

APPENDIX I: KSU FLIGHT TEST ENCOUNTER DATABASE

This appendix contains the spreadsheet with the parameters listed for the 340 encounters generated during the KSU flight tests.

1	Run ID	20	Intruder Projected Visual Area at Detection
2	Run Date	21	Distance b/n Intruder & UAS at Detection
3	Run Start Time	22	Ambient Light Level at Detection
4	Flightpath Track	23	Ambient Noise Level at Detection
5	Intruder Aircraft	24	Response Time for Detection
6	Ownship UAS	25	Response Time to Initiate Maneuver
7	VO Aviation Experience	26	Response Time to complete Maneuver
8	VO Right Eye Vision	27	Mitigated Encounter CPA: Time wrt Run Start Time
9	VO Left Eye Vision	28	Mitigated Encounter CPA: Slant Distance
10	VO Response: Suggested Maneuver	29	Mitigated Encounter CPA: Horizontal Miss Distance
11	VO Response: Rel. Altitude	30	Mitigated Encounter CPA: Vertical Miss Distance
12	VO Response: Specific Altitude	31	Mitigated Encounter WC Violation
13	VO Response: Direction	32	Mitigated Encounter NMAC Violation
14	VO Response: Rel. Path	33	Unmitigated Encounter CPA: Time wrt Run Start Time
15	Intruder Detection Distance	34	Unmitigated Encounter CPA: Slant Distance
16	Intruder Altitude at Detection	35	Unmitigated Encounter CPA: Horizontal Miss Distance
17	Intruder Speed at Detection	36	Unmitigated Encounter CPA: Vertical Miss Distance
18	Intruder Heading at Detection	37	Unmitigated Encounter WC Violation
19	Intruder Visual Angle at Detection	38	Unmitigated Encounter NMAC Violation