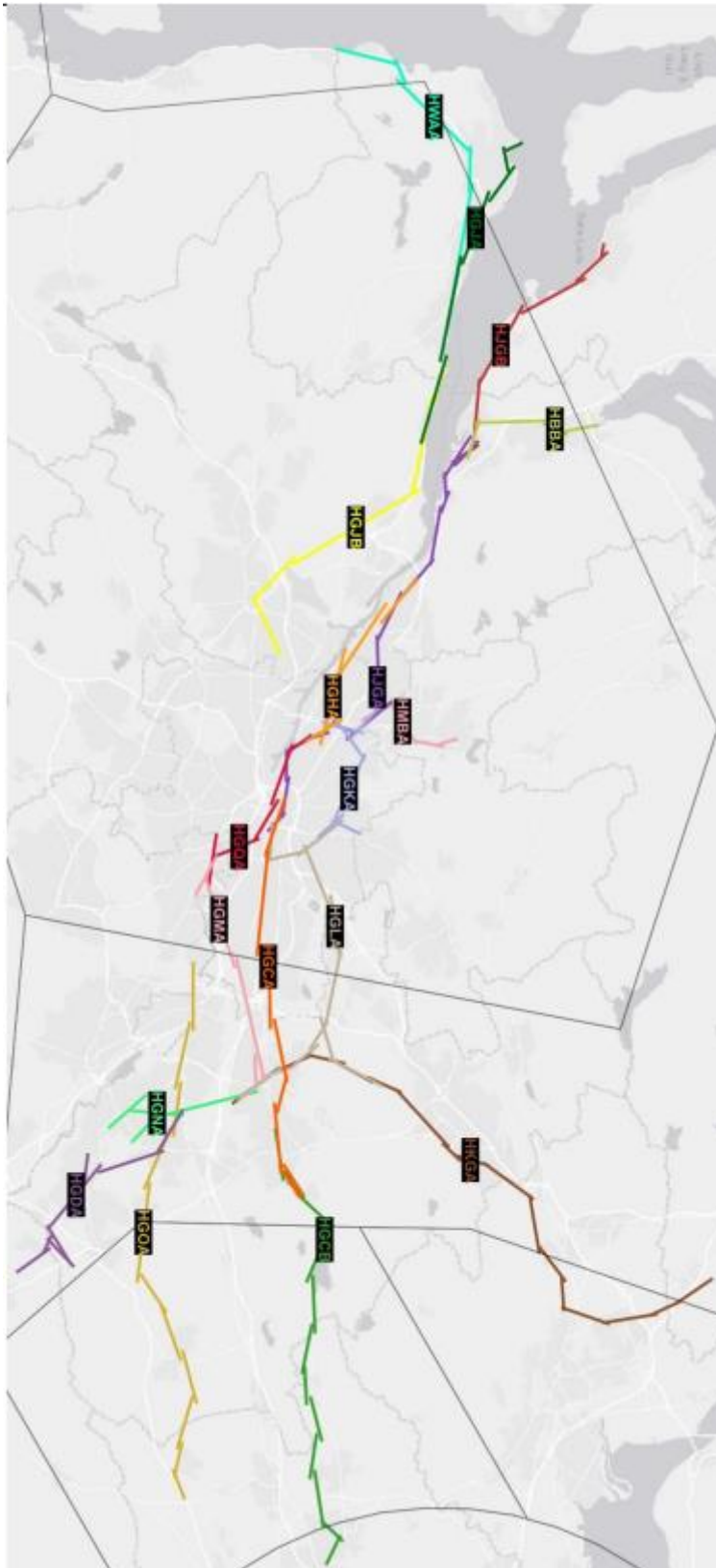


Chart 2 – HBBA

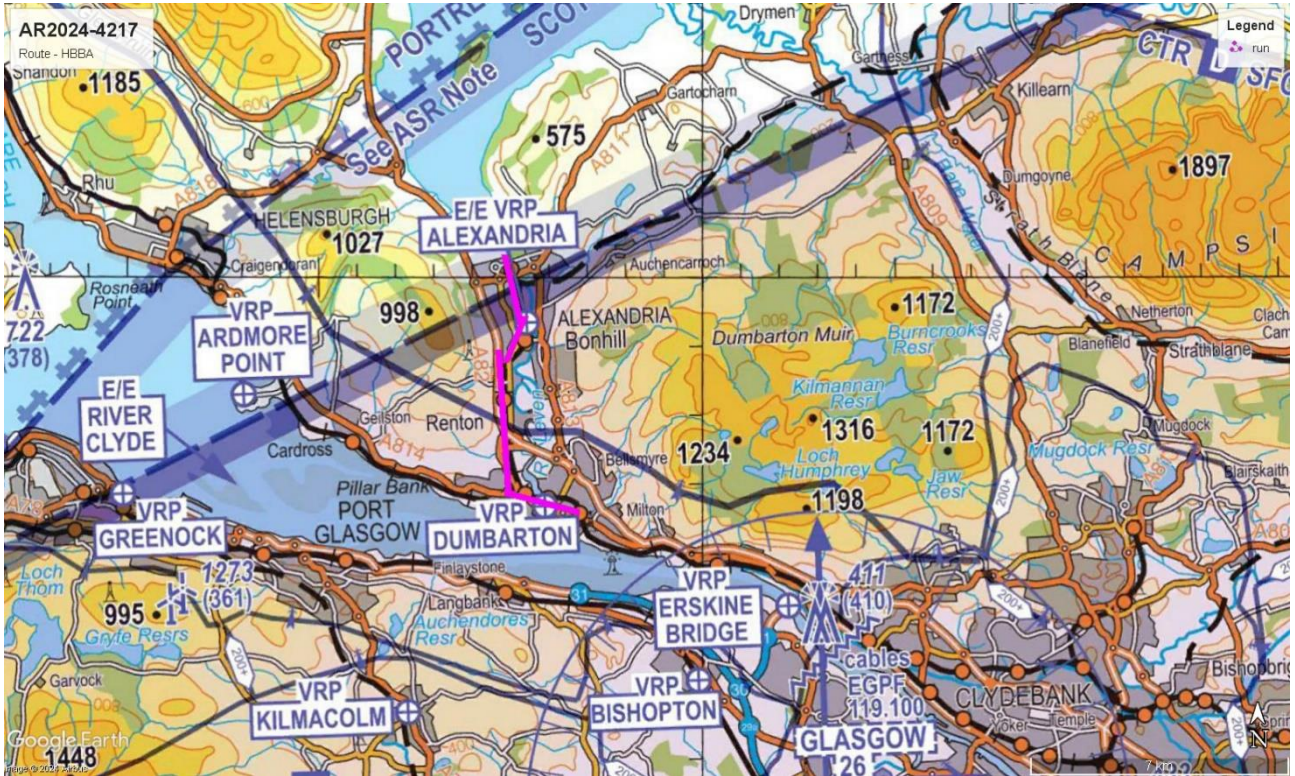


Chart 3 – HGCA

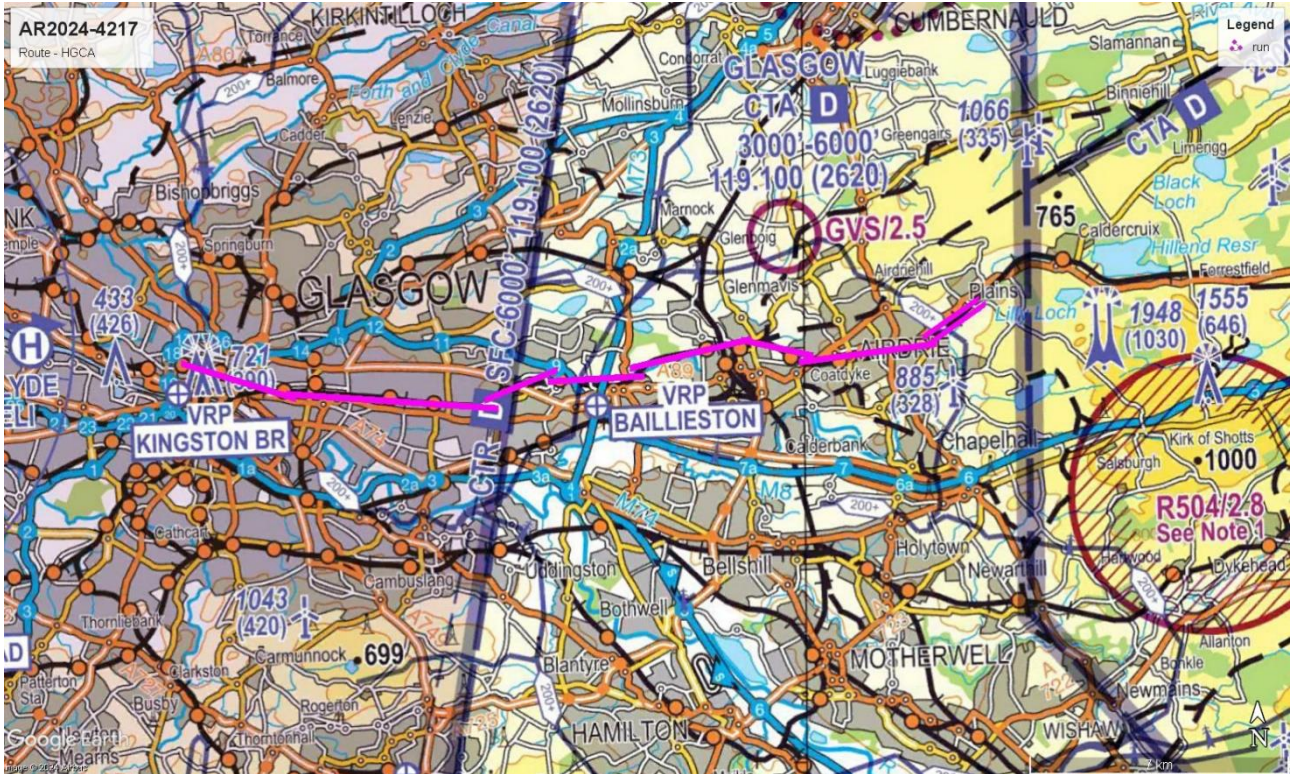


Chart 4 – HGCB



Chart 5 – HGDA

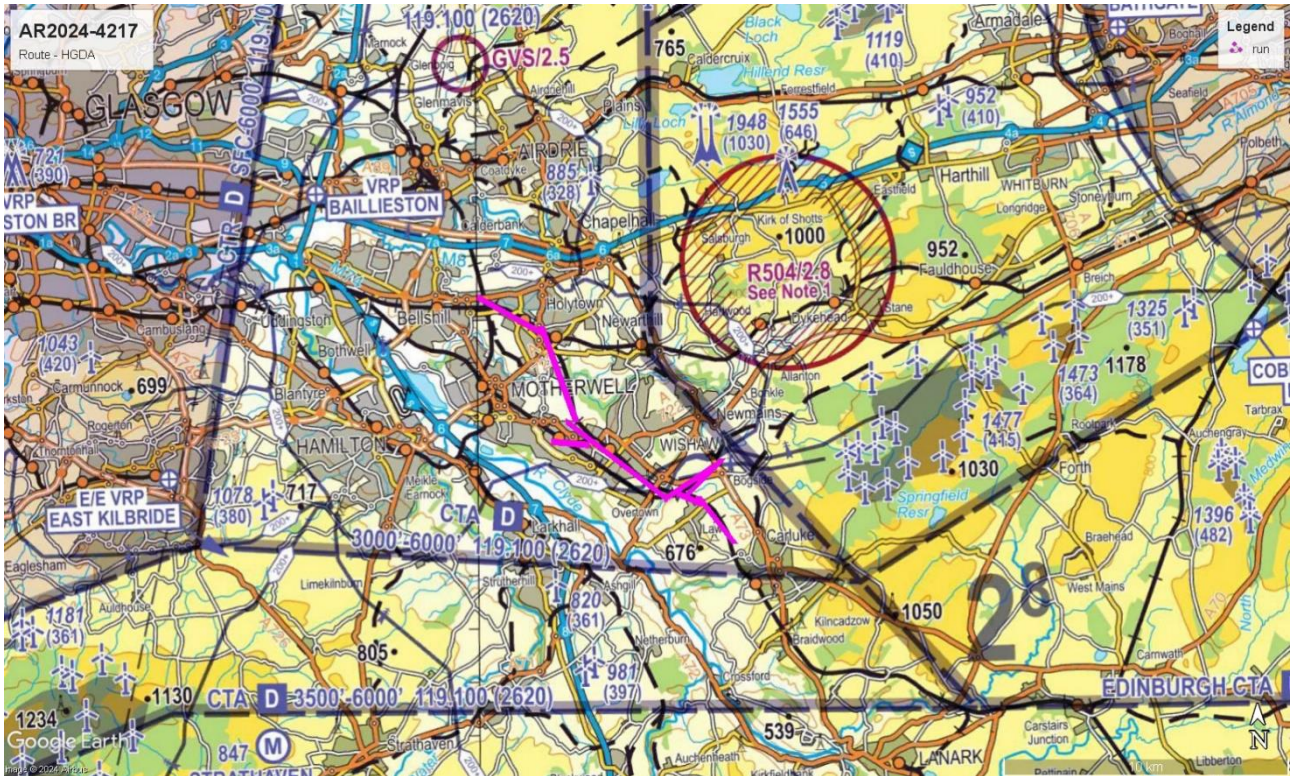


Chart 6 – HGJA



Chart 7 – HGJB

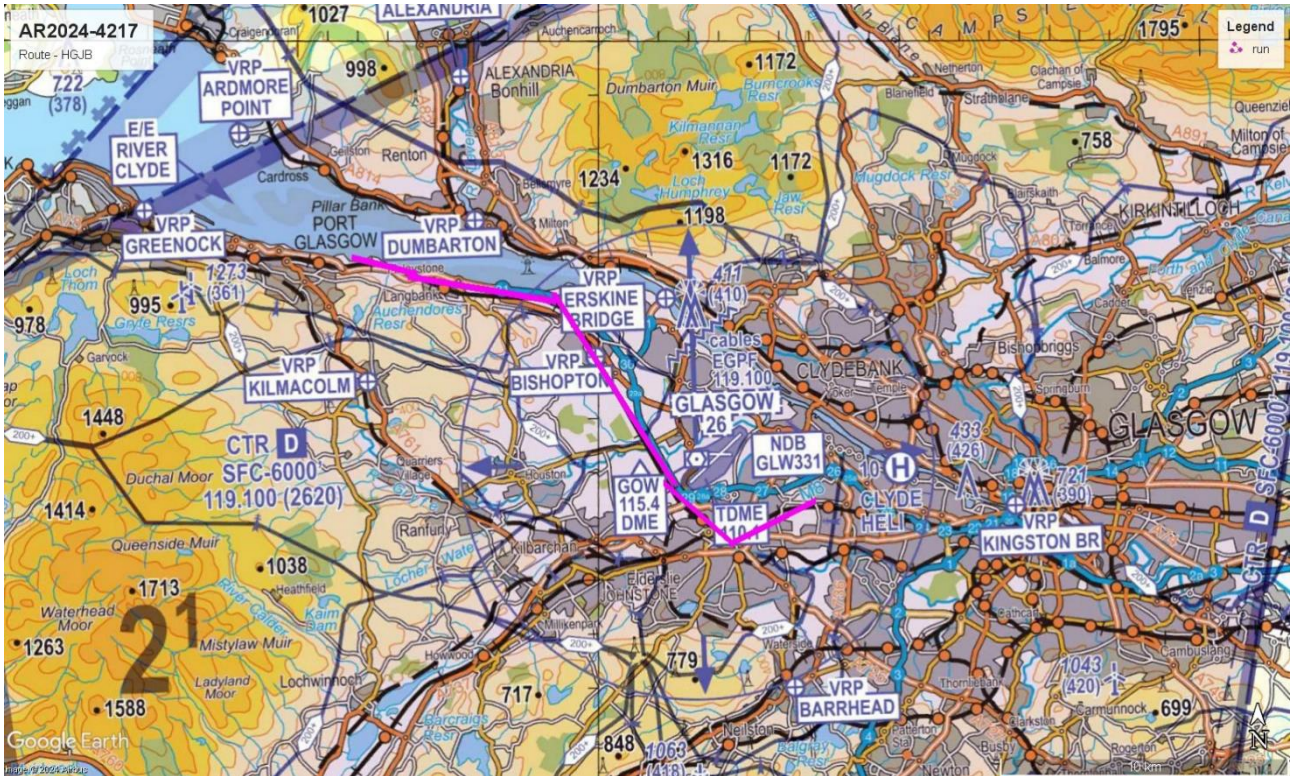


Chart 8 – HGHA



Chart 9 – HGKA



Chart 10 – HGLA

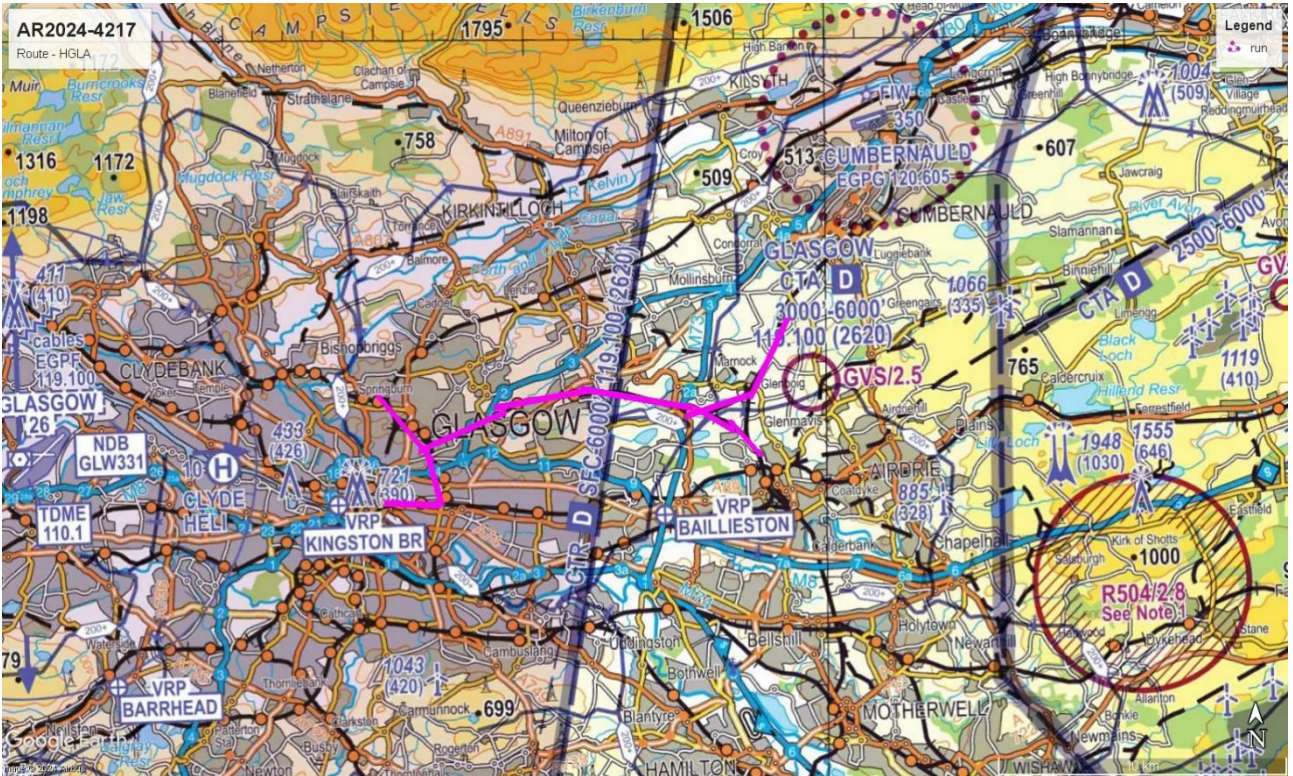


Chart 11 – HGMA



Chart 12 – HGNA



Chart 13 – HGOA



Chart 14 – HGQA

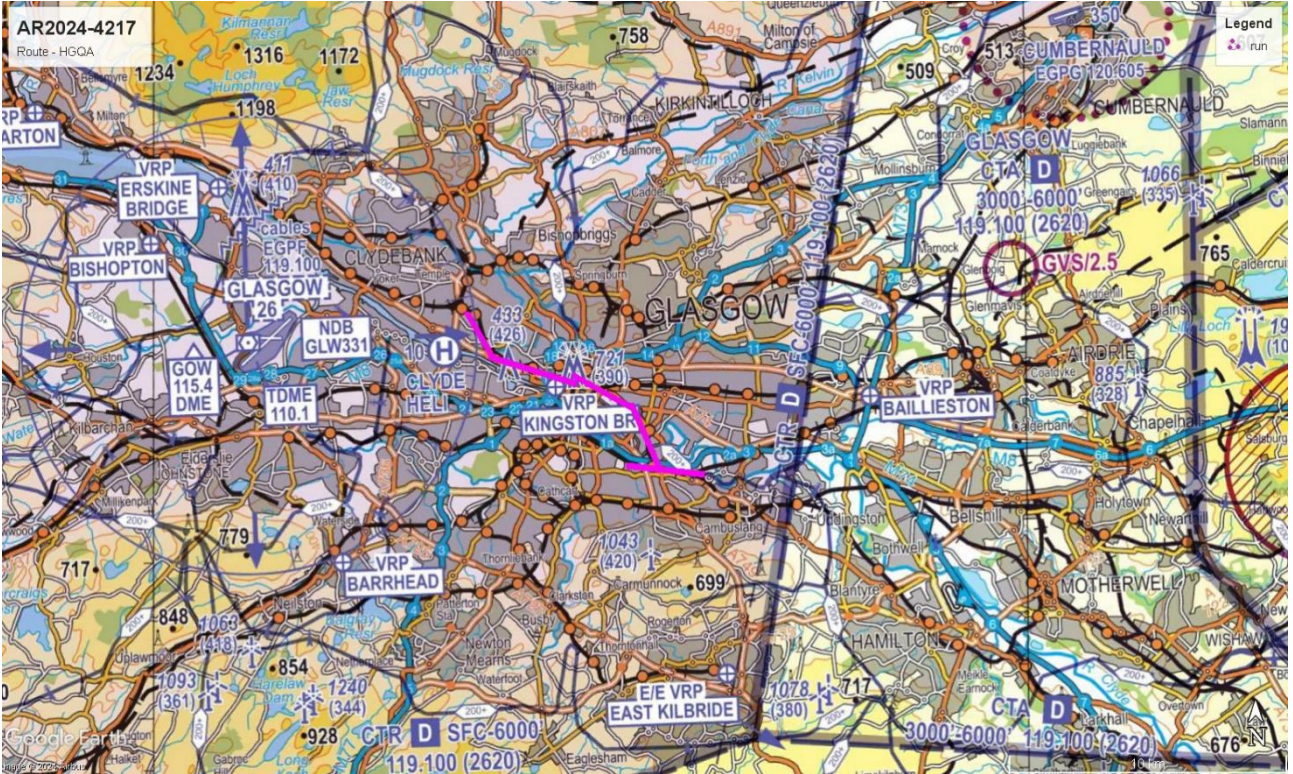


Chart 15 – HJGA



Chart 16 – HJGB



Chart 17 – HKGA

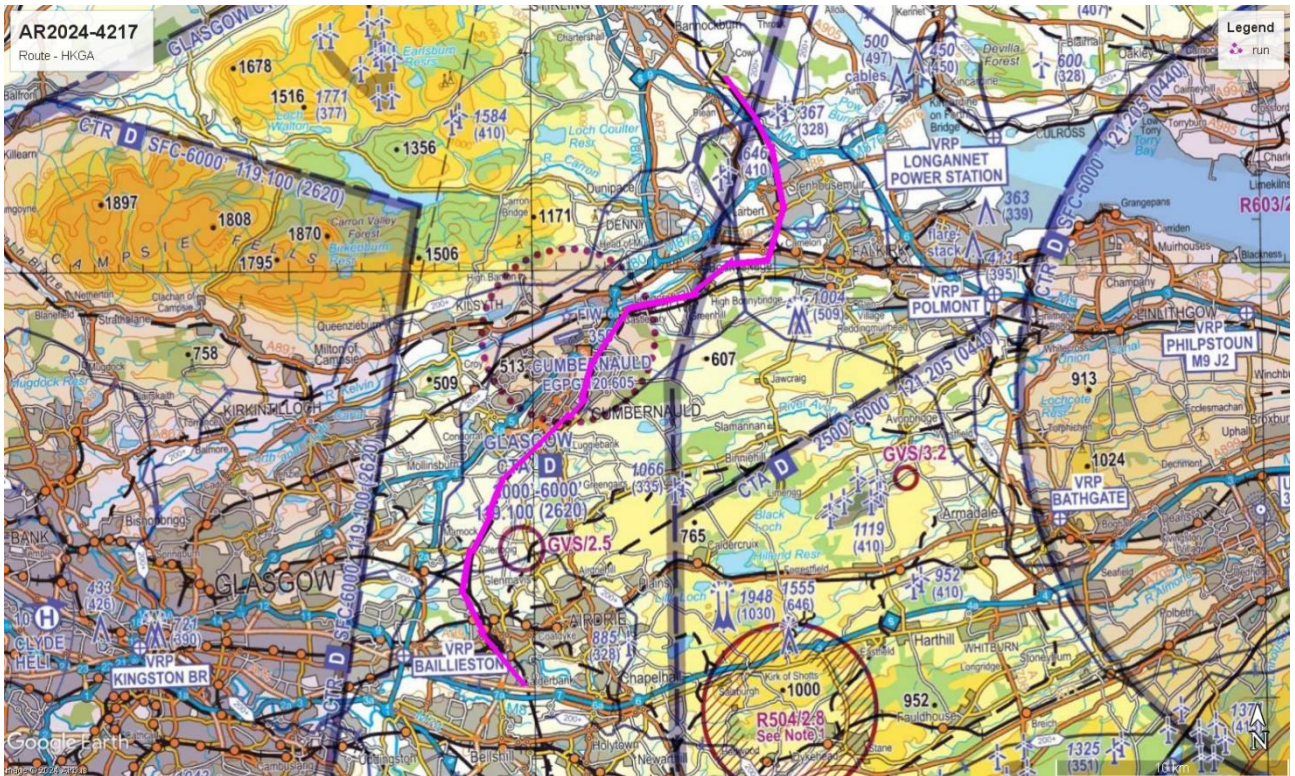


Chart 18 – HMBA



Chart 19 – HWAA

