AIRSPACE CO-ORDINATION NOTICE

Safety and Airspace Regulation Group

ACN Reference: Version: **Date of Original** Date: 2023-04-0082 2.0 14/04/2023 07/03/2023



RADAR CALIBRATION PLUTO AIR DEFENCE RADAR FLIGHTS

NDS

| Subject to NOTAM: No | |
|--------------------------------------------------------------|---------------------------------------------------|
| Date(s) of activity/Validity: | Times - ALL TIMES UTC ¹ |
| 14 th April 2023 – 30 th November 2024 | 09:00 – 18:00 <i>(08:00 – 16:00)</i> |
| Vertical Limits: | Allocated Mode 3A (SSR): |
| FL380 RVA | Tactically Issued by ATC – 0024 is not to be used |
| Aircraft Details: | NDS Approved: |
| Type: DA20 Callsign: TBC | Yes – Subject to the conditions in Section 2 |
| Event Spansor(s): | Aircraft Operator(s): |

Event Sponsor(s): Aircraft Operator(s):

RAF Boulmer

Eng and Logs Wg HQ Alnwick Northumberland

NE66 3JF

01665 607244 BOU-BM-Ops-Availability@mod.gov.uk Draken Europe

Bournemouth Airport

Christchurch Dorset

BH23 6NE

01202 409013

ATS Units/

Controlling Agencies:

Geographical Limits:

| Swanwick Mil (78 Sqn) - East | 01489 612408 |
|-------------------------------|--------------|
| Swanwick Mil (78 Sqn) - North | 01489 612943 |
| Swanwick Mil (78 Sqn) – West | 01489 612417 |
| | |

Info:, CRC Boulmer, Hebrides, Prestwick ACC, Swanwick ACC

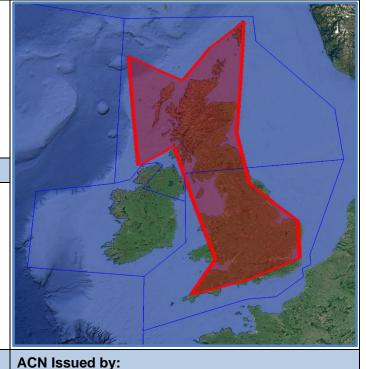
Airspace Reservations (Assessed at FL380 Only)

| EG D064B/C | South West MDA | 01489 612495 |
|------------|----------------|--------------|
| EG D138A/D | Shoeburyness | 01702 383254 |
| EG D323 | Southern MDA | 01489 612495 |
| | - F, G, H, K | |
| EG D509 | Campbeltown | 01923 956371 |
| EG D701 | Hebrides | 01870 604449 |
| | -ABDEFIJK | M&Y |

EG D712 (All) Northern MDA 01489 612495 Cape Wrath EG D801 01971 511242 EG D809 (All) Moray Firth 01489 612495

Departure/Destination Aerodrome(s)

EGHH, EGNV, EGQS AS3



AlS 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) - AS3

Email: <u>AROps@caa.co.uk</u> Tel: 01293 983880

SECTION 2: CO-ORDINATION ARRANGEMENTS (SPECIFIC)

- 15. This ACN details the flight profiles required to conduct routine calibrations of Air Defence Radars (ADRs) of the RAF Air Surveillance and Control System (ASACS)
- 16. This ACN is the fourth iteration and replaces ACN 2021-07-0365.
- 17. The calibration is is split into two elements:

a. North Group Benbecula, Buchan & Saxa Vord, Brizlee Wood

b. South Group Brizlee Wood, Portreath & Neatishead

- 18. Each day will start at either Bournemouth or Teesside and comprise of two sorties (North and South). The routes are indicative, and the calibrator will break off of a route before reaching the radar head being assessed, then re-position onto the next radial. In order to assist ATC with planning, the pilot is requested to inform ATC at the earliest opportunity when considering a change in heading or level, in all instances the aircraft must not change heading or level without prior approval from ATC, as there may be other traffic in the vicinity that requires coordinating against.
- 19. **Dates.** These flights are routinely scheduled for the 2nd Thursday of each month, however, may be conducted outside this schedule with prior approval form the controlling agencies.
- 20. **Level.** The requested level is FL380 (RVA). The aircraft may operate at a lower level, subject to ATC requirements, but the level must be maintained for the duration.
- 21. **Notification.** The aircraft operations controller is requested to notify Swanwick Mil (78 Sqn), once the date and route profile are known and at least 24 hours in advance. Prior notification to Swanwick Mil (78 Sqn) is vital for their planning, as this flight attracts Priority 6 (*BM Force Orders: 303 Area Radar Priorities refers*), meaning that service provision is not guaranteed, is subject to Unit manning and higher priority tasks.
- 22. 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) requires at least two weeks prior notice in order to obtain an ATS in support of this task.
- 23. In addition, the pilot is to contact the appropriate agencies at 1.5 hours prior to the expected departure time to confirm final details and availability of an ATS.
 - a. Flight Plan should be filed and include the following address: EGZYOATT.
- 24. **Coordination with London ACC & Prestwick ACC.** The appropriate military supervisor is to discuss the flight with the relevant Civilian Operations Supervisor (OS) prior to approving departure. The OS is then responsible for notifying the impacted Group Supervisor/Sector Teams.
- 25. **Priority.** This flight has been afforded Non-Deviating Status (NDS) whilst established on a measured run only and within Controlled Airspace (CAS), (*UK AIP ENR 1.1 (4.2) & CAP 493 Section 1, Ch4, Para 17 refers*). In order to reduce the impact to other airspace users, the controlling authority may request that the pilot hold, or accept radar vectors in order to make best use of the airspace, or to reduce overall delays.
- 26. Air Traffic Service (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.
- 27. **Danger Areas (DA's).** Access to any danger area is subject to the requirements of the operating authority and is not guaranteed. The sponsor is responsible for coordinating access those DA's that require penetrating. The flight is permitted to operate non-segregated.

28. Only those DA's on the notified route at FL380 have been identified on page one. Should the aircraft require to operate at a different level, the sponsor should ensure that all appropriate DA's have been contacted and access agreed in advance. Whilst this task is of high importance DAs may be booked but shall not be supressed without prior approval from the Danger Area Airspace Manage (DAAM) and the CAA (Manager AR).

SECTION 3

Routes & Charts.

- 29. Charts highlighting the various areas of operation are shown below. This is for illustrative purposes only and not for operational planning.
- 30. The calibration aircraft shall follow the following routing:

a. Bournemouth (PLUTO North)

| WAYPOINT | POSITION |
|--------------------|----------------------|
| EGHH – Bournemouth | |
| BCN (VOR) | 51 43 32N 003 15 47W |
| B1 | 56 04 00N 006 12 00W |
| Benbecula | 57 37 00N 007 27 00W |
| B2 | 55 16 00N 008 36 00W |
| В3 | 56 40 00N 004 30 00W |
| Buchan | 57 27 00N 001 49 00W |
| B4 | 59 19 00N 00218 00W |
| Saxa Vord | 60 50 00N 000 50 00W |
| B5 | 59 50 00N 003 30 00W |
| Brizlee Wood | 55 25 00N 001 46 00W |
| EGNV – Teesside | |



Total = 3h

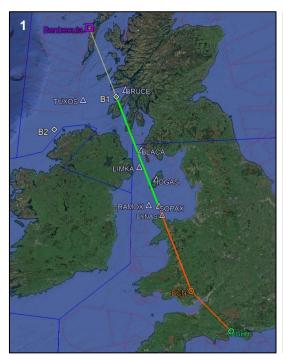
The radar calibration requires runs from 260nm to 100nm. The route may be tactically changed to gain distance from the next radar head once 100nm is achieved from the current target.

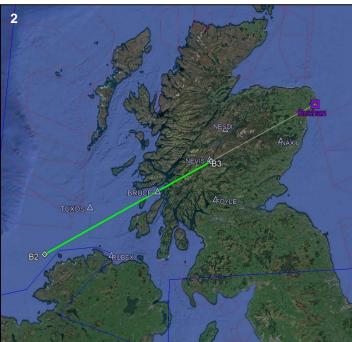
Benbecula, Buchan and Saxa Vord are aiming waypoints to enable crews to drive directly at the target radar if their routing is altered by ATC. In all instances the aircraft shall break off approx. 100nm prior to the radar being assessed.

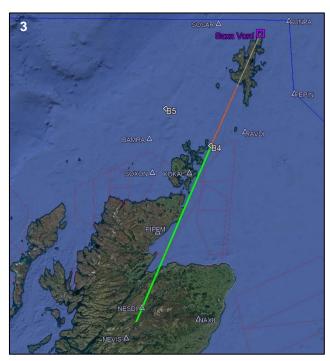
Expected FPL Route:

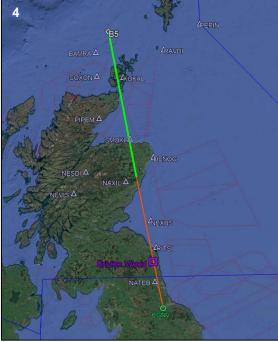
EGHH - BCN - N5604W00612 - N5516W00836 - N5640W00430 - N5919W00218 - N5950W00330 - EGNV

BOURNEMOUTH - PLUTO NORTH CHARTS



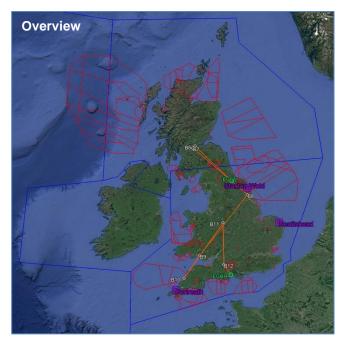






b. Bournemouth (PLUTO South)

| WAYPOINT | POSITION |
|--------------------|-----------------------------------|
| EGNV – Teesside | |
| В6 | 55 57 00N 003 47 00W |
| В7 | 55 53 00N 003 56 00W |
| B8 | 53 55 00N 000 27 00W |
| Neatishead | 52 42 00N 001 00 28E |
| В9 | 51 38 00N 003 44 00W |
| Portreath | 50 16 00N 005 16 00W |
| B10 | 50 44 00N 004 44 00W |
| B11 | 52 53 00N 002 10 00W |
| Staxton Wold | 54 11 00N 000 26 00W |
| B12 | 51 13 00N 002 15 00W ² |
| EGHH – Bournemouth | |



Total = 2h

The initial Climb to FL380 will take approx. 180nm, so a dogleg of approximately 60nm will be required enroute to the first waypoint to achieve altitude.

The radar calibration requires runs from 260nm to 100nm. The route may be tactically changed to gain distance from the next radar head once 100nm is achieved from the current target.

Neatishead and Portreath are aiming waypoints to enable crews to drive directly at the target radar if their routing is altered by ATC. In all instances the aircraft shall break off approx. 100nm prior to the radar being assessed.

Expected FPL Route:

EGNV - N5557W00347 - N5553W00356 - N535500W0002700 - N513800W0034400 - N504400W0044400 - N525300W0021000 - N511300W0021500 - EGHH

² Waypoint to ensure westerly clearance of the Salisbury Plain Training Aera (SPTA) Complex.

BOURNEMOUTH - PLUTO SOUTH CHARTS







c. Teesside (Pluto North)

| WAYPOINT | POSITION |
|--------------------|----------------------|
| EGNV - Teesside | |
| T1 | 56 30 00N 002 00 00W |
| Saxa Vord | 60 50 00N 000 50 00W |
| T2 | 58 40 00N 005 15 00W |
| Benbecula | 57 37 00N 007 27 00W |
| Т3 | 59 30 00N 009 30 00W |
| T4 | 58 15 00N 004 30 00W |
| Buchan | 57 27 00N 001 49 00W |
| EGQS - Lossiemouth | |



Total = 2hr 40mins

The radar calibration requires runs from 260nm to

100nm. The route may be tactically changed to gain distance from the next radar head once 100nm is achieved from the current target.

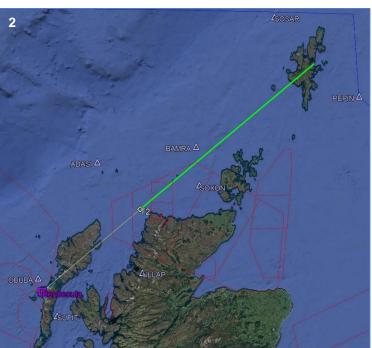
Benbecula and Buchan are aiming waypoints to enable crews to drive directly at the target radar if their routing is altered by ATC. In all instances the aircraft shall break off approx. 100nm prior to the radar being assessed except for Saxa Vord; where the aircraft will continue closer to the radar to create the leg length for Benbecula, however the aircraft will probably turn just prior to the site.

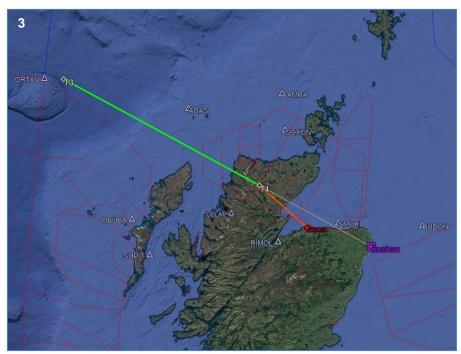
Expected FPL Route:

EGNV - N5630W00200 - N6050W00050 - N5840W00515 - N5930W00930 - N5815W00430 - EGQS

TEESSIDE - PLUTO NORTH CHARTS

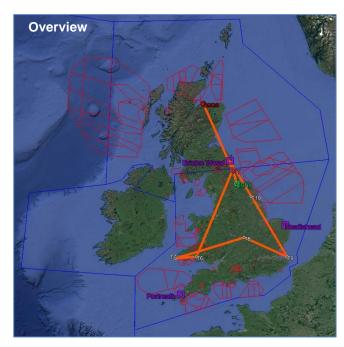






d. Teesside (PLUTO South)

| WAYPOINT | POSITION |
|--------------------|----------------------|
| EGQS – Lossiemouth | |
| T5 (NT NDB) | 55 03 00N 001 38 00W |
| T6 | 51 45 00N 004 15 00W |
| Portreath | 50 16 00N 005 16 00W |
| T7 | 51 42 00N 005 34 00W |
| T8 | 52 23 00N 001 13 00W |
| Neatishead | 52 42 00N 001 28 00E |
| Т9 | 51 26 00N 001 22 00E |
| T10 | 53 58 00N 000 33 00W |
| Brizlee Wood | 55 25 00N 001 46 00W |
| EGNV – Teesside | |



Total = 2hrs 40min

Climb to FL380 will take 180nm.

The radar calibration requires runs from 260nm to 100nm. The route may be tactically changed to gain distance from the next radar head once 100nm is achieved from the current target.

Brizlee Wood, Portreath and Neatishead are aiming waypoints to enable crews to drive directly at the target radar if their routing is altered by ATC. In all instances the aircraft shall break off approx. 100nm prior to the radar being assessed.

Expected FPL Route:

EGQS - N5503W00138 - N5145W00415 - N5142W00534 - N522300W0011300 - N5126E00122 - N5358W00033 - EGNV

TEESSIDE - PLUTO SOUTH CHARTS

