

Assessment Summary Sheet for UKAB Meeting on Wednesday 17th July 2019

Total	A	B	C	D	E
17	2	7	7	0	1

Airprox	Aircraft 1 (Type)	Aircraft 2 (Type)	Airspace (Class)	ICAO Risk
2019064	ASK21 (Civ Gld)	Glider (Civ Gld)	London FIR (G)	A
2019065	SR20 (Civ FW)	Paramotor (Civ Hang)	London FIR (G)	B
2019066	C172 (Civ FW)	Bulldog (Civ FW)	London FIR (G)	B
2019070	C17 (HQ Air Ops)	Glider (Civ Gld)	London FIR (G)	C
2019071	C152 (Civ FW)	AA-5 (Civ FW)	Tatenhill ATZ (G)	B
	Recommendation: The CAA review R/T procedures at non-ATS aerodromes.			
2019072	EMB135 (Civ Comm)	DH82(A) (Civ FW)	London FIR (G)	C
2019074	PA17 (Civ FW)	PA28 (Civ FW)	London FIR (G)	C
2019077	Parachutist (Civ Para)	F15 (Foreign Mil)	London FIR (G)	B
2019078	Do228 (CAT)	C42 (Civ FW)	Solent CTR (D)	C
2019079	Viking (HQ Air Trg)	BE58 (Civ FW)	London FIR (G)	B
2019083	Wildcat (RN)	Glider (Civ Gld)	London FIR (G)	B
2019085	Saab 340 (CAT)	F15 (Foreign Mil)	Scottish FIR (G)	E
2019087	Viking (HQ Air Trg)	DA40 (Civ FW)	Syerston ATZ/London FIR (G)	C
2019092	PA28 (Civ FW)	Glider (Civ Gld)	London FIR (G)	C
2019096	SF25 (Civ Gld)	A109 (Civ Helo)	Enstone /London FIR (G)	C
2019097	RV6 (Civ FW)	PA28 (Civ FW)	London FIR (G)	B
2019099	Hawk (HQ Air Ops)	Glider 1 and 2 (Civ Gld)	VoY AAIA/London FIR (G)	A

Contributory Factors:

2019064-Barriers.			
CF	Factor	Description	Amplification
Flight Elements			
• Tactical Planning and Execution			
1	Human Factors	• Accuracy of Communication	Ineffective communication of intentions
• Situational Awareness of the Conflicting Aircraft and Action			
2	Contextual	• Situational Awareness and Sensory Events	Pilot had no, only generic, or late Situational Awareness
• Electronic Warning System Operation and Compliance			
3	Technical	• ACAS/TCAS System Failure	CWS did not alert as expected
• See and Avoid			
4	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

2019065-Barriers.x			
CF	Factor	Description	Amplification
Flight Elements			
• Situational Awareness of the Conflicting Aircraft and Action			
1	Contextual	• Situational Awareness and Sensory Events	Pilot had no, only generic, or late Situational Awareness
2	Human Factors	• Distraction - Job Related	Pilot was distracted by other tasks
• 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

2019066-Barriers.x			
CF	Factor	Description	Amplification
Ground Elements			
• Situational Awareness and Action			
1	Contextual	• Situational Awareness and Sensory Events	Only generic, late or no 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	• Aircraft Navigation	Did not avoid/conform with the pattern of traffic already formed
5	Human Factors	• Accuracy of Communication	Ineffective communication of intentions
• Situational Awareness of the Conflicting Aircraft and Action			
6	Human Factors	• Understanding/Comprehension	Pilot did not assimilate conflict information
7	Human Factors	• Lack of Action	Pilot flew into conflict despite Situational Awareness
8	Human Factors	• Distraction - Job Related	Pilot was distracted by other tasks
• See and Avoid			
9	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots
10	Human Factors	• Lack of Action	Pilot flew into conflict

2019070-Barriers			
CF	Factor	Description	Amplification
Flight Elements			
• Situational Awareness of the Conflicting Aircraft and Action			
1	Human Factors	• Lack of Action	Pilot flew into conflict despite Situational Awareness
• Electronic Warning System Operation and Compliance			
2	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
• See and Avoid			
3	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

2019071-Barriers.			
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	• Action Performed Incorrectly	Incorrect or ineffective execution
3	Human Factors	• Aircraft Navigation	Did not avoid/conform with the pattern of traffic already formed
4	Human Factors	• Accuracy of Communication	Ineffective communication of intentions
• Situational Awareness of the Conflicting Aircraft and Action			
5	Human Factors	• Understanding/Comprehension	Pilot did not assimilate conflict information
6	Human Factors	• Monitoring of Other Aircraft	Pilot did not sufficiently integrate with the other aircraft
• See and Avoid			
7	Contextual	• Poor Visibility Encounter	One or both aircraft were obscured from the other
8	Human Factors	• Distraction - Job Related	Pilot looking elsewhere
9	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

2019072-Barriers.x			
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	• Conflict Resolution - Provided Late	
4	Human Factors	• Traffic Management Information Provision	Not provided, inaccurate, inadequate, or late
5	Human Factors	• Personnel Perception Events	Concerned by the proximity of the aircraft
Flight Elements			
• Tactical Planning and Execution			
6	Human Factors	• No Decision/Plan	Inadequate planning
7	Human Factors	• Accuracy of Communication	Ineffective communication of intentions
8	Human Factors	• Communications by Flight Crew with ANS	Appropriate ATS not requested by pilot
9	Human Factors	• Communications by Flight Crew with ANS	Pilot did not communicate with appropriate airspace controlling authority
• Situational Awareness of the Conflicting Aircraft and Action			
10	Contextual	• Situational Awareness and Sensory Events	Pilot had no, only generic, or late Situational Awareness
• Electronic Warning System Operation and Compliance			
11	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment

2019074-Barriers.x			
CF	Factor	Description	Amplification
Flight Elements			
• Tactical Planning and Execution			
1	Human Factors	• Communications by Flight Crew with ANS	Pilot did not communicate with appropriate airspace controlling authority
• Situational Awareness of the Conflicting Aircraft and Action			
2	Contextual	• Situational Awareness and Sensory Events	Pilot had no, only generic, or late Situational Awareness
• Electronic Warning System Operation and Compliance			
3	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
• See and Avoid			
4	Contextual	• Near Airborne Collision with Aircraft, Balloon, Dirigible or Other Piloted Air Vehicle	A conflict in the FIR

2019077-Barriers.x			
CF	Factor	Description	Amplification
Ground Elements			
• Situational Awareness and Action			
1	Human Factors	• Conflict Detection - Not Detected	
2	Human Factors	• Traffic Management Information Provision	Not provided, inaccurate, inadequate, or late
3	Human Factors	• Distraction - Job Related	
Flight Elements			
• Regulations, Processes, Procedures and Compliance			
4	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
• Tactical Planning and Execution			
5	Human Factors	• No Decision/Plan	Inadequate planning
6	Human Factors	• Aircraft Navigation	Flew through promulgated and active airspace
• Situational Awareness of the Conflicting Aircraft and Action			
7	Contextual	• Situational Awareness and Sensory Events	Pilot had no, only generic, or late Situational Awareness
• See and Avoid			
8	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

2019078-Barriers			
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
5	Human Factors	• Distraction - Job Related	
Flight Elements			
• Situational Awareness of the Conflicting Aircraft and Action			
6	Human Factors	• Understanding/Comprehension	Pilot did not assimilate conflict information
7	Human Factors	• Lack of Action	Pilot flew into conflict despite Situational Awareness
8	Human Factors	• Distraction - Job Related	Pilot was distracted by other tasks
• Electronic Warning System Operation and Compliance			
9	Contextual	• ACAS/TCAS RA	TCAS RA event
• See and Avoid			
10	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots
11	Human Factors	• Lack of Action	Pilot flew into conflict

2019079-Barriers.x			
CF	Factor	Description	Amplification
Ground Elements			
• Situational Awareness and Action			
1	Contextual	• Situational Awareness and Sensory Events	Only generic, late or no Situational Awareness
2	Human Factors	• Conflict Detection - Not Detected	
3	Human Factors	• ATM Coordination	Inadequate or ineffective
Flight Elements			
• Situational Awareness of the Conflicting Aircraft and Action			
4	Contextual	• Situational Awareness and Sensory Events	Pilot had no, only generic, or late 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	Late-sighting by one or both pilots

2019083-Barriers.x			
CF	Factor	Description	Amplification
Ground Elements			
• Situational Awareness and Action			
1	Contextual	• Situational Awareness and Sensory Events	Only generic, late or no Situational Awareness
2	Human Factors	• Conflict Detection - Not Detected	
Flight Elements			
• Situational Awareness of the Conflicting Aircraft and Action			
3	Contextual	• Situational Awareness and Sensory Events	Pilot had no, only generic, or late Situational Awareness
4	Human Factors	• Distraction - Job Related	Pilot was engaged in other tasks
• 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

2019085-Barriers.x			
CF	Factor	Description	Amplification
Ground Elements			
• Manning and Equipment			
1	Organisational	• Aerodrome and ATM Equipment	Inadequate or unavailable equipment
Flight Elements			
• Tactical Planning and Execution			
2	Human Factors	• Communications by Flight Crew with ANS	Pilot did not communicate with appropriate airspace controlling authority
• Situational Awareness of the Conflicting Aircraft and Action			
3	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			
4	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
• See and Avoid			
5	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

2019087-Barriers.x			
CF	Factor	Description	Amplification
Flight Elements			
• Tactical Planning and Execution			
1	Human Factors	• Communications by Flight Crew with ANS	Pilot did not communicate with appropriate airspace controlling authority
• Situational Awareness of the Conflicting Aircraft and Action			
2	Contextual	• Situational Awareness and Sensory Events	Pilot had no, only generic, or late 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	Non-sighting or effectively a non-sighting by one or both pilots
5	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots
6	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

2019092-Barriers			
CF	Factor	Description	Amplification
Flight Elements			
• Situational Awareness of the Conflicting Aircraft and Action			
1	Contextual	• Situational Awareness and Sensory Events	Pilot had no, only generic, or late Situational Awareness
• See and Avoid			
2	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots

2019096-Barriers.x			
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	Human Factors	• Conflict Detection - Not Detected	
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	• No Decision/Plan	Inadequate planning
5	Human Factors	• Aircraft Navigation	Did not avoid/conform with the pattern of traffic already formed
6	Human Factors	• Communications by Flight Crew with ANS	Pilot did not communicate with appropriate controlling authority
• Situational Awareness of the Conflicting Aircraft and Action			
7	Contextual	• Situational Awareness and Sensory Events	Pilot had no, only generic, or late Situational Awareness
• See and Avoid			
8	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots
9	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots

2019097-Barriers.x			
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	• Insufficient Decision/Plan	Inadequate plan adaption
3	Human Factors	• Communications by Flight Crew with ANS	Pilot did not communicate with appropriate controlling authority
• Situational Awareness of the Conflicting Aircraft and Action			
4	Contextual	• Situational Awareness and Sensory Events	Pilot had no, only generic, or late Situational Awareness
5	Human Factors	• Mentoring	Sub-Optimal
• Electronic Warning System Operation and Compliance			
6	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
• See and Avoid			
7	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots
8	Human Factors	• Lack of Action	Pilot flew into conflict

2019099-Barriers.x			
CF	Factor	Description	Amplification
Ground Elements			
• Situational Awareness and Action			
1	Contextual	• Situational Awareness and Sensory Events	Only generic, late or no Situational Awareness
2	Human Factors	• Conflict Detection - Not Detected	
Flight Elements			
• Tactical Planning and Execution			
3	Human Factors	• Communications by Flight Crew with ANS	Pilot did not communicate with appropriate controlling authority
• Situational Awareness of the Conflicting Aircraft and Action			
4	Contextual	• Situational Awareness and Sensory Events	Pilot had no, only generic, or late 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