

Assessment Summary Sheet for UKAB Meeting on Wednesday 12 February 2020

Total	A	B	C	D	E
21	2	2	12	0	5

Airprox	Aircraft 1 (Type)	Aircraft 2 (Type)	Airspace (Class)	ICAO Risk
2019231	DHC6 (Civ Comm)	PA28 (Civ FW)	Lands End ATZ (G)	E
2019233	Tutor (HQ Air Trg)	PA28 (Civ FW)	Woodvale ATZ (G)	C
2019238	Typhoon (A) (HQ Air Ops)	Typhoon (B) (HQ Air Ops)	London FIR (G)	C
	Recommendation: The MAA ensures that military operators fully understand the definition and application of the term 'MARSA'.			
2019241	Tutor (HQ Air Trg)	Sigma 10 paraglider (Civ Gld)	London FIR (G)	C
2019242	Chinook (HQ JHC)	Glider (Unknown)	London FIR (G)	C
2019243	Juno (HQ Air Trg)	PA28 (Civ FW)	London FIR (G)	C
2019245	P68 (Civ Comm)	C172 (Civ FW)	London FIR (G)	C
2019246	P68 (Civ Comm)	C172 (Civ FW)	Cambridge ATZ (G)	C
2019248	P68 (Civ Comm)	PA28 (Civ FW)	London FIR (G)	C
2019252	BE20 (Civ Comm)	AA5 (Civ FW)	London FIR (G)	E
2019253	C42 (Civ FW)	AW109 (Civ Helo)	London FIR (G)	A
2019254	PA25/PW-6 (Civ FW)	Light aircraft (Unknown)	London FIR (G)	B
2019255	C152 (Civ FW)	RV6 (Civ FW)	London FIR (G)	C
2019256	DR400 (Civ FW)	Enstrom 280 (Civ Helo)	Enstone ATZ (G)	A
2019257	DA42 (Civ FW)	C414 (Civ FW)	London FIR (G)	E
	Recommendation: Gloucester to consider applying for an SSR transponder conspicuity code.			
2019263	Ventus glider (Civ Gld)	Rockwell Commander 112 (Civ FW)	London FIR (G)	C
2019264	Cabri G2 (Civ Helo)	Decathlon (Civ FW)	Goodwood ATZ (G)	E
	Recommendation: Goodwood to review fixed-wing and rotary-wing circuit deconfliction.			
2019265	EC175 (Civ Comm)	A109 (Civ Helo)	Aberdeen CTR (D)	E
2019269	Merlin (RN)	Slingsby Firefly (Civ FW)	London FIR (G)	C
2019273	AW139 (Civ Helo)	Paramotor (Civ Para)	London FIR (G)	B
2019278	Juno (A) (HQ Air Trg)	Juno (B) (HQ Air Trg)	London FIR (G)	C

2019231			
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	• Traffic Management Information Provision	Not provided, inaccurate, inadequate, or late
Flight Elements			
• Tactical Planning and Execution			
3	Human Factors	• Accuracy of Communication	Ineffective communication of intentions
• 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	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

2019233			
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	
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	• Airspace Infringement	
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
• Electronic Warning System Operation and Compliance			
9	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
• See and Avoid			
10	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

2019238			
CF	Factor	Description	Amplification
Ground Elements			

	• Manning and Equipment		
1	Technical	• Aerodrome and ATM Equipment	Non-Functional equipment
	• Situational Awareness and Action		
2	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
	Flight Elements		
	• Tactical Planning and Execution		
3	Human Factors	• Insufficient Decision/Plan	Inadequate plan adaption
4	Human Factors	• Accuracy of Communication	Ineffective communication of intentions
	• Situational Awareness of the Conflicting Aircraft and Action		
5	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
6	Human Factors	• Understanding/Comprehension	Pilot did not assimilate conflict information
7	Human Factors	• Distraction - Job Related	Pilot was engaged in other tasks
	• See and Avoid		
8	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

	2019241		
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	• No Decision/Plan	Inadequate planning
	• 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	Contextual	• Near Airborne Collision with Aircraft, Balloon, Dirigible or Other Piloted Air Vehicle	A conflict in the FIR

	2019242		
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
	• Electronic Warning System Operation and Compliance		
2	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
	• See and Avoid		
3	Contextual	• Near Airborne Collision with Aircraft, Balloon, Dirigible or Other Piloted Air Vehicle	A conflict in the FIR

2019243			
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	• Traffic Management Information Provision	Not provided, inaccurate, inadequate, or late
Flight Elements			
• Tactical Planning and Execution			
3	Organisational	• Flight Planning Information Sources	Inadequate planning material
• 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	Contextual	• Poor Visibility Encounter	One or both aircraft were obscured from the other
6	Contextual	• Near Airborne Collision with Aircraft, Balloon, Dirigible or Other Piloted Air Vehicle	A conflict in the FIR
7	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

2019245			
CF	Factor	Description	Amplification
Ground Elements			
• Manning and Equipment			
1		• Any other event	Controller not APS qualified
• Situational Awareness and Action			
2	Contextual	• Situational Awareness and Sensory Events	Not required to monitor the aircraft under the agreed service
3	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
Flight Elements			
• Tactical Planning and Execution			
4	Human Factors	• Communications by Flight Crew with ANS	Controller not able to provide requested ATS
5	Human Factors	• Communications by Flight Crew with ANS	Pilot did not communicate with appropriate service provider
• 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	• Lack of Action	Pilot flew into conflict

2019246			
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 Resolution- Inadequate	
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	Did not follow instructions
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	• Monitoring of Other Aircraft	Pilot did not sufficiently integrate with the other aircraft
	• 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
10	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

	2019248		
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	Contextual	• Near Airborne Collision with Aircraft, Balloon, Dirigible or Other Piloted Air Vehicle	A conflict in the FIR
5	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots

	2019252		
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 - Detected Late	
3	Human Factors	• Traffic Management Information Provision	Not provided, inaccurate, inadequate, or late
	Flight Elements		
	• Tactical Planning and Execution		
4	Human Factors	• Insufficient Decision/Plan	Inadequate plan adaption
5	Human Factors	• Accuracy of Communication	Ineffective communication of intentions
	• Situational Awareness of the Conflicting Aircraft and Action		

6	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			
7	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
• See and Avoid			
8	Human Factors	• Monitoring of Other Aircraft	Sighting report

2019253			
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	• Action Performed Incorrectly	Incorrect or ineffective execution
4	Human Factors	• Aircraft Navigation	Did not avoid/conform with the pattern of traffic already formed
5	Human Factors	• Communications by Flight Crew with ANS	Appropriate ATS not requested by pilot
• 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	Non-sighting or effectively a non-sighting by one or both pilots

2019254			
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	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

2019255			
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	• Action Performed Incorrectly	Incorrect or ineffective execution
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	• Understanding/Comprehension	Pilot did not assimilate conflict information
• See and Avoid			
6	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

2019256			
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	• Action Performed Incorrectly	Incorrect or ineffective execution
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	• 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	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots

2019257			
CF	Factor	Description	Amplification
Flight Elements			
• See and Avoid			
1	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

2019263			
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

	• 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	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
	• See and Avoid		
6	Contextual	• Poor Visibility Encounter	One or both aircraft were obscured from the other
7	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots
8	Human Factors	• Lack of Individual Risk Perception	Pilot flew close enough to cause the other pilot concern

	2019264		
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		
	• 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	Non-sighting or effectively a non-sighting by one or both pilots

	2019265		
CF	Factor	Description	Amplification
	Flight Elements		
	• Electronic Warning System Operation and Compliance		
1	Contextual	• ACAS/TCAS RA	TCAS RA event
2	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
3	Technical	• ACAS/TCAS Nuisance Alarm	CWS alerted inaptly for VFR flight
	• See and Avoid		
4	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

	2019269		
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
• Electronic Warning System Operation and Compliance			
4	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
5	Technical	• ACAS/TCAS System Failure	CWS did not alert as expected
• See and Avoid			
6	Contextual	• Near Airborne Collision with Aircraft, Balloon, Dirigible or Other Piloted Air Vehicle	A conflict in the FIR
7	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

	2019273		
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			
• Tactical Planning and Execution			
3	Human Factors	• No Decision/Plan	Inadequate planning
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	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• See and Avoid			
6	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

	2019278		
CF	Factor	Description	Amplification
Ground Elements			
• Manning and Equipment			
1	Organisational	• Aerodrome and ATM Equipment	Inadequate or unavailable equipment
• Situational Awareness and Action			
2	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
3	Human Factors	• Conflict Detection - Not Detected	
4	Human Factors	• Inappropriate Clearance	Controller instructions contributed to the conflict
Flight Elements			
• Regulations, Processes, Procedures and Compliance			
5		• Any other event	Did not fully complete the low-level abort procedure
• Tactical Planning and Execution			
6	Human Factors	• Action Performed Incorrectly	Incorrect or ineffective execution
7	Human Factors	• Accuracy of Communication	Ineffective communication of intentions
• Situational Awareness of the Conflicting Aircraft and Action			

8	Human Factors	• Lack of Action	Pilot flew close enough to cause concern despite Situational Awareness
9	Human Factors	• Mentoring	Sub-Optimal
• Electronic Warning System Operation and Compliance			
10	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
• See and Avoid			
11	Human Factors	• Lack of Action	Pilot flew close enough to cause the other pilot concern