

### Assessment Summary Sheet for UKAB Meeting on Wednesday 18<sup>th</sup> March 2020

Total	A	B	C	D	E
18	2	3	10	0	3

Airprox	Aircraft 1 (Type)	Aircraft 2 (Type)	Airspace (Class)	ICAO Risk
2019212	PA28 (Civ FW)	Cavalon Autogyro (Civ Helo)	Halfpenny Green ATZ	B
2019268	B787 (CAT)	R44 (Civ Helo)	London CTR (D)	C
2019271	SF25 (Civ FW)	AS355 (Civ Helo)	London FIR (G)	C
2019274	B737 (CAT)	DR1050 (Civ FW)	Doncaster CTR (D)	C
2019279	Super Emeraude (Civ FW)	PA28 (Civ FW)	Gloucestershire ATZ (G)	C
2019280	Slingsby Firefly (Civ FW)	SR22 (Civ Comm)	London FIR (G)	C
2019281	PA28 (Civ FW)	Aviat Husky (Civ FW)	London FIR (G)	C
2019282	HpH 304 Shark S (Civ Gld)	DA62 (Civ FW)	London FIR (G)	A
	Recommendation: Kent Gliding Club and Lydd Airport establish a Letter of Agreement to address the risk of concurrent activities in the same volume of airspace.			
2019283	EV97 (Civ FW)	PA28 (Civ FW)	London FIR (G)	A
2019284	Chipmunk (Civ FW)	Tecnam Sierra (Civ FW)	Middle Wallop ATZ (G)	C
2019285	Do328 (CAT)	Spitfire (Civ FW)	London FIR (G)	C
2019287	PA28 (Civ FW)	Jet Provost (Civ FW)	Nottingham ATZ (G)	C
	Recommendation: Nottingham/Tollerton airfield to consider publishing procedures for the integration of faster jet aircraft with other circuit traffic.			
2019290	C152 (Civ FW)	C182 (Civ FW)	London FIR (G)	C
2019291	Falcon 900 (Civ Comm)	LS8 (Civ Gld)	London FIR (G)	B
2019293	C560 (Civ Comm)	Light Aircraft (Civ FW)	London FIR (G)	E
2019294	PA25/DG 505 (Civ Gld)	PA34 (Civ FW)	London FIR (G)	E
	Recommendation: The BGA reiterate guidance to gliding clubs regarding the significant mitigation to mid-air collision afforded by fitment of SSR transponders to tug aircraft.			
2019296	S92 (Civ Comm)	Typhoon (HQ Air Ops)	Scottish FIR (G)	E
2019297	MD500 (Civ Comm)	Prefect (HQ Air Trg)	London FIR (G)	B

2019212			
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
<b>Flight Elements</b>			
<b>• Regulations, Processes, Procedures and Compliance</b>			
3	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
<b>• Tactical Planning and Execution</b>			
4	Human Factors	• Insufficient Decision/Plan	Inadequate plan adaption
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
<b>• Situational Awareness of the Conflicting Aircraft and Action</b>			
7	Human Factors	• Understanding/Comprehension	Pilot did not assimilate conflict information
8	Human Factors	• Monitoring of Other Aircraft	Pilot did not sufficiently integrate with the other aircraft
<b>• See and Avoid</b>			
9	Contextual	• Poor Visibility Encounter	One or both aircraft were obscured from the other
10	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

<b>2019268</b>			
CF	<b>Factor</b>	<b>Description</b>	<b>Amplification</b>
<b>Ground Elements</b>			
<b>• Regulations, Processes, Procedures and Compliance</b>			
1	Human Factors	• ATM Regulatory Deviation	Regulations and/or procedures not complied with
<b>• Situational Awareness and Action</b>			
2	Human Factors	• ATM Personnel Hear back	Incorrect readback not detected/corrected
3	Human Factors	• Personnel Perception Events	Concerned by the proximity of the aircraft
<b>Flight Elements</b>			
<b>• Regulations, Processes, Procedures and Compliance</b>			
4	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
<b>• Tactical Planning and Execution</b>			
5	Human Factors	• Action Performed Incorrectly	Incorrect or ineffective execution
6	Human Factors	• Action Performed Incorrectly	Did not follow instructions
<b>• Situational Awareness of the Conflicting Aircraft and Action</b>			
7	Human Factors	• Monitoring of Other Aircraft	Pilot did not sufficiently integrate with the other aircraft
<b>• See and Avoid</b>			
8	Human Factors	• Perception of Visual Information	Pilot perceived there was no conflict
9	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

<b>2019271</b>			
CF	<b>Factor</b>	<b>Description</b>	<b>Amplification</b>
<b>Ground Elements</b>			
<b>• Situational Awareness and Action</b>			

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
<b>Flight Elements</b>			
<b>• Tactical Planning and Execution</b>			
3	Human Factors	• No Decision/Plan	Inadequate planning
<b>• Situational Awareness of the Conflicting Aircraft and Action</b>			
4	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
<b>• Electronic Warning System Operation and Compliance</b>			
5	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
<b>• See and Avoid</b>			
6	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots
7	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

<b>2019274</b>			
<b>CF</b>	<b>Factor</b>	<b>Description</b>	<b>Amplification</b>
<b>Flight Elements</b>			
<b>• Regulations, Processes, Procedures and Compliance</b>			
1	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
<b>• Tactical Planning and Execution</b>			
2	Human Factors	• No Decision/Plan	Inadequate planning
3	Human Factors	• Insufficient Decision/Plan	Inadequate plan adaption
4	Human Factors	• Airspace Infringement	
<b>• Electronic Warning System Operation and Compliance</b>			
5	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
<b>• See and Avoid</b>			
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

<b>2019279</b>			
<b>CF</b>	<b>Factor</b>	<b>Description</b>	<b>Amplification</b>
<b>Ground Elements</b>			
<b>• Situational Awareness and Action</b>			
1	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
2	Human Factors	• Conflict Detection - Not Detected	
<b>Flight Elements</b>			
<b>• Regulations, Processes, Procedures and Compliance</b>			
3	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
<b>• Tactical Planning and Execution</b>			
4	Human Factors	• Action Performed Incorrectly	Incorrect or ineffective execution
5	Human Factors	• Action Performed Incorrectly	Did not follow instructions

6	Human Factors	• Aircraft Navigation	Did not avoid/conform with the pattern of traffic already formed
<b>• Situational Awareness of the Conflicting Aircraft and Action</b>			
7	Human Factors	• Lack of Action	Pilot flew close enough to cause concern despite Situational Awareness
<b>• See and Avoid</b>			
8	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

<b>2019280</b>			
CF	<b>Factor</b>	<b>Description</b>	<b>Amplification</b>
<b>Ground Elements</b>			
<b>• Situational Awareness and Action</b>			
1	Contextual	• Situational Awareness and Sensory Events	Not required to monitor the aircraft under the agreed service
<b>• Electronic Warning System Operation and Compliance</b>			
2		• Any other event	STCA alerted but was not used
<b>Flight Elements</b>			
<b>• Tactical Planning and Execution</b>			
3	Human Factors	• Communications by Flight Crew with ANS	Apt ATS not requested by pilot
<b>• Situational Awareness of the Conflicting Aircraft and Action</b>			
4	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
<b>• See and Avoid</b>			
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

<b>2019281</b>			
CF	<b>Factor</b>	<b>Description</b>	<b>Amplification</b>
<b>Flight Elements</b>			
<b>• Regulations, Processes, Procedures and Compliance</b>			
1	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
<b>• Tactical Planning and Execution</b>			
2	Human Factors	• Insufficient Decision/Plan	Inadequate plan adaption
3	Human Factors	• Aircraft Navigation	Did not avoid/conform with the pattern of traffic already formed
<b>• Situational Awareness of the Conflicting Aircraft and Action</b>			
4	Human Factors	• Lack of Action	Pilot flew into conflict despite Situational Awareness
<b>• See and Avoid</b>			
5	Human Factors	• Perception of Visual Information	Pilot perceived there was no conflict
6	Human Factors	• Lack of Action	Pilot flew into conflict

<b>2019282</b>			
CF	<b>Factor</b>	<b>Description</b>	<b>Amplification</b>
<b>Ground Elements</b>			

	<b>• Regulations, Processes, Procedures and Compliance</b>		
1	Organisational	• Organisational Documentation and Publications	Inadequate regulations or procedures
	<b>• Situational Awareness and Action</b>		
2	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
3	Human Factors	• Conflict Detection - Not Detected	
	<b>Flight Elements</b>		
	<b>• Regulations, Processes, Procedures and Compliance</b>		
4	Organisational	• Flight Operations Documentation and Publications	Inadequate regulations or procedures
	<b>• Situational Awareness of the Conflicting Aircraft and Action</b>		
5	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
	<b>• Electronic Warning System Operation and Compliance</b>		
6	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
	<b>• See and Avoid</b>		
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

	<b>2019283</b>		
CF	<b>Factor</b>	<b>Description</b>	<b>Amplification</b>
	<b>Flight Elements</b>		
	<b>• Situational Awareness of the Conflicting Aircraft and Action</b>		
1	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
	<b>• See and Avoid</b>		
2	Contextual	• Poor Visibility Encounter	One or both aircraft were obscured from the other
3	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots

	<b>2019284</b>		
CF	<b>Factor</b>	<b>Description</b>	<b>Amplification</b>
	<b>Ground Elements</b>		
	<b>• Regulations, Processes, Procedures and Compliance</b>		
1	Organisational	• Organisational Documentation and Publications	Inadequate regulations or procedures
	<b>• Manning and Equipment</b>		
2	Technical	• Aerodrome and ATM Equipment	Non-Functional equipment
	<b>• Situational Awareness and Action</b>		
3	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
4	Human Factors	• Conflict Detection - Detected Late	
5	Human Factors	• Conflict Resolution - Provided Late	
6	Human Factors	• Callsign Confusion	
7	Human Factors	• Personnel Perception Events	Concerned by the proximity of the aircraft
	<b>Flight Elements</b>		
	<b>• Regulations, Processes, Procedures and Compliance</b>		
8	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with

	<b>• Tactical Planning and Execution</b>		
9	Human Factors	• Insufficient Decision/Plan	Inadequate plan adaption
10	Human Factors	• Action Performed Incorrectly	Incorrect or ineffective execution
11	Human Factors	• Aircraft Navigation	Did not avoid/conform with the pattern of traffic already formed
12	Human Factors	• Accuracy of Communication	Ineffective communication of intentions
	<b>• Situational Awareness of the Conflicting Aircraft and Action</b>		
13	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
	<b>• See and Avoid</b>		
14	Contextual	• Near Airborne Collision with Aircraft, Balloon, Dirigible or Other Piloted Air Vehicle	A conflict in the FIR

	<b>2019285</b>		
CF	<b>Factor</b>	<b>Description</b>	<b>Amplification</b>
	<b>Flight Elements</b>		
	<b>• Regulations, Processes, Procedures and Compliance</b>		
1	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
	<b>• Tactical Planning and Execution</b>		
2	Human Factors	• No Decision/Plan	Inadequate planning
3	Human Factors	• Transponder Selection and Usage	
4	Human Factors	• Communications by Flight Crew with ANS	Pilot did not communicate with appropriate service provider
	<b>• Electronic Warning System Operation and Compliance</b>		
5	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
	<b>• See and Avoid</b>		
6	Human Factors	• Lack of Individual Risk Perception	Pilot flew close enough to cause the other pilot concern

	<b>2019287</b>		
CF	<b>Factor</b>	<b>Description</b>	<b>Amplification</b>
	<b>Ground Elements</b>		
	<b>• Regulations, Processes, Procedures and Compliance</b>		
1	Organisational	• Organisational Documentation and Publications	Inadequate regulations or procedures
	<b>• Situational Awareness and Action</b>		
2	Contextual	• Situational Awareness and Sensory Events	Not required to monitor the aircraft under the agreed service
	<b>Flight Elements</b>		
	<b>• Regulations, Processes, Procedures and Compliance</b>		
3	Organisational	• Flight Operations Documentation and Publications	Inadequate regulations or procedures
	<b>• Tactical Planning and Execution</b>		
4	Human Factors	• No Decision/Plan	Inadequate planning
	<b>• Situational Awareness of the Conflicting Aircraft and Action</b>		
5	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness

6	Human Factors	• Monitoring of Other Aircraft	Pilot did not sufficiently integrate with the other aircraft
• See and Avoid			
7	Human Factors	• Lack of Individual Risk Perception	Pilot flew close enough to cause the other pilot concern

<b>2019290</b>			
CF	<b>Factor</b>	<b>Description</b>	<b>Amplification</b>
<b>Flight Elements</b>			
• 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

<b>2019291</b>			
CF	<b>Factor</b>	<b>Description</b>	<b>Amplification</b>
<b>Ground Elements</b>			
• 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	Generic, late, no or incorrect Situational Awareness
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	• Separation Provision	Not Achieved
6	Human Factors	• Distraction - Job Related	
7	Human Factors	• Monitoring of Equipment/Instruments	Equipment misinterpreted
• Electronic Warning System Operation and Compliance			
8	Human Factors	• Conflict Alert System Failure	Controller did not adequately act on the conflict alert
<b>Flight Elements</b>			
• Situational Awareness of the Conflicting Aircraft and Action			
9	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
• Electronic Warning System Operation and Compliance			
10	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
• See and Avoid			
11	Contextual	• Poor Visibility Encounter	One or both aircraft were obscured from the other
12	Human Factors	• Monitoring of Other Aircraft	Late-sighting by one or both pilots

<b>2019293</b>			
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CF	Factor	Description	Amplification
<b>Ground Elements</b>			
<b>• Situational Awareness and Action</b>			
1	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
2	Human Factors	• Conflict Detection - Not Detected	
<b>Flight Elements</b>			
<b>• Electronic Warning System Operation and Compliance</b>			
3	Contextual	• ACAS/TCAS RA	TCAS RA event
4	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
<b>• See and Avoid</b>			
5	Human Factors	• Perception of Visual Information	Pilot was concerned by the proximity of the other aircraft

2019294			
CF	Factor	Description	Amplification
<b>Ground Elements</b>			
<b>• Regulations, Processes, Procedures and Compliance</b>			
1	Human Factors	• ATM Regulatory Deviation	Regulations and/or procedures not complied with
<b>• Manning and Equipment</b>			
2	Human Factors	• Mentoring	Sub-Optimal
<b>• Situational Awareness and Action</b>			
3	Human Factors	• Conflict Detection - Not Detected	
4	Human Factors	• Traffic Management Information Provision	Not provided, inaccurate, inadequate, or late
5	Human Factors	• Monitoring of Equipment/Instruments	Equipment misinterpreted
<b>Flight Elements</b>			
<b>• Situational Awareness of the Conflicting Aircraft and Action</b>			
6	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
<b>• Electronic Warning System Operation and Compliance</b>			
7	Technical	• ACAS/TCAS System Failure	Incompatible CWS equipment
<b>• See and Avoid</b>			
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

2019296			
CF	Factor	Description	Amplification
<b>Ground Elements</b>			
<b>• Situational Awareness and Action</b>			
1	Human Factors	• Personnel Perception Events	Concerned by the proximity of the aircraft
<b>Flight Elements</b>			
<b>• Regulations, Processes, Procedures and Compliance</b>			
2	Human Factors	• Flight Crew ATM Procedure Deviation	Regulations/procedures not complied with
<b>• Tactical Planning and Execution</b>			
3	Organisational	• Flight Planning Information Sources	Inadequate planning material

4	Human Factors	• Accuracy of Communication	Ineffective communication of intentions
• <b>Electronic Warning System Operation and Compliance</b>			
5	Contextual	• ACAS/TCAS TA	TCAS TA / CWS indication
• <b>See and Avoid</b>			
6	Human Factors	• Monitoring of Other Aircraft	Sighting report

	<b>2019297</b>		
<b>CF</b>	<b>Factor</b>	<b>Description</b>	<b>Amplification</b>
<b>Ground Elements</b>			
• <b>Situational Awareness and Action</b>			
1	Contextual	• Situational Awareness and Sensory Events	Not required to monitor the aircraft under the agreed service
<b>Flight Elements</b>			
• <b>Tactical Planning and Execution</b>			
2		• Any other event	
3	Human Factors	• No Decision/Plan	Inadequate planning
4	Human Factors	• Aircraft Navigation	Flew through promulgated and active airspace or sporting site
• <b>Situational Awareness of the Conflicting Aircraft and Action</b>			
5	Contextual	• Situational Awareness and Sensory Events	Generic, late, no or incorrect Situational Awareness
6	Human Factors	• Mentoring	Sub-Optimal
• <b>Electronic Warning System Operation and Compliance</b>			
7	Human Factors	• Interpretation of Automation or Flight Deck Information	CWS alert expected but none reported
• <b>See and Avoid</b>			
8	Contextual	• Poor Visibility Encounter	One or both aircraft were obscured from the other
9	Human Factors	• Monitoring of Other Aircraft	Non-sighting or effectively a non-sighting by one or both pilots