



# 2022 Pre Flying DisplaySeason Symposium



**Mike Macdonald**  
**GA&RPAS Unit - Head of Policy**

# Scope

- **DS21**
- **FDD Courses**
- **Events' Teams Reports**
- **BADA Update**
- **Bournemouth Incident**
- **FDFG Outbrief**



# Aims

- **Regulatory feedback**
- **Safety awareness**
- **Human factors training**
- **Identification of lessons learnt and to disseminate best practice to DAEs, Display Pilots, Event Organisers and FDDs.**
- **Provide the display community with an opportunity to share feedback with regulators, in order to improve the Flying Display environment as a whole.**

**Wednesday 23 March 2022**

<b>Start</b>	<b>End</b>	<b>Session</b>	<b>Speaker/Lead</b>
1200	1300	Registration	
1300	1315	Welcome and Introductions	Michael Macdonald
1315	1345	Display Season 2020-21 Trends Analysis	Paul Sall & Wg Cdr Ben Smy
1345	1415	CAP 403, CAP 1724 and RA2335 changes Walk Through	Paul Szulha
1415	1515	Cognitive Bias	Ian Holder, Baines Simmons
1515	1545	<b>Coffee/Tea (Provided)</b>	
1545	1645	The DAE role in Human Performance	Ian Holder, Baines Simmons
1645	1745	Risk Briefing	David Cooper
1745	1800	Washup/Questions & Brief for Day Two	
1800	2000	<b>Fork Supper (Provided)</b>	

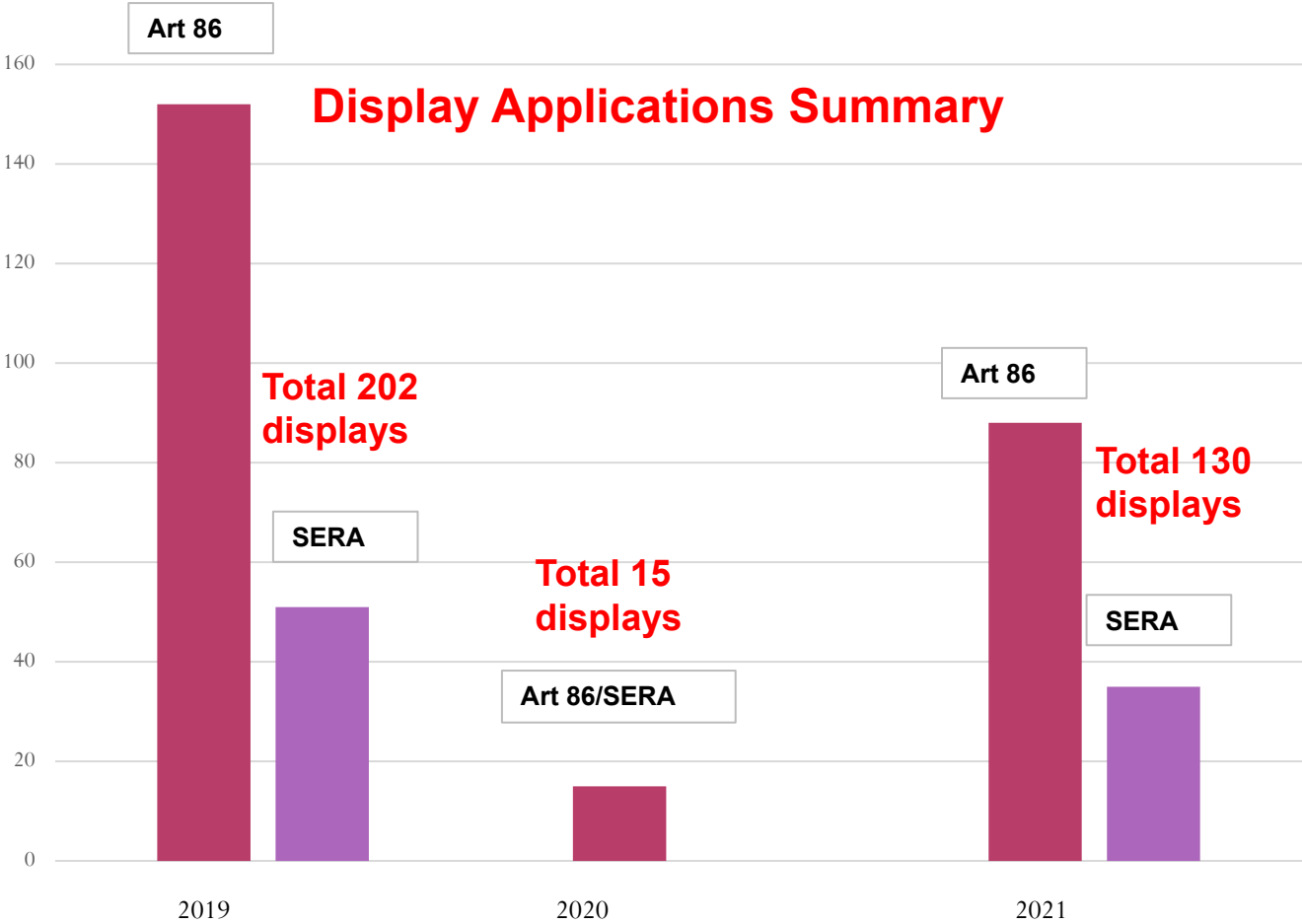
**Thursday 24 March 2022**

<b>Start</b>	<b>End</b>	<b>Session</b>	<b>Speaker/Lead</b>
0900	0930	CHIRP	Steve Forward
0930	0945	Centrix Reporting	Alistair Williams
0945	1030	FDD/FCC Display Monitoring	Les Garside Beattie
1030	1100	<b>Coffee/Tea (Provided)</b>	
1100 - 1230	<b>Syndicate 1 Room tbc</b>		<b>Syndicate 3 Room tbc</b>
	FDD/DAE/Display Pilot - P Sall		Event Organisers - George Bacon
	Dunsfold Incident Review – R Goodwin AFDD/FDD update – P Sall		Environmental Issues
1230	1330	<b>Lunch (Provided)</b>	
1330 - 1430	<b>Syndicate 1 Room tbc</b>		<b>Syndicate 2 Room tbc</b>
	FDD Lossiemouth Air Show LIs - Sqn Ldr Greenhowe		DAE/Display Pilots - Paul Szluha
		<b>Syndicate 3 Room tbc</b>	
		Event Organisers - George Bacon	
1430	1445	Q&A and Group Feedback	
1445	1500	BADA Update	
1500		Closing Remarks	

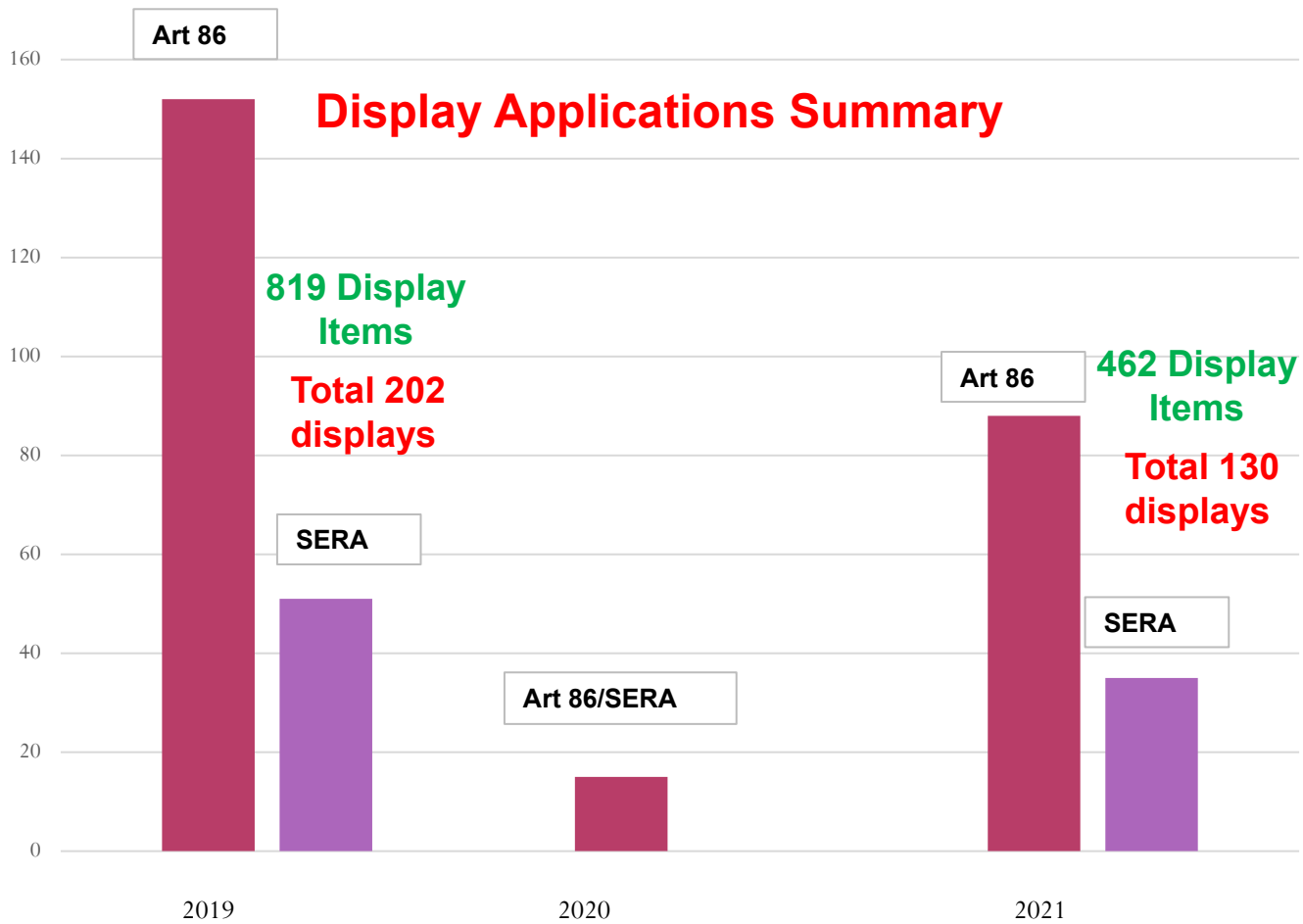
# DS 21

- **Facts and Figures**
- **Post Event Feedback**
- **Assurance Visit Trends**
- **MAA report**
- **DS 21 Safety Survey**
- **Precis of Out of Season Work strands**

# Display Season 21







# Display Season 21

- Safety Notice (SN)-2020/008 and 2021/010  
– Display Flying Currency
- DS 21 Flying Display applications are at c60% of DS 19
- Number of items flown in DS 21 is at c56% of DS 19
- Smaller displays – numbers similar to DS 19
- Larger Scale displays – significant decrease with some sites adopting crowd caps
- Sea Front displays – only 6 out of a usual 16 took place



# Display Season 21 Facts & Figures



8 FDDs Accredited  
12 Revalidated  
28 AFDD Accredited  
5 New DAEs  
1 DAE Retired

**9**  
Occurrence Reports (MORs)

## Most reported safety concerns

- 4 Mechanical malfunctions
- 0 Public infringements
- 5 Airspace infringements
- 1 Drone activity/ infringements



**4** High severity occurrences

**0** STOP calls

10 'too close' calls  
16 too low' calls  
3 'terminate' calls

**51%** Late applications  
**10%** Applications <7 days  
**98%** Applications processed

**25%** Permissions issued less than 14 days to the event

11 Assurance Visits conducted by the UK CAA (8% of all displays)

**98%** of FDD reports considered of good quality

## FDD/AFDD Post-Display Reports

- **Post Event Reporting Process is now well established**
- **Common issues arising:**
  - *Poor engagement from SAG/Emergency Services at some events*
- **SRG 1327:**
  - *Incomplete, inaccurate or late submission from DAs*
  - *Hazardous material info incomplete*
- **NOTAM and RA(T) incursions:**
  - *Continue to be an issue and is being raised through CAA Infringement Coordination Group*
- **Trends developing:**
  - *Early in the season a reoccurring incident was noted through the reporting and addressed*
  - *No ongoing trends noted*

# SRG 1305 Feedback

## FDD/AFDD Post-Display Reports

### 2021 - Lessons Learnt

- SRG 1305 Post Event Report Feedback form needs to be more user friendly and allow for improved data and automatic capture
  - Online Dynamic PDF is being scoped
- Event Organiser changing layout at single item events and not informing AFDD
  - Discuss further at Pre Display Symposium EO Breakout Sessions
- Greater flexibility required in Permission content to reduce Last Minute Changes to permission

# Display Assurance Visit

- **CAA visited 11 events**
  - *Aim:*
  - *Planning and delivery in line with CAPs*
  - *Share Best Practice from events*
  
- **‘Good Practice’ identified**
  - FDD/FCC pre-briefing, display minima, next item, division of responsibilities – who is monitoring what?
  - Display Minima Briefing - FCC know what to expect
    - Display Minima Briefing Sheet
  - Production of clear Terms of Reference for the FCC
  - Positive FDD / Display Pilot interactions pre-display
  - Early designation of the Display Area (minimal avoids)

# Display Assurance Visit

- **Points Identified**
  - **FDD Briefing** - varied in quality and depth
  - **Pilots Notes** - varied in accuracy, quality and depth
  - **RAs/Maps** – CAP 403 guidance
  - Not all FDDs use a Display Minima Briefing Sheet

Military Aviation Authority



# Post Season Symposium

9 Nov 21

Wing Commander Ben Smy

[DSA-MAA-Display@mod.gov.uk](mailto:DSA-MAA-Display@mod.gov.uk)



# Key Takeaways from 2021

- New Regulation issued Feb 2021 (MAA RA 2335) to align to CAA CAP 403
- Punctuated season with a paucity of events
- New techniques, practices, methodologies and approaches
  - Time to develop vs time for skill fade.
- Some updating of forms required! Always check “MAA RA 2335” via gov.uk
- Form 1 and 4 submission deadlines (and *absence* of forms).

# MAA regulated events

	DS 17	DS 18	DS 19	DS 20	DS21
Military Regulated Flying Displays	46	43	34	22	30

# Final MAA thoughts.....

# Display Season 21 – Safety Survey



- **DS21 Safety Survey**

- 17 Questions
- Survey in 2018, 2019 and 2021
- Survey 2021 - 84 respondents an increase of 28 from 2019
- No significant trends noted

# Display Season 21 – Safety Survey



## Some Comments from the Survey

**FDDs and EOs should not schedule inappropriate or unrehearsed formations/scenarios in a display, just to circumnavigate the CAA charging structure. Furthermore, DA holders should not agree to them if uncomfortable with the aircraft or pilots they are flying with, or their ability to fly safely during the slot.**

**Making sure there is always a "margin", be it in minima, timing, performance etc.  
Open and honest reporting, a Just Culture.**

**Communicate, share information without fear or favour - there is no monopoly on wisdom and no safety in secrecy..**

**Familiarity with the regs, even basic ones, and also attitude towards completion of paperwork and other requirements**

**Make sure the FDD is fully involved in the planning and preparation of an air display and isn't just a figurehead and a name on the permission**

**To know their own display routine, be aware of what to do when things go wrong - and practice, practice, practice**

**Get out of the mentality of 'this is how we did it last year'**

**Display a greater degree of moral courage to do the 'right thing' when witnessing something that needs to be addressed.**

# Display Season 21 – Safety Survey

- What do you consider to be the most significant actions EOs / AFDDs / FDDs / DAs / SAGs can take to improve air display safety.....
- 4 Themes: **Honest reporting, problems with ‘old school’ guys, better FDD briefings, simplify the regulations.**

2019	2021
<p>Open and honest reporting in a Just Culture so that people can learn from errors and mistakes without fear of retribution. I think that the civilian world is still well behind the military in this respect.</p>	<p>Foster an open and honest culture where people speak openly about their mistakes. I find there is an issue with the ‘older generation’ (in general) that they hold their mistakes close and are unwilling to share based on the culture when they were learning to fly be that in the military or civilian worlds.</p>
<p>Get rid of the regime of “old school” FDD’s who pitch up on the day and know nothing about the site or event. V poor brief by FDD.</p>	<p>Get rid of the old boys network. I have displayed at events with excellent organisation, feedback and encouragement in a proactive manner, dealing with incidents in a pragmatic safe and well thought out manner. I have also displayed at a major event where the exact opposite is true.</p>
<p>Consistency of approach across safety related matters from presentation of documents (by DA holders) to common Pilot Briefing documents (by FDD’s) for example.</p>	<p>Reporting and confronting deviance from accepted or regular practice. Comprehensive, clear briefing</p>
<p>Simplify the rules and reduce the size of the rule books. This way you have more chance of the display pilots properly reading and understanding them.</p>	<p>Cut out needless regulation, simplify the CAPs and focus on the basics of safe display flying.</p>

# Display Season 21 – Safety Survey

- What is the biggest air display-related safety concern you have.....

2019	2021
<p>The rise in the use of <b>Drones/UAVs</b> in the vicinity of display venues and the risk of MAC with an aero-system.</p>	<p>The biggest concern going into this year was the currency of display pilots and organisers. <b>However, an outstanding attitude towards safety has been displayed this year mitigating this concern.</b></p>
<p><b>Some of the best pilots are the older ones but those responsible for supervision need to carefully monitor for any signs of slowing up or other age-related issues.</b> Separately, any signs of over-confidence, arrogance or non-acceptance of criticism are warning signs.</p>	<p><b>My biggest concern are some people pushing the limits of the regulations, exploiting loopholes or seemingly ignoring the rules.</b> The latter is in relation to pyro displays, my worry is through their exploits it will detract and cause further regulation and restriction for others who comply and prevent any further relaxation of the current rule set.</p>
<p><b>Pilots flying too many shows in a short period of time.</b> Therefore, not having enough time to focus on the specific operating procedures for one specific site.</p>	<p><b>Too many no-fly. areas in what should be the display area</b></p>
<p><b>The lack of a just culture from the CAA.</b> The CAA have demonstrated their resolve in the past to punish people for making mistakes, therefore nobody will talk to them any more and we don't all get the opportunity to learn from events that could prevent accidents unless you seek out the individuals involved if they and you are willing / comfortable.</p>	<p><b>Secret shoppers at displays causing distraction by hiding in hedges on display lines</b></p>

# Display Season 21 – Safety Survey

- The Air Display organisations and people I worked with or observed during this year’s display season.....

	2018	2019	2021
	Agree/Strongly Agree	Agree/Strongly Agree	Agree/Strongly Agree
Have a strong safety culture	93.44	94.94	91.67
Rarely deviate from operating procedures, flying regulations or general flight discipline	85.25	92.85	89.29
Report all adverse incidents, near misses and issues encountered during a flying display	70.69	78.18	77.11
Operate a just culture where the reporting of safety violations, unsafe behavior or human error is encouraged	77.59	78.58	78.57



# CAA - Precis of Out of Season Work



**Paul Szluha**

# CAP 403 Edition 19

- Minimum change with clarifications and minor editorial amendments but with consideration of:
  - *Low approach and go-around / touch and go*
  - *DA Minima off airfield*
  - *Radio Failure*
- **Initial Consultation with FDFG and then Public Consultation**

# CAP 403 Edition 19

- FDFG Consultation of any significant changes is ongoing
- Public consultation: **14 December 2021 – 14 January 2022**
- FDFG Review of Final of CAP 403 Ed 19
- Target publication date: **25 February 2022**

# CAP 1724 Edition 4

Minimum change with clarifications and minor editorial amendment but with consideration of:

- Aerobatic and DA category clarification
- Review Initial Issue DA requirements
- Output from DAE Seminar as required

**In Consultation with DAEs**

# CAP 1724 Edition 4

- Public consultation: **19 January 2022 – 16 February 2022**
- FDFG DAE Review – early March
- Target publication date: **16 March 2022**

# LTP Display Practice review

- Clarification of DAE briefing requirement
- DAE Briefing sheet
- Clarification of what is required to be logged when LTP used.

**To be discussed with DAEs at DAE Seminar in December**

# PYRO and Night Display Study

C10% of DS 21 Flying Displays were Twilight Pyro Displays:

- Increasing demand, combined with requests to display after Twilight
- **GA & RPAS Unit seeks to commission a Formal Study in the use of airborne Pyrotechnics and its associated Flying Display parameters before and after twilight as defined in CAP 403.**

# PYRO and Night Display Study

- **DRAFT Aim** - The study should **engage with interested parties, current practitioners of night and pyrotechnic display activity and other DAEs**, to provide summary recommendation/s on the suitability or otherwise of Flying Display activity with pyrotechnic activity before and after twilight, and any associated limitations or restrictions
- **Report by 1 April 2022**
- **CAP 403 Ed 19 will be published as planned but reissued with an amended Chapter 16 once the Study is completed**



# FDD Courses 2021/22

- **Currently Planning for:**
- **14 Dec 21 – FDD Revalidation Course** – Defence Academy Shrivenham
- **15 Dec 21 – AFDD Course** – Defence Academy Shrivenham
  - *Will now be an online correspondence course*
- **15-16 Feb 22 – FDD Initial Course** – Defence Academy Shrivenham
- Further Reval course being scoped for 1<sup>st</sup> qtr 2022

# FDD Courses 2022

## Clear Requirement to review FDD Course construct for 2022 onwards

- **2017/18** - 127 FDDs
- **2021** - 46 current FDDs and 28 AFDDs
- **2022** - Course needs to grow FDD Cadre and Revalidation in a more flexible manner, rather than one FDD Revalidation course each year

# FDD Courses 2022

- FDD Course Consultation Paper will be distributed by the end of 2021
- Possibilities include:
  - Modular FDD Course to accommodate initial FDD and initial AFDD Accreditation
  - Followed by ‘in the field’ revalidation
- **These are initial thoughts – please contribute to the consultation paper or drop me an email**

**Break**



**SO2 Air Events - RAF Ceremonial & Air Events Team**

**Squadron Leader William McMiken BSc(Hons) RAF**



Military Aviation Authority

# MAA

Military Display Teams

- 2021- Achievements
- 2021- Challenges
- 2022- Team Availability
- 2022- Expectation



# 2021 Achievements

- Requests(before cancellations)
  - 110 UK Display events
  - 40 Overseas events
- Achieved:
  - 60 UK Display events
  - 11 Overseas events
- All events that went ahead were accommodated



# 2021 Challenges

- Dynamic Programme
  - Covid Cancellations
  - Short Notice Turnaround- Thank you CAA!
  - Weather!
- Balancing operational capability vs evolving requirement
- Expectation:
  - RAFAT viewed as a governmental “Brand UK” asset
  - Short Notice Availability





# RAFAT 2021



- 37 Displays at 31 Events
  - G7 Summit Cornwall
  - Pacific Future Forum-Portsmouth
  
- 6 Overseas Display Events
  - Croatia
  - Estonia
  - Belgium
  - Poland
  - Malta
  - UAE

- 19 Flypast Events
  - D-Day
  - Queens Birthday
  - NAFD
  - EURO Final Wembley
  - Great North Run



# BBMF 2021

- **33 UK Displays**
  - 1 Overseas Display Event
    - Czech Republic- Dakota
  - **242 Flypast Events**
- 759 Events planned
  - 420 Events cancelled (Covid)
  - 339 Events remaining
  - 59 Lost to weather
  - 5 Lost to Serviceability
  - Achieved 81% of requests.



# Typhoon 2021

- **19 UK Displays**
  - 8 Civil Events
  - 7 Mil Events
- **5 Overseas Displays**
  - Finland
  - Hungary
  - France



# JHC 2021

- **Chinook Display**
  - Bournemouth
  - Jersey
  - Guernsey
  - 5 Mil Events
  
- **1 Overseas Display Event**
  - Puma Static Slovakia



# NAVY 2021

- **Black Cats Wildcat Display**
  - Bournemouth
  - Sidmouth
  - 1 Military
  
- **1 Overseas Display Event**
  - Belgium- Sanicole



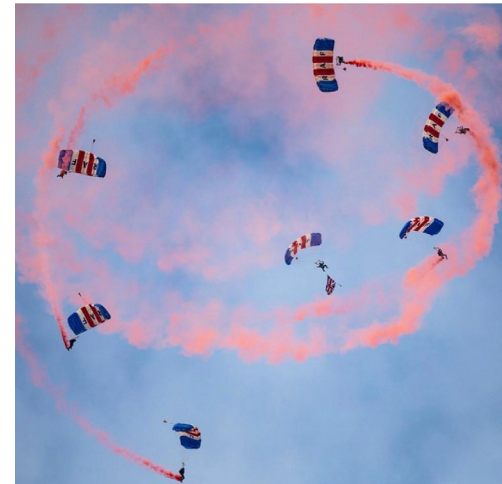
# RAF Falcons 2021

- **26 UK Displays**
  - 2 Air Shows-
    - Midlands/ Duxford
  - 9 Public (non air show)
    - F1 Silverstone
    - Balmoral Show NI
  - 10 Military events
- **1 Overseas Display Events**
  - France- Luxeuil Air Show



# RAF Falcons 2022

- Large Ground Engagement Potential
- Smaller Jump Window
- Adaptable Display
- Reduced Display Charge



# 2022 Availability- RAF

- **RAFAT**
  - Full Season Jun-Sep inclusive
- **BBMF**
  - Full Season Jun-Sep inclusive
  - Lancaster, Hurricane and Spitfire
- **Typhoon**
  - Jun-Sep limited to 12 weekends
- **Tutor**
  - TBC
- **RAF Falcons**
  - May to Oct inclusive



ROYAL  
AIR FORCE





# 2022 Availability- RAF



- **F-35**
  - Very limited availability for Role Demo/Flypast
- **P8 Posiedon**
  - Very limited flypast potential
- **A400M/ C-17/ Voyager**
  - Operationally focused
- **C130 Hercules**
  - OSD 2023
  - TBC on 2022 availability



# 2022 Availability- JHC

- **Chinook Display**
  - Still TBC
- **Apache Display**
  - Still TBC
- **Puma**
  - Limited availability for static
  
- **Confirmation by March**



# 2022 Availability- Navy



- **Black Cats Wildcat Solo Display**
  - Available Jun-Sep
- **Wildcat Statics**
  - Limited Availability
- **Merlin Statics**
  - Limited availability
  
- **Confirmation by March**



# 2022 Expectations



- **Requests**
  - 105 UK Display events
  - 32 Overseas Display events
- **Priorities:**
  - “Building Back” and “Levelling Up”
  - Queen’s Platinum Jubilee Events
  - Commonwealth Games
- **First cut**
  - almost all events will have Mil display representation.



# British Air Display Association (BADA)



## **Matt Wilkins - Chairman**

# Bournemouth Air Show

- FDD – Dave Walton
- DA – David Barrell
  
- 4 September 2021



# Boeing Stearman Ditching

## Bournemouth Air Festival

Dave Walton & Dave Barrell



## Scope

Background and Bournemouth Air Festival Information

Sequence of Events

Actions and Decision Making

Display Pilot

FDD & FCC Team

Learning & Thinking Points

Questions



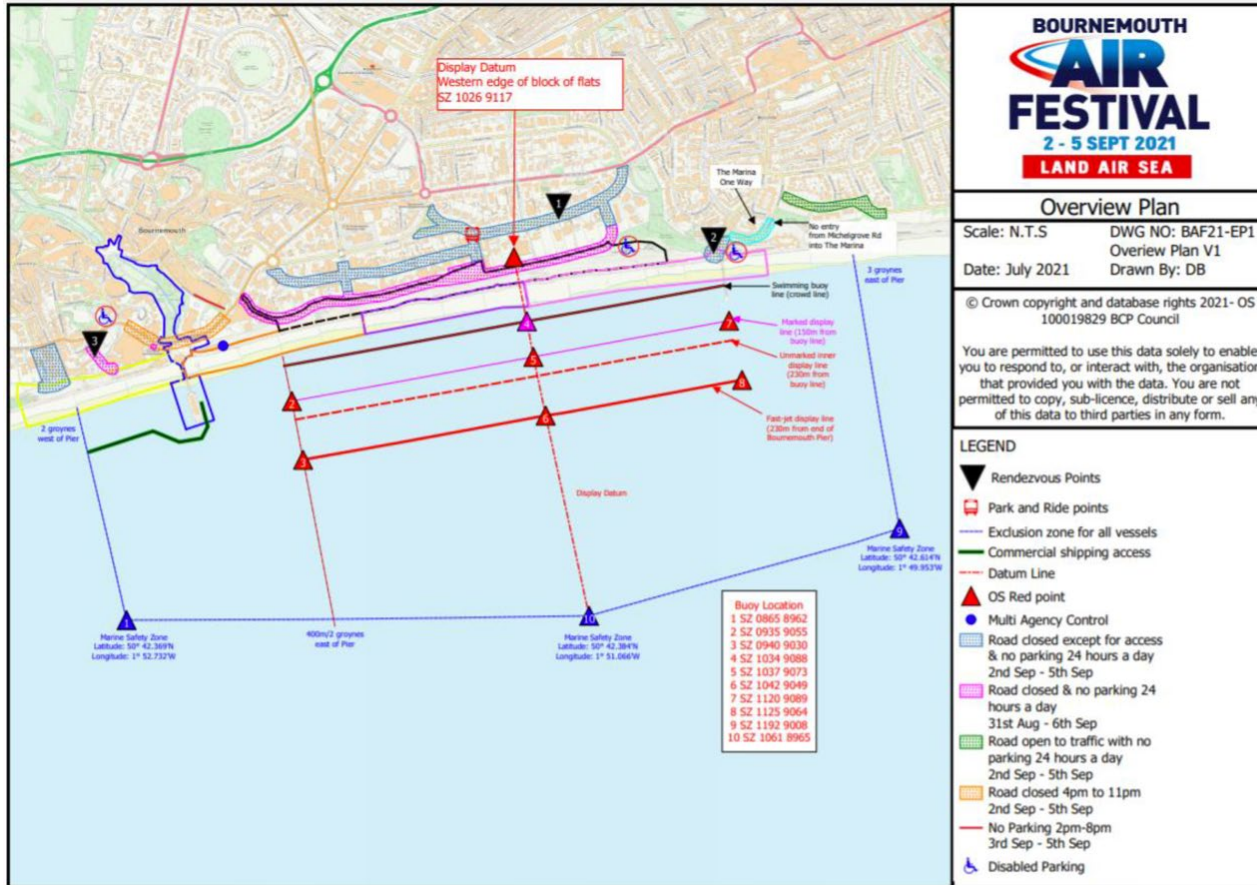
## Background and Bournemouth Air Festival Information

- Bournemouth Air Festival
- 4 day Tier 3 seafront airshow held between Boscombe and Bournemouth Piers
- Traditionally attracts very large crowds in the event space – 670,000 in 2021
  - Crowd located on the beach, and also on the road on the clifftop
  - Also large numbers of people along the beaches to Christchurch and Sandbanks
- Daytime flying display from 1300-1700
  - Dusk show
- Flying Display team of 8
  - FDD
  - FCC/Deputy FDD x2
  - FCC x4
  - A/G Operator x1
- Flying display team located on top of the cliffs

## Marine Safety

- Advisory Maritime Safety Zone which also forms the display area
- Primary Safety boat plus RHIBs and jetskis
  - Policing the MSZ for infringing vessels
  - Maintaining the integrity of the MSZ by managing moorings of pleasure craft





## Aerosuperbatics Wingwalking Display

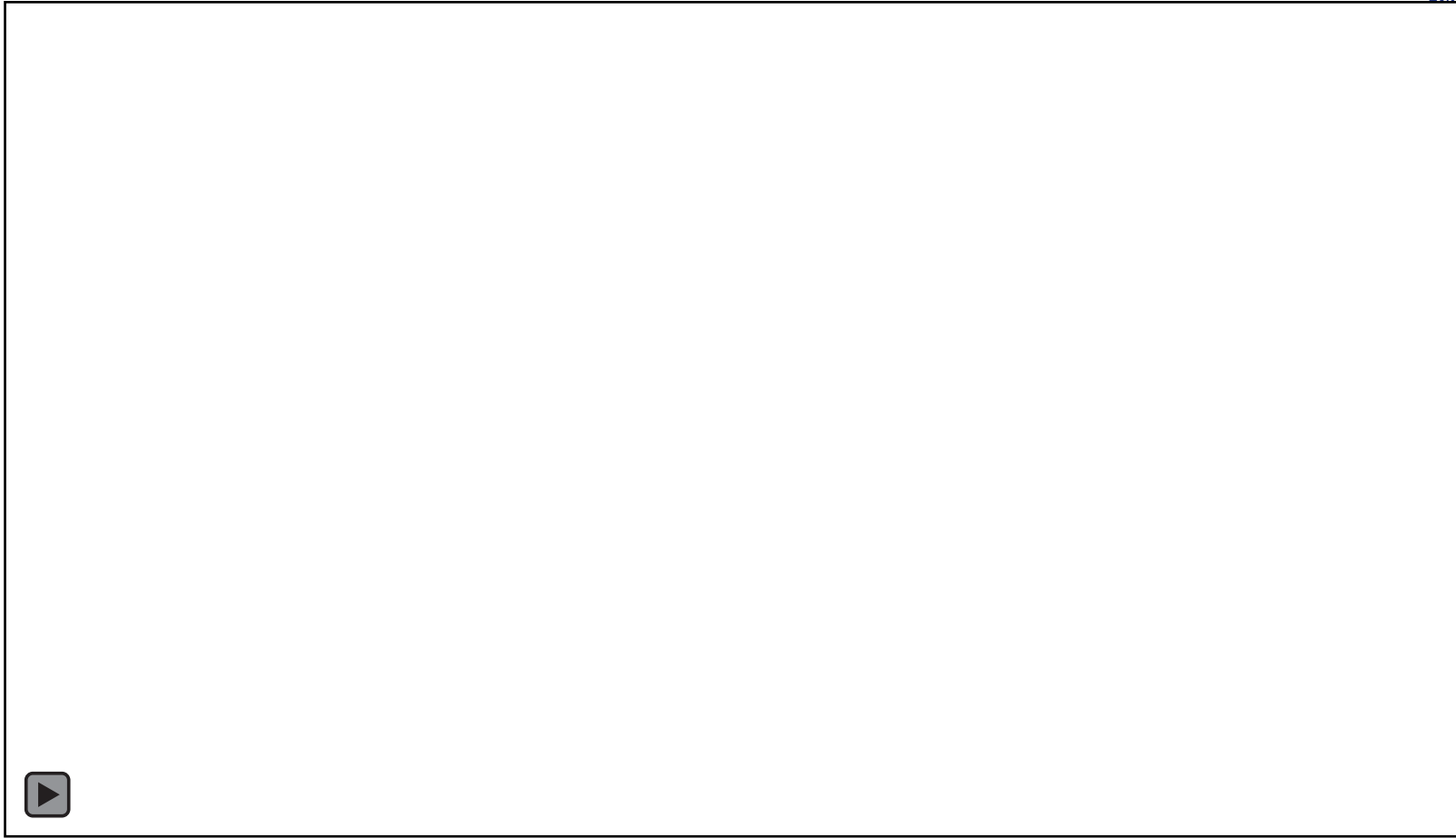
- 2x Boeing Stearman biplanes
- Wingwalkers secured to a swivelling rig on the top wing
- Formation and opposition manoeuvres

## Sequence of Events

















# Actions and Decision Making

## Display Pilot Perspective



## Actions and Decision Making

### FDD perspective

- Bournemouth Multi Agency Control
- Coastguard Liaison
  - Fed into MAC for response
- Log keeping & notifications
- Confirmation of rescue, notification and stand down of response
- Reporting
  - AAIB
  - Logs
  - SMS
  - Witness statements and recollections as required

# Actions and Decision Making

DATE 04 / 09 / 21. PAGE.051  
BOURNEMOUTH

1519 BOURNEMOUTH ATC CALLED WITH REPORTS OF A DRONE OPERATING IN VICINITY OF ST LEONARDS (NEAR HURN AIRFIELD). ASSESSED TO BE NO FURTHER TO EARLY RECOVERY. POLICE AWAKE AND DEALING WITH THE INCIDENT.

1545 WINGWALKER 1 CALLS A ROUGH RUNNING ENGINE DURING DISPLAY. DISPLAY IS TERMINATED BY WINGWALKER AND THEY DEPART THE DISPLAY AREA TO THE WEST.

1546 WINGWALKER 1 REPORTS ENGINE FAILURE AND POWERS DOWN.

1547 WINGWALKER 1 SEEMS TO RECOVER AND TURNS WEST TOWARDS POOLE HARBOUR.

1549 SMOKE SEEN FROM WHITE A/C (WINGWALKER 1) IN DISTANCE (OUTSIDE OF DISPLAY AREA). "COMPLETE LOSS OF POWER" CALLED BY WINGWALKER 1 ON BOURNEMOUTH TOWER FREQ.

1549 MAYDAY CALL MADE BY WINGWALKER 2 ON BOURNEMOUTH TOWER FREQ. REPORTS THAT "WINGWALKER 1 IS DOWN". FCC UNABLE TO SEE THE A/C.

1551 WINGWALKER 2 REPORTS THAT WINGWALKER 1 A/C HAS SUNK IN POOLE HARBOUR. BOATS ARE IN ATTENDANCE. COAST GUARD IS INFORMED.

1556 DAVE BARRELL'S WIFE (DIANA) ARRIVES AT FLYING CONTROL AND RECEIVES A CALL FROM HER HUSBAND TO SAY THAT BOTH HE + THE WINGWALKER (KRISTEN BOBBY) HAVE BEEN RECOVERED FROM THE WATER AND ARE NOT INJURED.

1620 AARIS NOTIFIED VIA DET 004 LINE DUTY OFFICER

1625 TELEPHONE CALL FROM DAVE LAIT (HARBOUR MASTER) TO ADVISE THAT THE A/C HAS BEEN LOCATED AND IS NO DANGER TO NAVIGATION OR THE POOLE FERRY. CCTV COVERAGE OF THE CRASH IS AVAILABLE.

1636 AARIS CONFIRM THAT THEY WILL NOT DEPLOY TO THE INCIDENT. A/C RECOVERY CAN PROCEED AIR BY POLICE + COASTGUARD.

1651 ALL REMAINING FLYING DISPLAY ACTIVITY CANCELLED FOR THE REMAINDER OF THE DAY. ALL RELEVANT PARTIES INFORMED.



## Actions and Decision Making

### FDD perspective

- Cancellation decision
  - Fuel
  - Airport/ATC
  - Other display crews
  - Event Staff
  - Emergency Services

## Learning & Thinking Points

Display Pilot/Team Perspective

- Laminated contacts cards
- What went well? What didn't?

## Learning & Thinking Points

### FDD/Event Perspective

- Work & meeting locations
  - Locations
  - Distance between
  - Transport?
- Family liaison
  
- Multi Agency planning meetings, SAGs and table top exercise provided great preparation
  - Value of direct contacts and knowing ES colleagues
- Pilot paperwork:
  - NOK contacts
  - Hazardous information details



# Flying Display Focus Group

**The purpose of the FDFG is to assist the CAA in the development of Flying Display policies, procedures and guidance in order that due attention is given to the areas of interest or concern in a collective effort to maintain and improve safety at Flying Displays, for Flying Display participants, and the general public.**



# Flying Display Focus Group

- **Cross Section Representation from the Display Community:**
  - 5 DAE
  - 13 DAs
  - 11 FDDs
  - EOs
  - More DAEs are always welcome



# FDFG - Recent Discussions

## Tyro DA on Permission

Review Display Permission wording to pre-authorise Tyros DAs to allow flexibility to FDDs without recourse to the CAA for a change in the Permission

**Agreed** - all 2022 permissions will pre-authorise Tyro Displays up to the appropriate number for that Tier

# FDFG - Recent Discussions

- **CAA AR Ops Brief on RA(T)s Submissions:**
  - Timeline is predicated upon ensuring all interlocutors get time to have an input into the application for a RA(T)
  - DFT will ultimately decide on whether a RA(T) is issued
  - Applicant to ensure all info, particularly on display items is detailed
  - AR Ops will ensure that early engagement takes place should there be a possibility that the RA(T) is not to be issued



# FDFG - Recent Discussions

- **SSAC restriction of operation at Air Displays**
  - Request from a number of SSAC operators to conduct SSAC activity on the same day as a flying display
  - Follow-on internal discussion – Policy Change and SSAC Exemption will be amended to say:

No SSAC flight shall be conducted on the same day as a Flying Display at the same location **except when the operator has conducted a specific risk assessment identifying and mitigating any significant changes. The SSAC pilot(s) must not be actively involved in the Flying Display.**

# FDFG - Recent Discussions

- **Discussion around the requirement to adhere to SERA outside a display area**
- Review of the requirement to adhere to SERA with no derogation outside of a display area, meaning a minimum of 500ft even if over the sea. This is significantly more restrictive than normal UK rules of the air.
- Flying Displays were removed from the scope of General Permissions concerning Exceptions to SERA minimum height requirements, in particular ORS4 No. 1174, following publication on **10 March 2016 of Air Accidents Investigation Branch Special Bulletin S1-2016.**

# FDFG - Recent Discussions

ORS4 No. 1174 has now been superseded by ORS4 No. 1496 which further clarifies minimum heights applicable at Flying Displays.

**Agreed:** FDD/AFDD Options included:

- Larger display areas
- The use of additional display areas (e.g. Area B)
- Suitable mitigation for features within a display area (minor road etc)

# Forward Look - Priorities

- **Adjustment of SRG 1305 – FDD Event Reporting Form**
- **Review 2022 FDD Course construct**
- **Given the hiatus in face-to-face engagement re establish attended Symposia events**
- **Deliver CAP 403/1724 as per schedule**
- **Facilitate PYRO and Night Display Study**
- **Continue with the timely production of Display Permissions**

# How you can help

- Please engage with the CAP Consultation process
- In 2021:
  - 51% of applications arrived with less than 42 days to go
  - 10% arrived with less than 14 days to go
  - It is accepted that COVID affected normal planning cycles
- Every expectation is DS 22 will be a full Display Season
- Please submit your application with at least 42 day to go to the event, with RA. Map and Schedule of Items (if applicable).

**I then undertake to get the permission to you by 14 days to the event .**

# ..... and finally

- **Pre-Display Symposium**
  - **23/24 March 2022 At Defence College Shrivenham**
- You can email me on [Paul.sall@caa.co.uk](mailto:Paul.sall@caa.co.uk) at any time
- I look forward to working together with you so that we can all achieve a safe and effective DS 22.

# Questions

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