v93rd FS MISSION DATA CARD

Callsign:	STING 1	Date:	16 May 23	Mission #:	SAT 1	Type:	Training

Flight

#	POSITION	Pilot	CALL	GRP	OWN	IFF	TCN	INTRAFLIGHT	LASER
-1	*LEAD*	Stash	ST11	74/61	11	5311	29Y	41.50	1638
-2	*WING*	Nomad	ST12	74/61	12	5312	92Y	41.50	1648
-3	*EL LEAD*		ST13	74/61	13	5313	31Y	41.50	1658
-4	*EL WING*		ST14	74/61	14	5314	94Y	41.50	1668

Radios

Radio #	Freq / Preset
COMM1/UHF	*1 (SQ) – 2 (GND) – 3 (TWR) – 4 (DEP/ARV) –10 (BJ)*
I I I I I I I I	
COMM2/VHF	41.5

UHF Presets

1	*229.0 // v93d FS*	11	*361.6 // Fatness 63*
2	*275.8 // Nellis Ground*	12	*288.8 // Fatness 64*
3	*327.1 // Nellis Tower*	13	*295.5 // Texaco 2*
4	*385.4 // Nellis App/Dep*	14	*225.5 // Arco 2*
5	*317.525 // Sally Control*	15	*257.95 // Silverbow (TTR)*
6	*254.4 // Lee Control*	16	*354.3 // TTR DATIS*
7	*270.1 // Nellis DATIS*	17	*228.0*
8	*360.65 // Creech Tower*	18	*257.95*
9	*360.8 // Creech DATIS*	19	*354.3*
10	*377.8 // Blackjack*	20	*300.05*

Airfield Information

	Departure	Recovery	Alternate
Airfield	*Nellis*	*Nellis*	*Creech*
TACAN	*12x*	*12x*	*87x*
ILS	109.1	109.1	109.9
Tower	385.4	385.4	360.65
App/Dep	385.4	385.4	--
DATIS	270.1	270.1	360.8
Field Elev	1857	1857	3127

Weather

Bullseye

N 37°05.689'W 116°18.923'

TOLD				Fuel	
Gross Wt	34900	**Rotation**	165	**TO**	12000
Drag Index	50	**Refusal**	175	**TGT**	----
MIN AGL	500	**Departure**	FLEX 10 sec Interval	**Joker**	3500
MIN MSL	10000	**Rejoin**	Straight Ahead	**Bingo**	2500

Flight Plan

WPT	Name	Type	NAVAID/Coords/Offset	Alt	IAS
1	*PARKING*	*PARK*			
2	*FLEX*	*TRN*	N36°18.620W115°02.360	5000	350
3	*FYTTR*	*TRN*	N36°21.440W115°41.470	18000	350
4	*IP SR*	*IP*	N36°30.680W116°29.294	18000	350
5	*BEATTY AF*	*TRN*	N36°52.100W116°47.150	4000	350
6	*CACTUS*	*RP*	N36°56.405W116°43.340	300 AGL	350
7	*R77.03 SA-2*	*TGT*	N36°59.917W116°35.568	4304	350
8	*R77.03 SA-3*	*TGT*	N37°00.032W116°35.403	4350	350
9	*R77.03 SA-11*	*TGT*	N36°59.891W116°35.830	4331	350
10	*FLUSH*	*TRN*	N36°50.800W116°20.270	5000	350
11	*SHOWW*	*TRN*	N36°34.250W116°02.270	12000	350
12	*STRYK*	*IAF*	N36°25.620W115°30.700	15000	350
13	*GASS PEAK*	*TRN*	N36°24.140W115°10.660	9000	350
14	*APEX*	*FAF*	N36°17.706'W114°58.081'	4500	
15	*KLSV.21R*	*LDG*	N36°14.719'W115°01.323'		

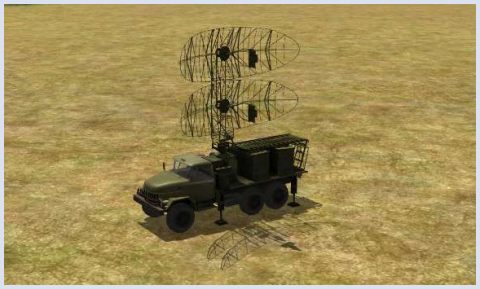
Target / Tasking

Primary	SA-2	**Secondary**	SA-3
DMPI		**DMPI**	
Coords		**Coords**	

Remarks/Threats/TOT:

MANPAD & AAA in Area

SA-2 Flat Face SR

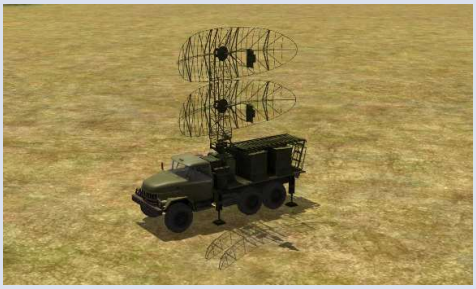


SA-2 Fan Song TR

Remarks/Threats/TOT:

MANPAD & AAA in Area

SA-3 Flat Face SR



SA-3 Low Blow TR

Package

Callsign	A/C	Time (Z)	Comms	DL	TCN	Task

Support Assets

Callsign	Role	Freq (Preset)	TCN	Location	Alt
ARCO 2-1	KC-135 TANKER	225.5 (15)	45X	AR231V	FL250
MAGIC	AWACS	256.6		ELGIN	FL390

v93rd FS MISSION DATA CARD CONTINUATION & DEFINITIONS

Flight Plan Continuation

WPT	Name	Type	NAVaid/Coords	Alt	IAS
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

Package Continuation

Callsign	A/C	Time (Z)	Comms	DL	TCN	Task

Support Assets Continuation

Callsign	Role	Freq (Preset)	TCN	Location	Alt

Additional Notes

Departure: *FLEX 03R*
Recovery: *OVERHEAD 21R*
Mission/Training Objectives

SAT SEAD/DEAD is the "bread and butter" of the v93 FS 'Makos'. The central focus of F-16 A/G SAT is to develop the skill, confidence, and proficiency to survive when threatened by surface-to-air threats. This lesson covers pre-mission planning, weapon delivery parameters, surface attack checks, low and medium altitude considerations, visual and non-visual bombing, range operations, and pop up patterns

- Air to air refueling (AAR)
- A/G Mission Planning
- IP > TGT Understanding
- CMDS Defense
- ECM Defense
- Datalink SA
- Weapon Checks
- Tactical Formation
- Popup Attacks
- AGM-65
- AGM-88
- LGB
- Ridge Crossings
- A/G COMMs & Brevity
- SEAD/DEAD Offense
- Wounded Shark Escort Procedures

Mission Type Definitions

AI – Air Interdiction
CAP – Combat Air Patrol
SEAD – Suppression & Destruction of Enemy Air Defenses
CAS – Close Air Support
DS - Deep Strike
FAC(A) – Forward Air Controller, Airb
TRNG – Training

Waypoint Type Definitions

CP – Contact Point
IAF – Initial Approach Fix
LDG – Landing
TGT – Target
FAF – Final Approach Fix
IP – Initial Point
PARK – Parking Location
TRN – Turn

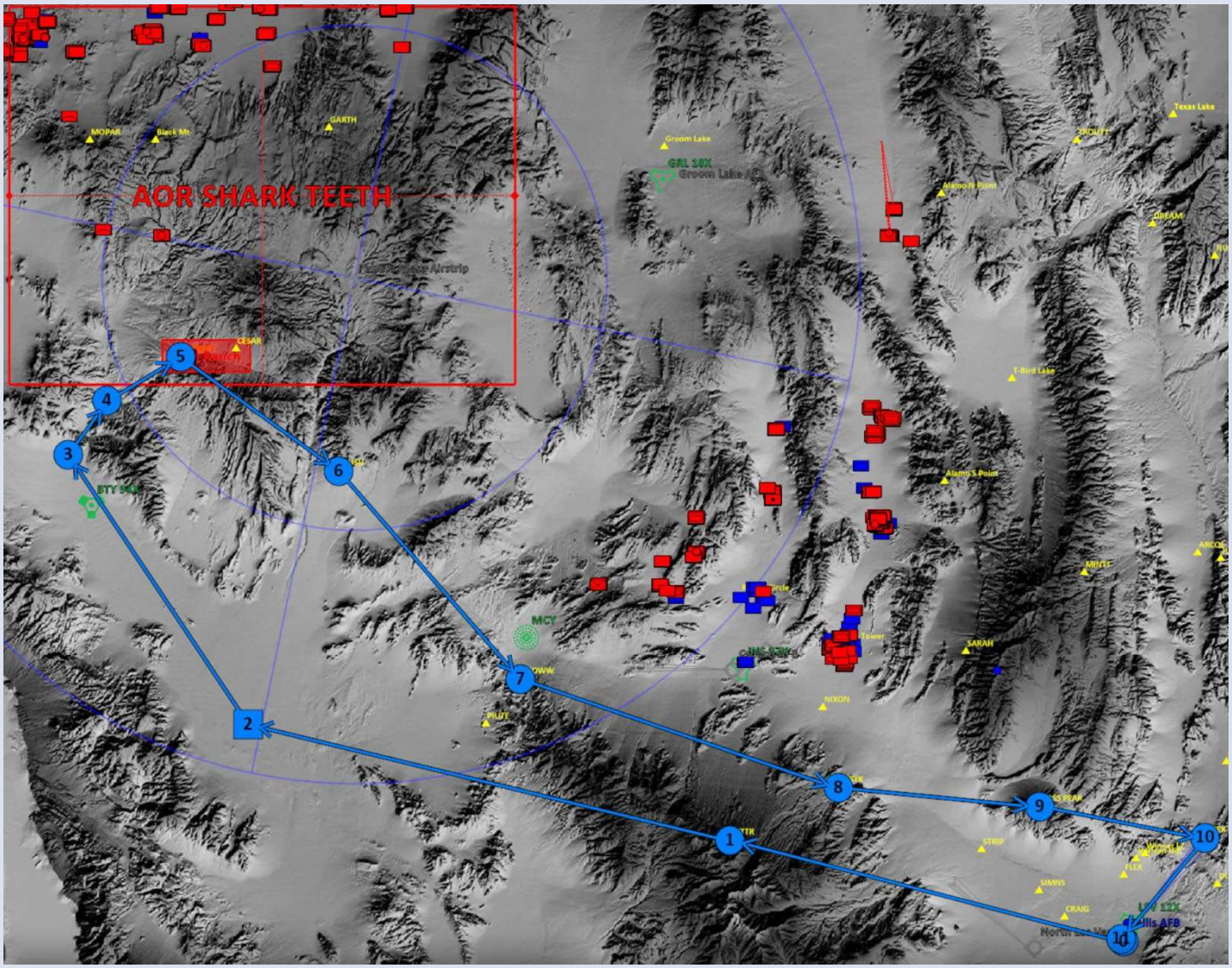
LOADOUT										
M61A1	HEI – T	511	**CHAFF**	60	**FLARE**	60	**HOF**			

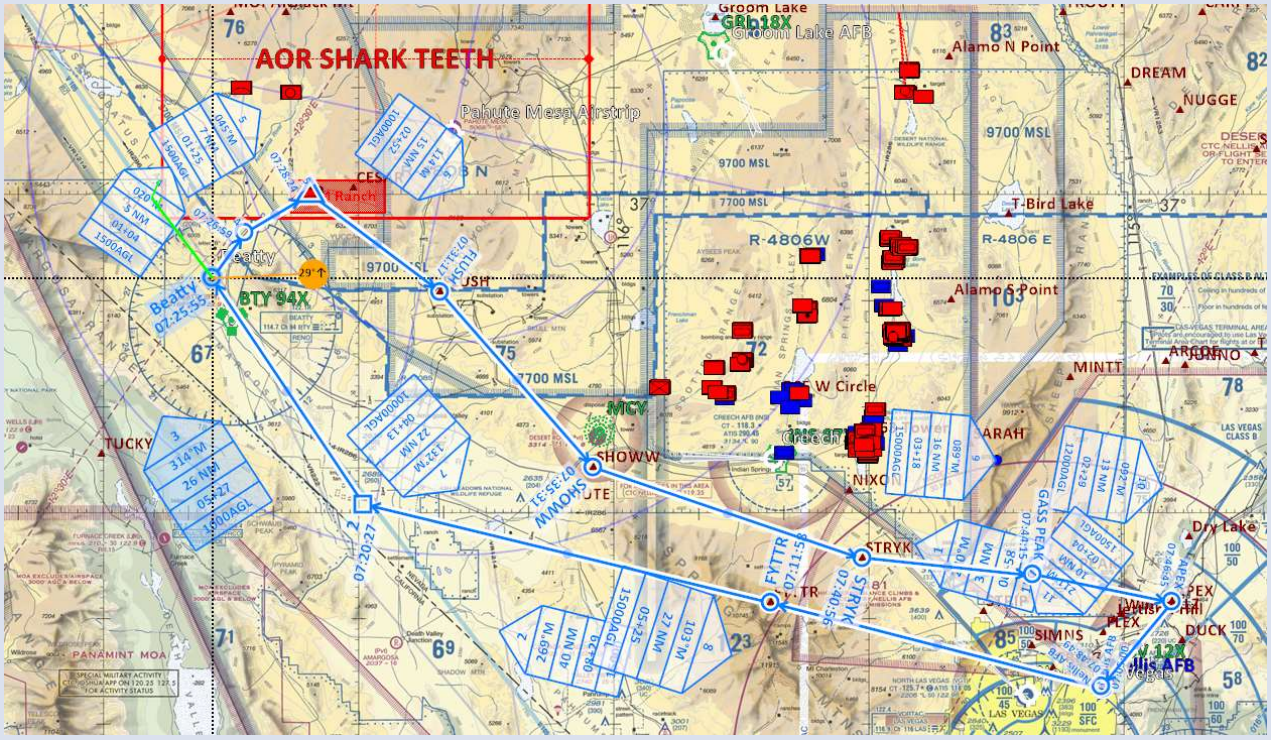
STA9	STA8	STA7A/7	STA6	STA5R	STA5	STA5L	STA4	STA3A/3	STA2	STA1
AIM120C	ACMI	1xAGM65D	1xCBU97	TGP	300EXT	HTS	1xCBU97	1xAGM65D	AIM9X	AIM120C

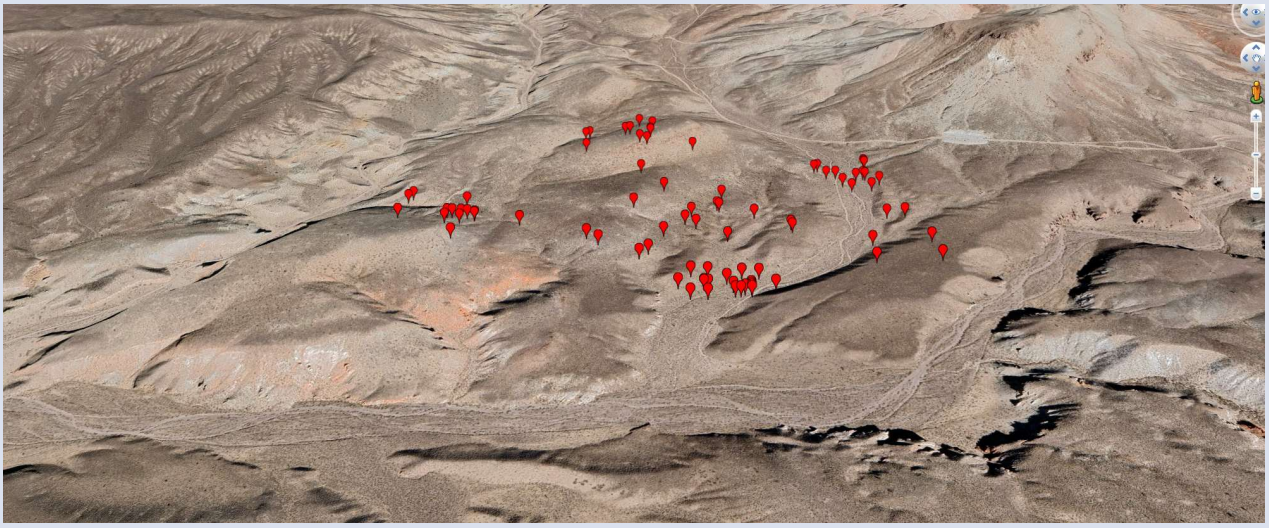
LOADOUT REMARKS

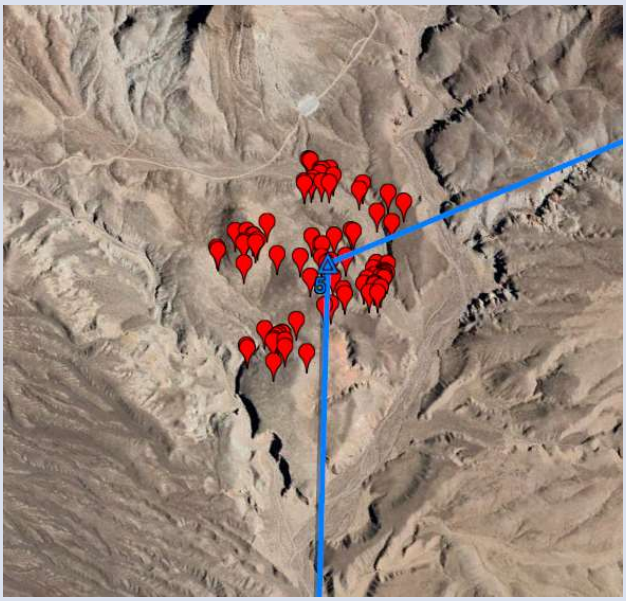
Turn 1: SA-2 AGM-65, CBU; SA-3 AGM-65, CBU
Turn 2: SA-11 AGM-88, GBU-12

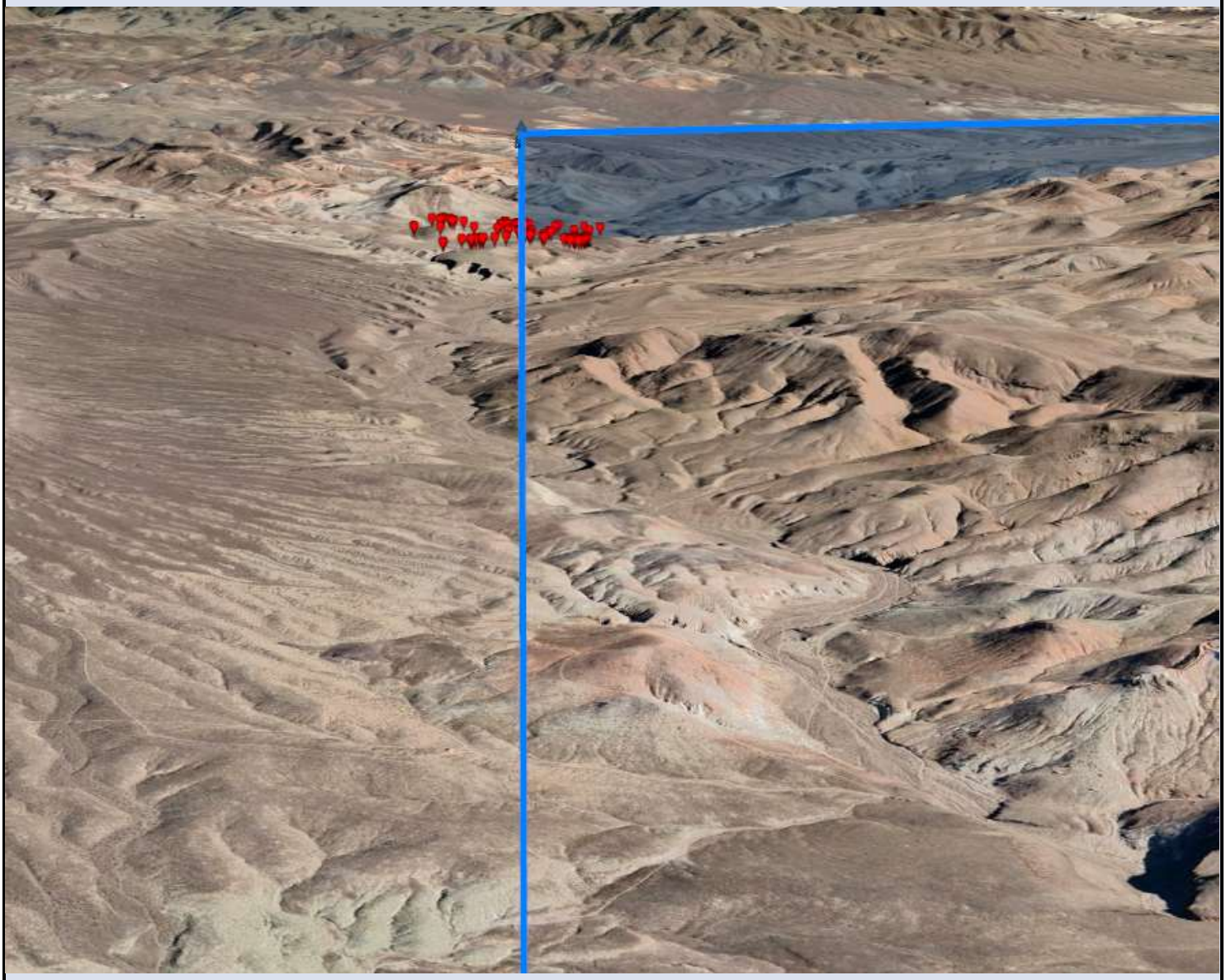
Notes / Images / SLEDs




AOR SHARK TEETH
Pahute Mesa Airstrip
Groom Lake
Groom Lake AFB
Alamo N Point
DREAM
NUGGE
9700 MSL
7700 MSL
T-Bird Lake
R-4806W
R-4806 E
Alamo S Point
MINTT
ARRDE
BTY 94X
JSH
MCV
SHOWW
W Circle
ARAH
NIXO
STRYK
FYTTR
GASS PEAK
TUCKY
PANAMINT MOA
Dry Lake
SIMMS
DUCK
PEX
LAS VEGAS







Event Cheat Sheet

INSTRUMENT DEPARTURE

- Review Departure Plate
- #2 hook #1, #3 hook #2, & #4 hook #3
- Maintain 350 KIAS @850 ITT, manage speed via pitch
- Report passing every 2,000 ft interval
- Report when making heading changes
- Maintain spacing on proceeding ACFT

LOST WINGMAN EXERCISE

- VMC only, Maintain Visual Separation
- Simultaneously:
-- Transition to instruments
-- Perform correct procedures
-- Inform Lead of situation

LEVEL FLIGHT:
-Turn away 15 deg bank for 15 sec
-Resume Original heading
INSIDE TURN:
-Reduce Pwr, get N-T Separation
-Have Lead Roll-Out
OUTSIDE TURN:
-Reverse turn 15 deg bank /15 sec

CONTRACTS

Straight Ahead Rejoin
- Lead maintain level flight @350 KIAS
- #2 Rejoin Echelon Left/Route, #3/4 on right (Finger-4)
- Wingman use 30 to 50 KIAS overtake
- Call Saddled when Stabilized

Turning Rejoin
- Lead maintain level flight @350 KIAS
- Rejoin on inside of turn
- Wingman use 20 to 30 KIAS overtake
- Call Saddled

Enroute
- Climb 350 KIAS / 10° Nose Up
- Initial Level Off 350 KIAS
- Cruise 350 KIAS
- Descent 350 KIAS / 5° Nose Down

CONVENTIONAL RANGE

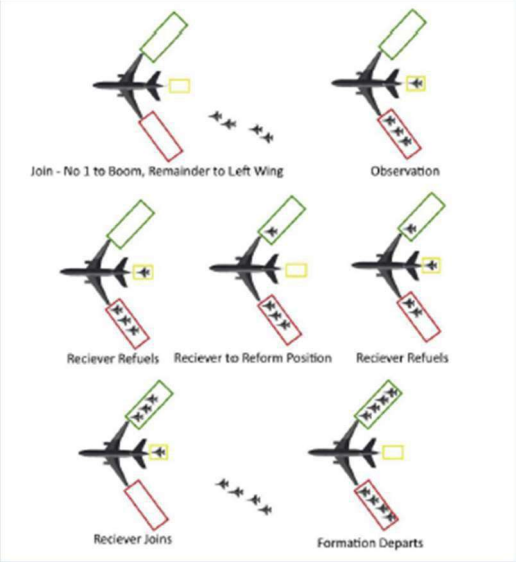
- Lead Check-in with control
- Lead breaks up flight
- Turn toward range tower when coming off target
- Basic Radio Calls
--Off, Downwind, Turning Base, Turning In

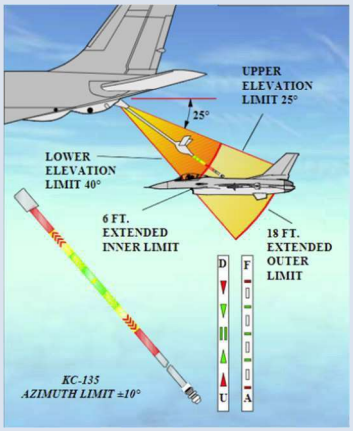
BATTLE DAMAGE CHECK (BDC)

(Lead initiated)

- Lead maintain 200 KIAS / Wingman rejoin @230 KIAS
- 2-Ship; Wingmen Echelon Left/Route check lead
- 4- Ship; Trail-route-trail
-- #2 checks lead, #4 checks #3
- Climb slightly to inspect top of near top/side
- Cross under to inspect lower side
- Climb slightly to inspect top/side of aircraft
- Notify lead (or #3) complete and identify issues
- Lead (and #3) accomplish above on #2 (or #4)

AERIAL REFUELING





STEERPOINT DATABASE

1 – 24 **Navigation Route / General Flight Planning**

25 **BULLSEYE**

26 – 30 **Ownship Markpoints**

31 – 54 **Reserved for HSD Lines**

56 – 70 **Reserved for Pre Planned Threats**

71 – 80 **Datalink Markpoints**

81 – 99 **OPEN**

F-E-N-C-E	
F	**Fire control systems Set**. Weapon systems checks. Gun armed. EO power on.
E	**Electronic warfare systems.** CMS set and programs configured. RWR volume set.
N	**Navigation.** EGI, map, and TACAN configured and ready. Wind direction/speed checked.
C	**Communications.** Correct frequencies set & radio checks completed.
E	**Emitters (reduce or select).** External lights OFF. TACAN set as required. EMCON state as appropriate for threat environment.

Instructor Notes