

Assessment Summary Sheet for UKAB Meeting on Wednesday 13th November 2019

Total	A	B	C	D	E
16	0	5	8	1	2

Airprox	Aircraft 1 (Type)	Aircraft 2 (Type)	Airspace (Class)	ICAO Risk
2019158	PA28 (Civ FW)	JetRanger (Civ Helo)	London FIR (G)	E
2019160	EC175 (Civ Comm)	R22 (Civ Helo)	Aberdeen CTR (D)	E
2019161	C130J (HQ Air Ops)	Helicopter (Unknown)	London FIR (G)	D
2019162	C560 (Civ FW)	Bulldog (Civ FW)	Prestwick CTR (D)	B
2019163	PA31 (Civ FW)	PA28 (Civ FW)	London FIR (G)	B
2019164	Duo-Discus (Civ Gld)	Typhoon pair (HQ Air Ops)	Easterton Avoid (G)	C
2019165	Kitfox (Civ FW)	DR400 (Civ FW)	London FIR (G)	C
2019169	Paramotors (Civ Gld)	CH47 Chinook (HQ JHC)	London FIR (G)	C
2019170	Prefect (HQ Air Trg)	PA28 (Civ FW)	London FIR (G)	C
2019175	Grob 109 (Civ Gld)	Miles Falcon (Civ FW)	London FIR (G)	B
2019176	Ventus (Civ Gld)	C182 (Civ FW)	London FIR (G)	B
2019178	DHC6 (Civ FW)	EC135 (Civ Helo)	London FIR (G)	C
2019180	MD902 (HEMS)	EC120 (Civ FW)	London FIR (G)	C
2019183	PA28 (Civ FW)	Spitfire (Civ FW)	London FIR (G)	B
2019184	C152 (Civ FW)	SR22 (Civ FW)	London FIR (G)	C
2019188	Voyager (HQ Air Ops)	Typhoon (HQ Air Ops)	London UIR (C)	C

2019158			
CF	Factor	Description	Amplification
Ground Elements			
• Situational Awareness and Action			
1	Contextual	• Situational Awareness and Sensory Events	Not required to monitor the aircraft under the agreed service
Flight Elements			
• Tactical Planning and Execution			
2	Human Factors	• Communications by Flight Crew with ANS	Appropriate ATS not requested by pilot
• Situational Awareness of the Conflicting Aircraft and Action			
3	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• See and Avoid			
4	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots
5	Human Factors	• Perception of Visual Information	Pilot perceived there was no conflict

6	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft
---	---------------	------------------------------------	--

2019160			
CF	Factor	Description	Amplification
Flight Elements			
• Situational Awareness of the Conflicting Aircraft and Action			
1	Human Factors	• Interpretation of Automation or Flight Deck Information	Pilot was concerned by the proximity of the other aircraft
• Electronic Warning System Operation and Compliance			
2	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
• See and Avoid			
3	Human Factors	• Monitoring of Other Aircraft	Sighting report

2019161			
CF	Factor	Description	Amplification
Ground Elements			
• Situational Awareness and Action			
1	Contextual	• Situational Awareness and Sensory Events	Not required to monitor the aircraft under the agreed service
Flight Elements			
• Situational Awareness of the Conflicting Aircraft and Action			
2	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• Electronic Warning System Operation and Compliance			
3	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
• See and Avoid			
4	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots

2019162			
CF	Factor	Description	Amplification
Ground Elements			
• Regulations, Processes, Procedures and Compliance			
1	Human Factors	• ATM Regulatory Deviation	Regulations and/or procedures not complied with
• Manning and Equipment			
2	Organisational	• Aerodrome and ATM Equipment	Inadequate or unavailable equipment
• Situational Awareness and Action			
3	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
4	Human Factors	• Conflict Detection - Not Detected	
5	Human Factors	• Traffic Management Information Provision	Not provided, inaccurate, inadequate, or late
6	Human Factors	• ATM Coordination	Inadequate or ineffective
Flight Elements			
• Regulations, Processes, Procedures and Compliance			
7	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with

	• Tactical Planning and Execution		
8	Human Factors	• Insufficient Decision/Plan	Inadequate plan adaption
9	Human Factors	• Action Performed Incorrectly	Did not follow instructions
10	Human Factors	• Aircraft Navigation	Did not avoid/conform with the pattern of traffic already formed
	• Situational Awareness of the Conflicting Aircraft and Action		
11	Human Factors	• Lack of Action	Pilot flew into conflict despite Situational Awareness
12	Human Factors	• Distraction - Job Related	Pilot was engaged in other tasks
13	Human Factors	• Monitoring of Other Aircraft	Pilot did not sufficiently integrate with the other aircraft
	• Electronic Warning System Operation and Compliance		
14	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
	• See and Avoid		
15	Human Factors	• Distraction - Job Related	Pilot looking elsewhere
16	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots
17	Human Factors	• Lack of Action	Pilot flew close enough to cause the other pilot concern

2019163			
CF	Factor	Description	Amplification
	Ground Elements		
	• Regulations, Processes, Procedures and Compliance		
1	Human Factors	• ATM Regulatory Deviation	Regulations and/or procedures not complied with
	• Manning and Equipment		
2	Organisational	• ATM Staffing and Scheduling	Sub-Optimal establishment or scheduling of staff
	• Situational Awareness and Action		
3	Human Factors	• Conflict Resolution- Inadequate	
4	Human Factors	• Inappropriate Clearance	Controller instructions contributed to the conflict
	Flight Elements		
	• Regulations, Processes, Procedures and Compliance		
5	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
	• Tactical Planning and Execution		
6	Human Factors	• Action Performed Incorrectly	Incorrect or ineffective execution
	• Situational Awareness of the Conflicting Aircraft and Action		
7	Human Factors	• Lack of Action	Pilot flew into conflict despite Situational Awareness
8	Human Factors	• Mentoring	Sub-Optimal
	• See and Avoid		
9	Human Factors	• Lack of Action	Pilot flew into conflict

2019164			
CF	Factor	Description	Amplification
Ground Elements			
• Situational Awareness and Action			
1	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
Flight Elements			
• Regulations, Processes, Procedures and Compliance			
2	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
• Tactical Planning and Execution			
3	Human Factors	• Insufficient Decision/Plan	Inadequate plan adaption
4	Human Factors	• Transponder Selection and Usage	
5	Human Factors	• Aircraft Navigation	Flew through promulgated and active airspace or sporting site
• Situational Awareness of the Conflicting Aircraft and Action			
6	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• Electronic Warning System Operation and Compliance			
7	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
• See and Avoid			
8	Human Factors	• Monitoring of Other Aircraft	Sighting report

2019165			
CF	Factor	Description	Amplification
Ground Elements			
• Situational Awareness and Action			
1	Contextual	• Situational Awareness and Sensory Events	Not required to monitor the aircraft under the agreed service
Flight Elements			
• Regulations, Processes, Procedures and Compliance			
2	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
• Tactical Planning and Execution			
3	Human Factors	• Insufficient Decision/Plan	Inadequate plan adaption
4	Human Factors	• Aircraft Navigation	Did not avoid/conform with the pattern of traffic already formed
• Situational Awareness of the Conflicting Aircraft and Action			
5	Human Factors	• Lack of Action	Pilot flew into conflict despite Situational Awareness
6	Human Factors	• Monitoring of Other Aircraft	Pilot did not sufficiently integrate with the other aircraft
• See and Avoid			
7	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots
8	Human Factors	• Lack of Action	Pilot flew into conflict

2019169			
CF	Factor	Description	Amplification
Ground Elements			

• Regulations, Processes, Procedures and Compliance			
1	Organisational	• Organisational Documentation and Publications	Inadequate regulations or procedures
• Situational Awareness and Action			
2	Contextual	• Situational Awareness and Sensory Events	Not required to monitor the aircraft under the agreed service
Flight Elements			
• Regulations, Processes, Procedures and Compliance			
3	Organisational	• Flight Operations Documentation and Publications	Inadequate regulations or procedures
• Tactical Planning and Execution			
4	Organisational	• Flight Planning Information Sources	Inadequate planning material
5	Human Factors	• Aircraft Navigation	Flew through promulgated and active airspace or sporting site
• Situational Awareness of the Conflicting Aircraft and Action			
6	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• Electronic Warning System Operation and Compliance			
7	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
• See and Avoid			
8	Human Factors	• Monitoring of Other Aircraft	Sighting report

2019170			
CF	Factor	Description	Amplification
Ground Elements			
• Regulations, Processes, Procedures and Compliance			
1	Organisational	• Organisational Documentation and Publications	Inadequate regulations or procedures
• Situational Awareness and Action			
2	Contextual	• Situational Awareness and Sensory Events	Not required to monitor the aircraft under the agreed service
3	Human Factors	• Conflict Detection - Detected Late	
4	Human Factors	• Traffic Management Information Provision	Not provided, inaccurate, inadequate, or late
5	Human Factors	• ATM Coordination	Inadequate or ineffective
Flight Elements			
• Regulations, Processes, Procedures and Compliance			
6	Organisational	• Flight Operations Documentation and Publications	Inadequate regulations or procedures
• Situational Awareness of the Conflicting Aircraft and Action			
7	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• Electronic Warning System Operation and Compliance			
8	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
• See and Avoid			
9	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

2019175			
CF	Factor	Description	Amplification
Ground Elements			
• Situational Awareness and Action			
1	Contextual	• Situational Awareness and Sensory Events	Not required to monitor the aircraft under the agreed service
Flight Elements			
• Tactical Planning and Execution			
2	Human Factors	• Communications by Flight Crew with ANS	Appropriate ATS not requested by pilot
• Situational Awareness of the Conflicting Aircraft and Action			
3	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• See and Avoid			
4	Human Factors	• Distraction - Job Related	Pilot looking elsewhere
5	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots
6	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots

2019176			
CF	Factor	Description	Amplification
Ground Elements			
• Situational Awareness and Action			
1	Contextual	• Situational Awareness and Sensory Events	Not required to monitor the aircraft under the agreed service
Flight Elements			
• Tactical Planning and Execution			
2	Human Factors	• Communications by Flight Crew with ANS	Appropriate ATS not requested by pilot
3	Human Factors	• Communications by Flight Crew with ANS	Pilot did not communicate with appropriate service provider
• Situational Awareness of the Conflicting Aircraft and Action			
4	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• Electronic Warning System Operation and Compliance			
5	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
• See and Avoid			
6	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots
7	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots

2019178			
CF	Factor	Description	Amplification
Ground Elements			
• Situational Awareness and Action			
1	Human Factors	• Distraction - Job Related	
2	Human Factors	• ATM Personnel Hear back	Incorrect readback not detected/corrected
Flight Elements			

	• Tactical Planning and Execution		
3	Human Factors	• Insufficient Decision/Plan	Inadequate plan adaption
4	Human Factors	• Action Performed Incorrectly	Did not follow instructions
	• Situational Awareness of the Conflicting Aircraft and Action		
5	Human Factors	• Understanding/Comprehension	Pilot did not assimilate conflict information
6	Human Factors	• Lack of Communication	Pilot did not request additional information
7	Human Factors	• Lack of Action	Pilot flew close enough to cause concern despite Situational Awareness
8	Human Factors	• Distraction - Job Related	Pilot was engaged in other tasks
	• Electronic Warning System Operation and Compliance		
9	Human Factors	• Interpretation of Automation or Flight Deck Information	CWS alert expected but none reported
	• See and Avoid		
10	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

2019180			
CF	Factor	Description	Amplification
	Ground Elements		
	• Situational Awareness and Action		
1	Contextual	• Situational Awareness and Sensory Events	Not required to monitor the aircraft under the agreed service
2	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
	Flight Elements		
	• Regulations, Processes, Procedures and Compliance		
3	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
	• Tactical Planning and Execution		
4	Human Factors	• Action Performed Incorrectly	Incorrect or ineffective execution
5	Human Factors	• Aircraft Navigation	Did not avoid/conform with the pattern of traffic already formed
6	Human Factors	• Accuracy of Communication	Ineffective communication of intentions
7	Human Factors	• Communications by Flight Crew with ANS	Pilot did not communicate with appropriate service provider
	• Situational Awareness of the Conflicting Aircraft and Action		
8	Human Factors	• Lack of Action	Pilot flew into conflict despite Situational Awareness
9	Human Factors	• Monitoring of Other Aircraft	Pilot did not sufficiently integrate with the other aircraft
	• Electronic Warning System Operation and Compliance		
10	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
	• See and Avoid		
11	Human Factors	• Perception of Visual Information	Pilot perceived there was no conflict
12	Human Factors	• Lack of Action	Pilot flew close enough to cause the other pilot concern
13	Human Factors	• Lack of Action	Pilot flew into conflict

2019183			
CF	Factor	Description	Amplification
Flight Elements			
• Regulations, Processes, Procedures and Compliance			
1	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
• Tactical Planning and Execution			
2	Human Factors	• Transponder Selection and Usage	
• Situational Awareness of the Conflicting Aircraft and Action			
3	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• See and Avoid			
4	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots
5	Human Factors	• Perception of Visual Information	Pilot perceived there was no conflict
6	Human Factors	• Lack of Action	Pilot flew into conflict

2019184			
CF	Factor	Description	Amplification
Ground Elements			
• Situational Awareness and Action			
1	Contextual	• Situational Awareness and Sensory Events	Not required to monitor the aircraft under the agreed service
Flight Elements			
• Regulations, Processes, Procedures and Compliance			
2	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
• Tactical Planning and Execution			
3	Human Factors	• Insufficient Decision/Plan	Inadequate plan adaption
• Situational Awareness of the Conflicting Aircraft and Action			
4	Human Factors	• Lack of Action	Pilot flew close enough to cause concern despite Situational Awareness
• Electronic Warning System Operation and Compliance			
5	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
6	Human Factors	• Interpretation of Automation or Flight Deck Information	CWS misinterpreted or not optimally actioned
• See and Avoid			
7	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots
8	Human Factors	• Perception of Visual Information	Pilot perceived there was no conflict
9	Human Factors	• Lack of Individual Risk Perception	Pilot flew close enough to cause the other pilot concern

2019188			
CF	Factor	Description	Amplification
Ground Elements			
• Regulations, Processes, Procedures and Compliance			
1	Human Factors	• ATM Regulatory Deviation	Regulations and/or procedures not complied with

• Situational Awareness and Action		
2	Human Factors	• Conflict Detection - Detected Late
3	Human Factors	• Inappropriate Clearance Controller instructions contributed to the conflict
4	Human Factors	• Traffic Management Information Provision Not provided, inaccurate, inadequate, or late
5	Human Factors	• Distraction - Job Related
Flight Elements		
• Situational Awareness of the Conflicting Aircraft and Action		
6	Contextual	• Situational Awareness and Sensory Events Generic, late, no or incorrect Situational Awareness
• Electronic Warning System Operation and Compliance		
7	Contextual	• ACAS/TCAS RA TCAS RA event
• See and Avoid		
8	Contextual	• Near Airborne Collision with Aircraft, Balloon, Dirigible or Other Piloted Air Vehicle A conflict in the FIR