

Assessment Summary Sheet for UKAB Meeting on Wednesday 15th January 2020

Total	A	B	C	D	E
23	3	5	11	0	4

Airprox	Aircraft 1 (Type)	Aircraft 2 (Type)	Airspace (Class)	ICAO Risk
2019177	Paraglider (Civ Gld)	Hughes 500 (Civ Helo)	London FIR (G)	C
2019193	Prefect (HQ Air Trg)	Extra 300 (Civ FW)	London FIR (G)	B
2019196	ASW Glider (Civ Gld)	DA42 (Civ FW)	London FIR (G)	E
2019199	Tutor (HQ Air Trg)	Ventus Glider (Civ Gld)	London FIR (G)	B
2019201	RV12 (Civ FW)	P68 (Civ Comm)	London FIR (G)	A
	Recommendations: 1. The P68 operating company considers further mitigations to MAC for survey operations. 2. The CAA to consider mandating additional cockpit crew to enable enhanced lookout for single-pilot survey operations.			
2019208	P68 (Civ Comm)	PA28 (Civ FW)	London FIR (G)	E
	Recommendations: 1. The P68 operating company considers further mitigations to MAC for survey operations. 2. The CAA to consider mandating additional cockpit crew to enable enhanced lookout for single-pilot survey operations.			
2019209	A320 (CAT)	BE200 (Civ Comm)	Manchester TMA (A)	C
2019210	PA34 (Civ FW)	C206 (Civ FW)	London FIR (G)	C
	Recommendation: Gloucestershire Airport to clarify their AIP entry regarding departure procedures.			
2019215	DJI Phantom 4 (Civ UAS)	Avenger T Mk1 (RN)	London FIR (G)	E
2019216	Miles Whitney (Civ FW)	Extra 330 (Civ FW)	London FIR (G)	A
2019217	PA22 (Civ FW)	PA28 (Civ FW)	London FIR (G)	A
2019218	R22 (Civ Helo)	PA38 (Civ FW)	Doncaster CTR (D)	C
2019220	C150 (Civ FW)	Quik Flex-wing (Civ FW)	London FIR (G)	C
2019221	Pietenpol Aircamper (Civ FW)	C208 (Civ FW)	Old Sarum ATZ (G)	C
	Recommendation: Old Sarum to review their AIP entry to ensure coherence with the Old Sarum website and proprietary flight guide information.			
2019224	Mooney M20 (Civ FW)	Unknown Light Aircraft	London FIR (G)	B
2019225	P68 (Civ Comm)	C172 (Civ FW)	London FIR (G)	C
2019226	P68 (Civ Comm)	PA28 (Civ FW)	London FIR (G)	C
	Recommendations: 1. The P68 operating company considers further mitigations to MAC for survey operations. 2. The CAA to consider mandating additional cockpit crew to enable enhanced lookout for single-pilot survey operations.			

Airprox	Aircraft 1 (Type)	Aircraft 2 (Type)	Airspace (Class)	ICAO Risk
2019227	C404 (Civ Comm)	Unknown Glider	London FIR (G)	E
	Recommendations: 1. The C404 operating company considers further mitigations to MAC for survey operations. 2. The CAA to consider mandating additional cockpit crew to enable enhanced lookout for single-pilot survey operations.			
2019228	C172 (Civ FW)	C152 (Civ FW)	London FIR (G)	C
2019229	C150 (Civ FW)	AA-5 (Civ FW)	London FIR (G)	C
2019230	Jabiru UL450 (Civ FW)	Hurricane (Civ FW)	London FIR (G)	B
2019236	PW-5 Glider (Civ Gld)	SF260 (Civ FW)	London FIR (G)	B
2019237	Cabri G2 (Civ Helo)	C152 (Civ FW)	London FIR (G)	C

2019177			
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	Generic, late, no or incorrect Situational Awareness
• See and Avoid			
3	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots
4	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

2019193			
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	• Action Performed Incorrectly	Incorrect or ineffective execution
4	Human Factors	• Transponder Selection and Usage	
• Situational Awareness of the Conflicting Aircraft and Action			
5	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• 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	Non-sighting or effectively a non-sighting by one or both pilots
8	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots

2019196			
CF	Factor	Description	Amplification
Flight Elements			
• Tactical Planning and Execution			
1	Human Factors	• Communications by Flight Crew with ANS	Appropriate ATS not requested by pilot
2	Human Factors	• Communications by Flight Crew with ANS	Pilot did not communicate with appropriate service provider
• Situational Awareness of the Conflicting Aircraft and Action			
3	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• Electronic Warning System Operation and Compliance			
4	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
• See and Avoid			
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

2019199			
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			
• Tactical Planning and Execution			
2	Human Factors	• Transponder Selection and Usage	
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	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
6	Technical	• ACAS/TCAS System Failure	CWS did not alert as expected
• See and Avoid			
7	Human Factors	• Distraction - Job Related	Pilot looking elsewhere
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

2019201			
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	Organisational	• Flight Operations Documentation and Publications	Inadequate regulations or procedures
• Tactical Planning and Execution			
3		• Any other event	Absence of safety pilot
• 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	CWS did not alert as expected
• See and Avoid			
6	Human Factors	• Distraction - Job Related	Pilot looking elsewhere
7	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

	2019208		
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	Organisational	• Flight Operations Documentation and Publications	Inadequate regulations or procedures
• Tactical Planning and Execution			
3		• Any other event	Absence of Safety Pilot
• 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	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
• 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	• Perception of Visual Information	Pilot perceived there was no conflict
8	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

	2019209		
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	• Flight Level/Altitude Deviation (Level Bust)	

2019210			
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	Technical	• Aerodrome and ATM Equipment	Non-Functional equipment
3	Human Factors	• Mentoring	Sub-Optimal
• Situational Awareness and Action			
4	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
5	Human Factors	• Conflict Detection - Not Detected	
6	Human Factors	• Traffic Management Information Provision	Not provided, inaccurate, inadequate, or late
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	• No Decision/Plan	Inadequate planning
9	Human Factors	• Accuracy of Communication	Ineffective communication of intentions
• Situational Awareness of the Conflicting Aircraft and Action			
10	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• Electronic Warning System Operation and Compliance			
11	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
12	Technical	• ACAS/TCAS System Failure	CWS did not alert as expected
• See and Avoid			
13	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

2019215			
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	Non-sighting or effectively a non-sighting by one or both pilots

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

2019216			
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	• 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

2019217			
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
• Electronic Warning System Operation and Compliance			
4	Technical	• ACAS/TCAS System Failure	CWS did not alert as expected
• See and Avoid			
5	Contextual	• Poor Visibility Encounter	One or both aircraft were obscured from the other
6	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

2019218			
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 - Not Detected	
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
	• 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	• Monitoring of Other Aircraft	Late-sighting by one or both pilots

	2019220		
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	• No Decision/Plan	Inadequate planning
3	Human Factors	• Aircraft Navigation	Did not avoid/conform with the pattern of traffic already formed
4	Human Factors	• Communications by Flight Crew with ANS	Pilot did not communicate with appropriate service provider
	• Electronic Warning System Operation and Compliance		
5	Technical	• ACAS/TCAS System Failure	CWS did not alert as expected
	• See and Avoid		
6	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

	2019221		
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	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
	• Tactical Planning and Execution		
4	Organisational	• Flight Planning Information Sources	Inadequate planning material
5	Human Factors	• Action Performed Incorrectly	Incorrect or ineffective execution
6	Human Factors	• Accuracy of Communication	Ineffective communication of intentions
	• Situational Awareness of the Conflicting Aircraft and Action		
7	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
	• See and Avoid		
8	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

2019224			
CF	Factor	Description	Amplification
Flight Elements			
• Tactical Planning and Execution			
1	Human Factors	• Communications by Flight Crew with ANS	Apt ATS not requested by pilot
• 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	Non-sighting or effectively a non-sighting by one or both pilots

2019225			
CF	Factor	Description	Amplification
Flight Elements			
• Regulations, Processes, Procedures and Compliance			
1	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
• Situational Awareness of the Conflicting Aircraft and Action			
2	Human Factors	• Lack of Action	Pilot flew into conflict despite Situational Awareness
• See and Avoid			
3	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots
4	Human Factors	• Lack of Action	Pilot flew into conflict

2019226			
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	Contextual	• Situational Awareness and Sensory Events	Not required to monitor the aircraft under the agreed service
• Electronic Warning System Operation and Compliance			
3		• Any other event	STCA filtering
Flight Elements			
• Situational Awareness of the Conflicting Aircraft and Action			
4	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• See and Avoid			
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

2019227			
CF	Factor	Description	Amplification
Ground Elements			
• Situational Awareness and Action			
1	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect 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	Generic, late, no or incorrect Situational Awareness
• See and Avoid			
4	Human Factors	• Monitoring of Other Aircraft	Sighting report

2019228			
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	Apt 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

2019229			
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
• Situational Awareness of the Conflicting Aircraft and Action			
3	Human Factors	• Understanding/Comprehension	Pilot did not assimilate conflict information
4	Human Factors	• Lack of Action	Pilot flew close enough to cause concern despite Situational Awareness
• See and Avoid			
5	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots
6	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

2019230			
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	• No Decision/Plan	Inadequate planning
4	Human Factors	• Transponder Selection and Usage	
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	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• 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	• Monitoring of Other Aircraft	Late-sighting by one or both pilots

2019236			
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	• No Decision/Plan	Inadequate planning
3	Human Factors	• Aircraft Navigation	Flew through promulgated and active airspace or sporting site
4	Human Factors	• Communications by Flight Crew with ANS	Pilot did not communicate with appropriate service provider
• Situational Awareness of the Conflicting Aircraft and Action			
5	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• Electronic Warning System Operation and Compliance			
6	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
• See and Avoid			
7	Contextual	• Poor Visibility Encounter	One or both aircraft were obscured from the other
8	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

2019237			
CF	Factor	Description	Amplification
Flight Elements			
• Situational Awareness of the Conflicting Aircraft and Action			
1	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• See and Avoid			
2	Contextual	• Poor Visibility Encounter	One or both aircraft were obscured from the other
3	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots