

# OPERATION RAPID EAGLE 11/20/11

**Flight:**

Pilot	Call Sign	Side #	Freq	Role	TOT	End Vul
Mother	Hellcat 1-1	50	260	Strike/CAS	16:00	16:40
Chief	Hellcat 1-2	51	260	Strike/CAS	16:00	16:40
Baz	Hellcat 1-3	10	260	Strike/CAS	16:00	16:40
Noble	Hellcat 1-4	01	260	Strike/CAS	16:00	16:40
Mike-Mike	Hellcat 1-5	53	260	Strike/CAS	16:00	16:40
Ein-Stein	Hellcat 1-6	05	260	Strike/CAS	16:00	16:40

**Loadout:**

7   6   5   4B   4A   3   2   1

Station 7	Mk-82	Station 4B	GAU-12	Station 3	FUEL
Station 6	2 x Mk-20	Ammo	SAPHEI-T	Station 2	2 x Mk-20
Station 5	FUEL	Station 4A		Station 1	Mk-82

Fuel	11,764 LB
Gross Weight	30,999 LB

**Countermeasure Bins:**

Top Front Left	30 Chaff
Top Front Right	30 Chaff
Top Rear Left	30 Flare
Top Rear Right	30 Flare
Bottom Left	30 Flare
Bottom Right	30 Flare

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## Weather:

Clouds	Wind	Temperature	Precipitation
Broken 14-17 Kft Scattered 25 Kft	270 @ 4Kn GL 124 @ 6Kn 6600 ft 225 @ 15Kn 26000 ft	19°C	N/A

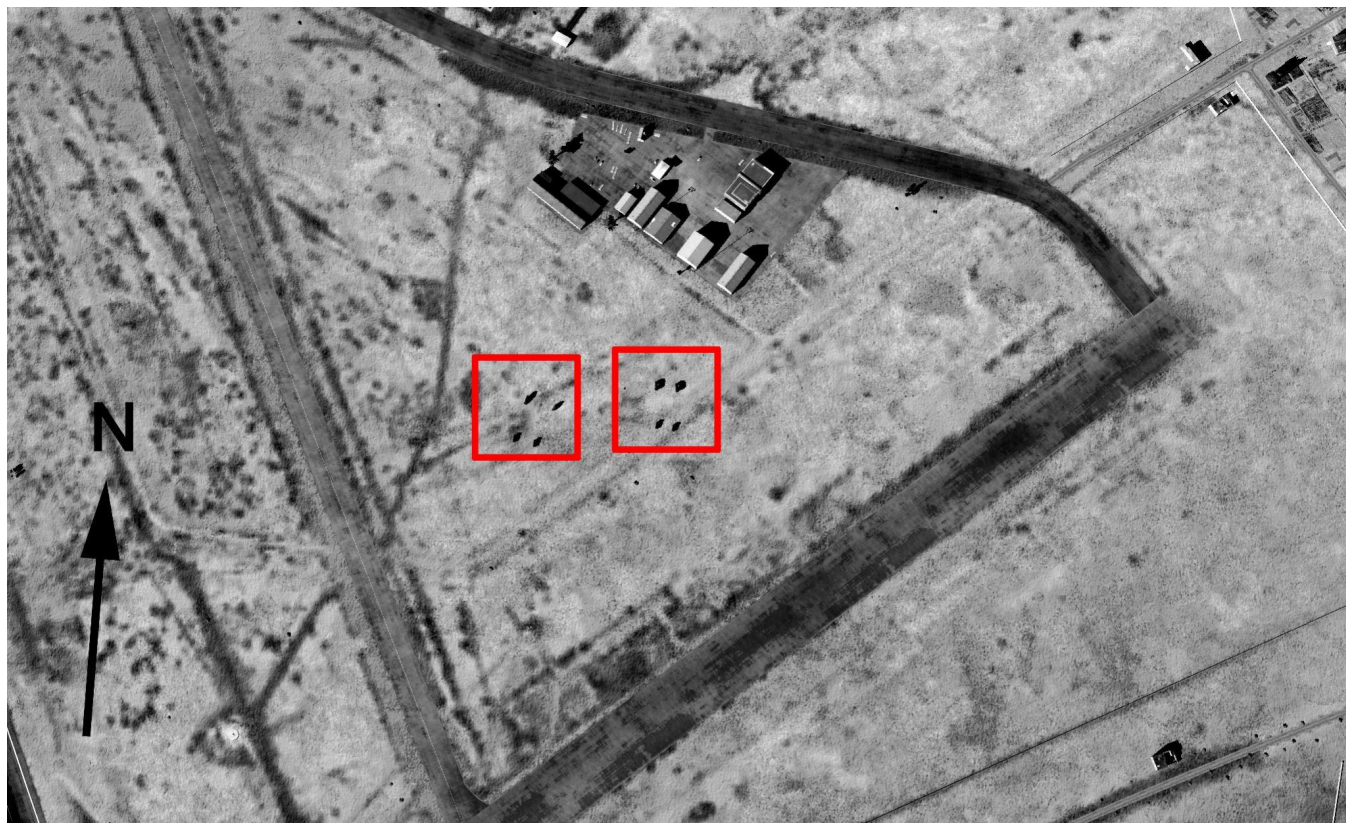
## Mission Support:

Call Sign	Type	Frequency	Role	Notes
Cobra 1	F-16	292.0	SEAD	
Reaper 3	F/A-18	316.8	CAP	
Wolf 4	F/A-18	297.2	FAC(A)	
Stalker 6	AC-130	141.8	CAS	
Reaper 4	F/A-18	322.4	Strike	

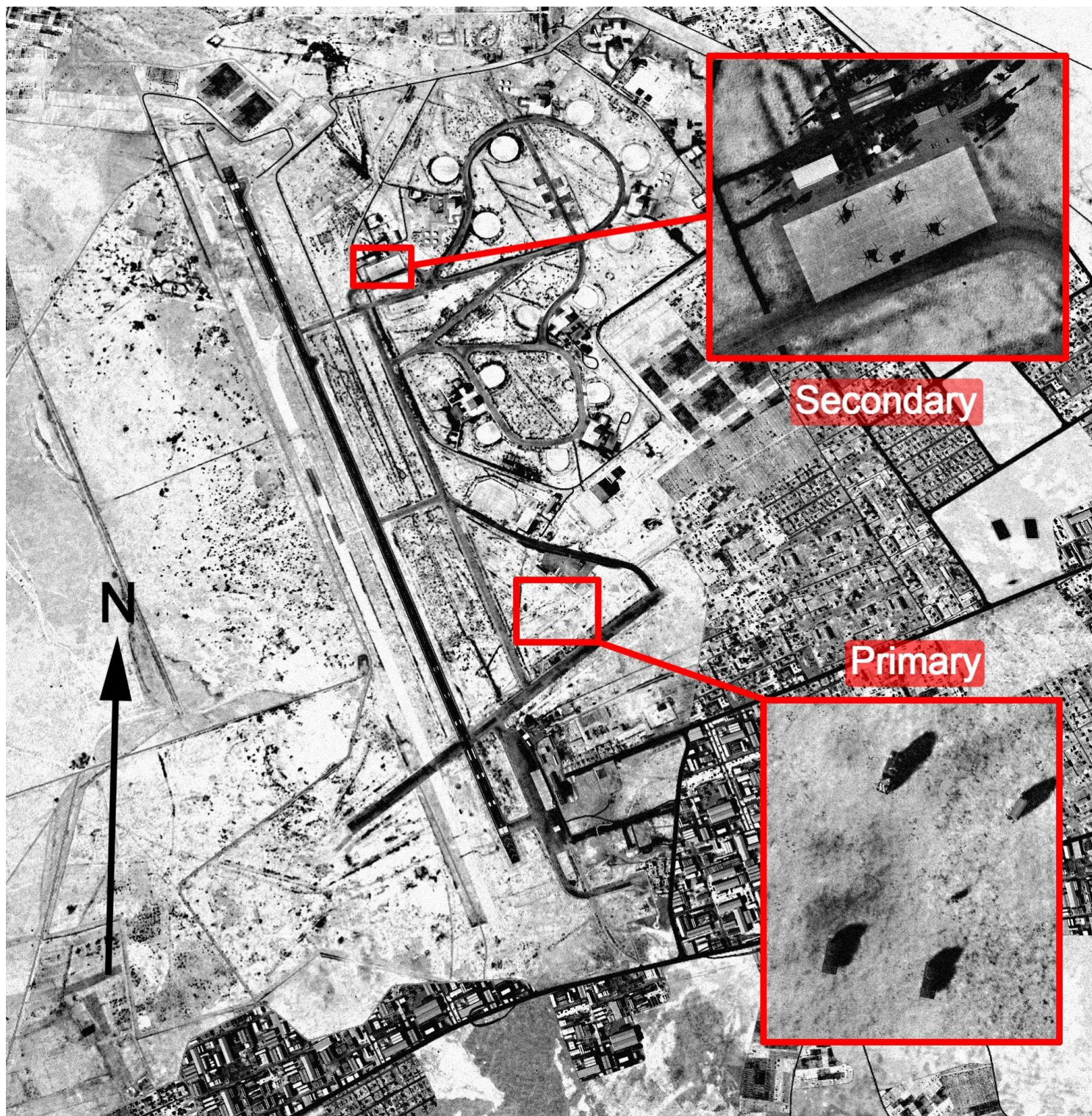
## Mission:

Primary target - 2S1 Gvozdika Battery.

Secondary target - 4 x MI-24 on ramp.

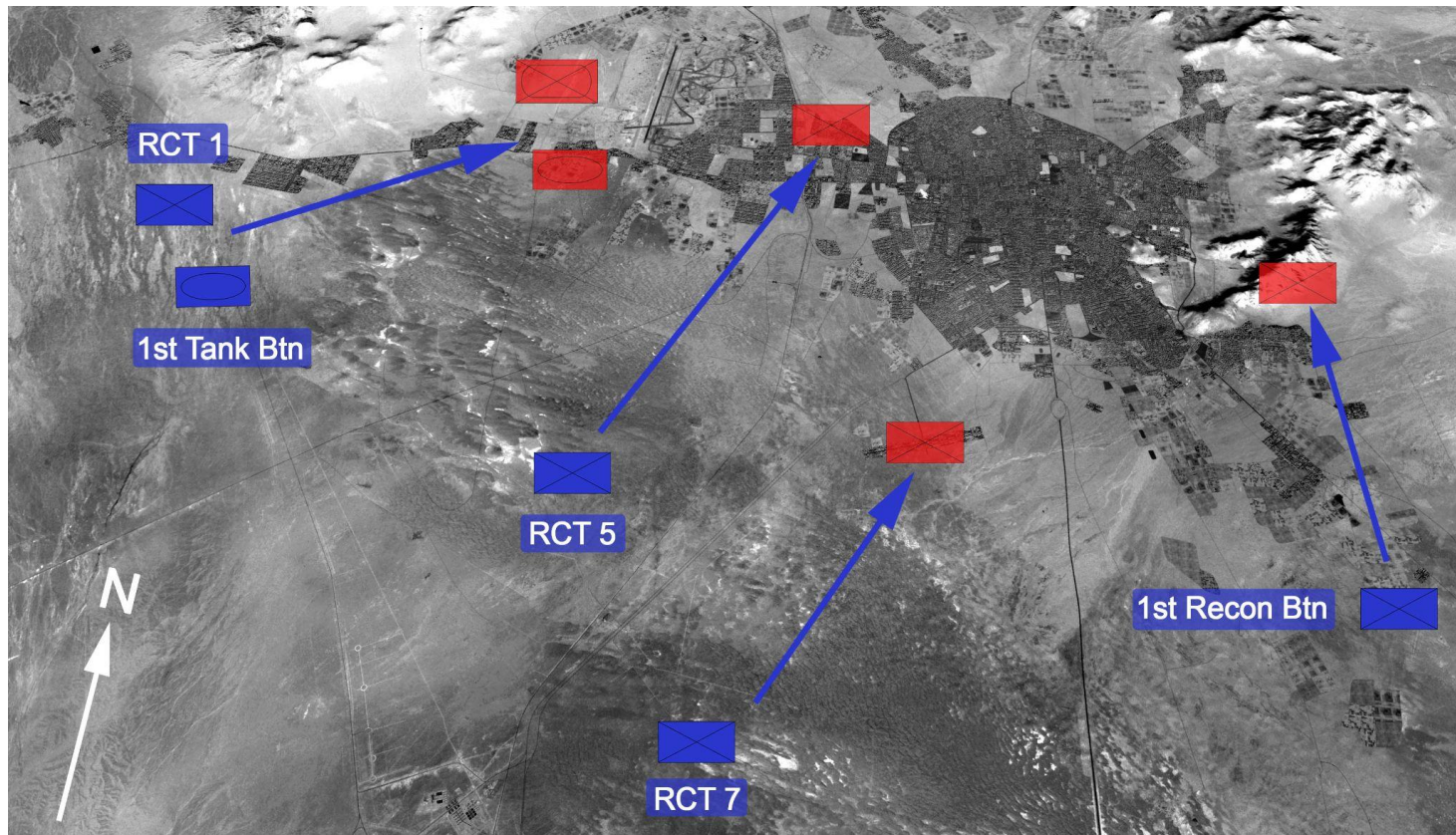
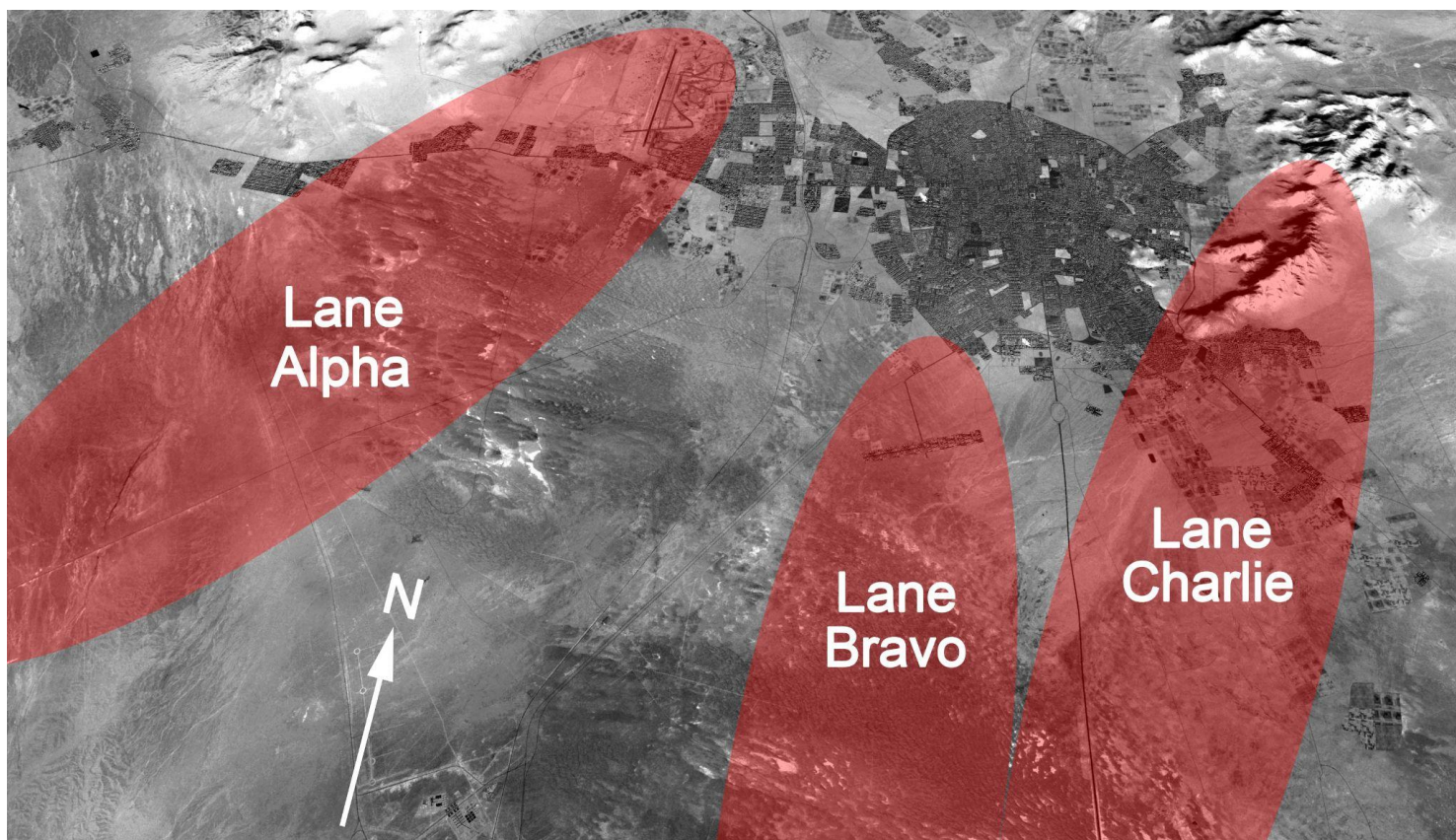






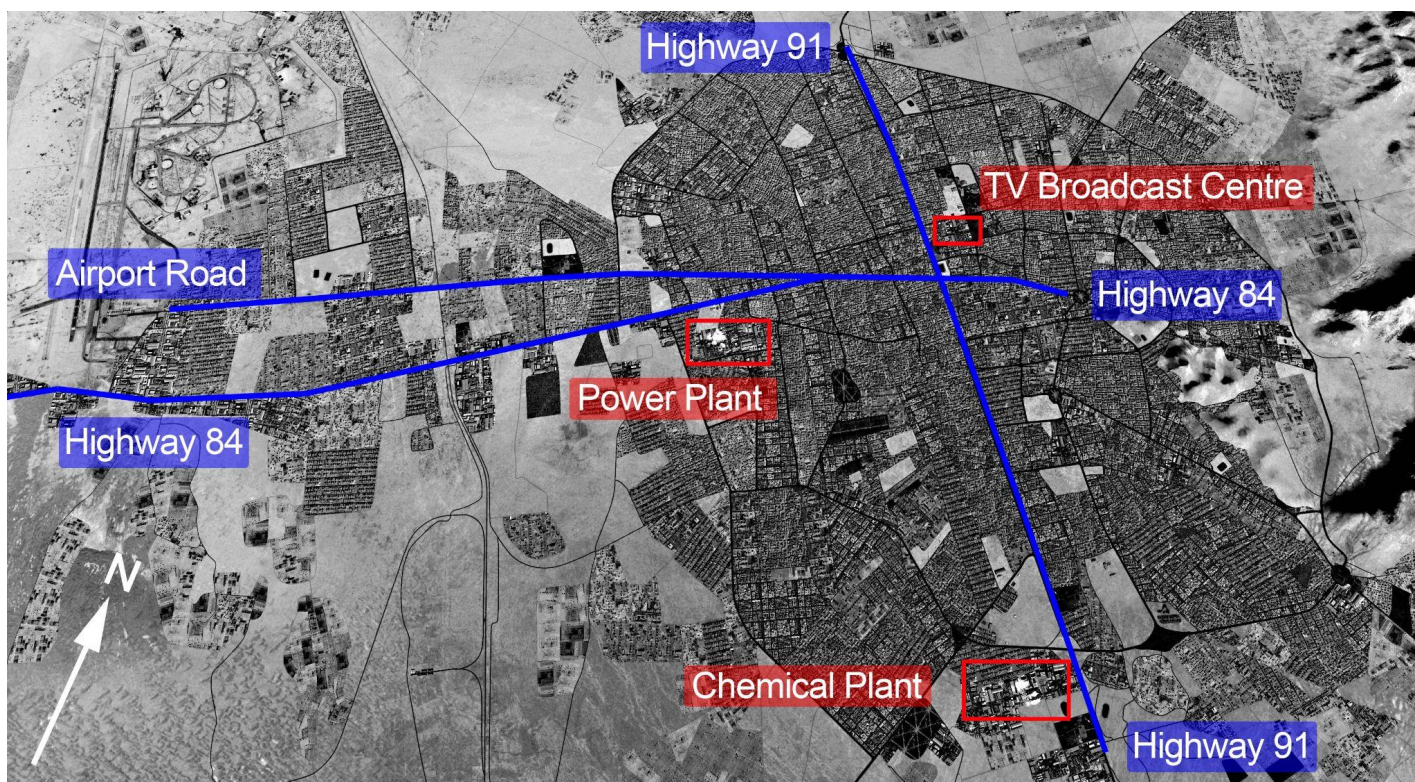


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**Flight Plan:**

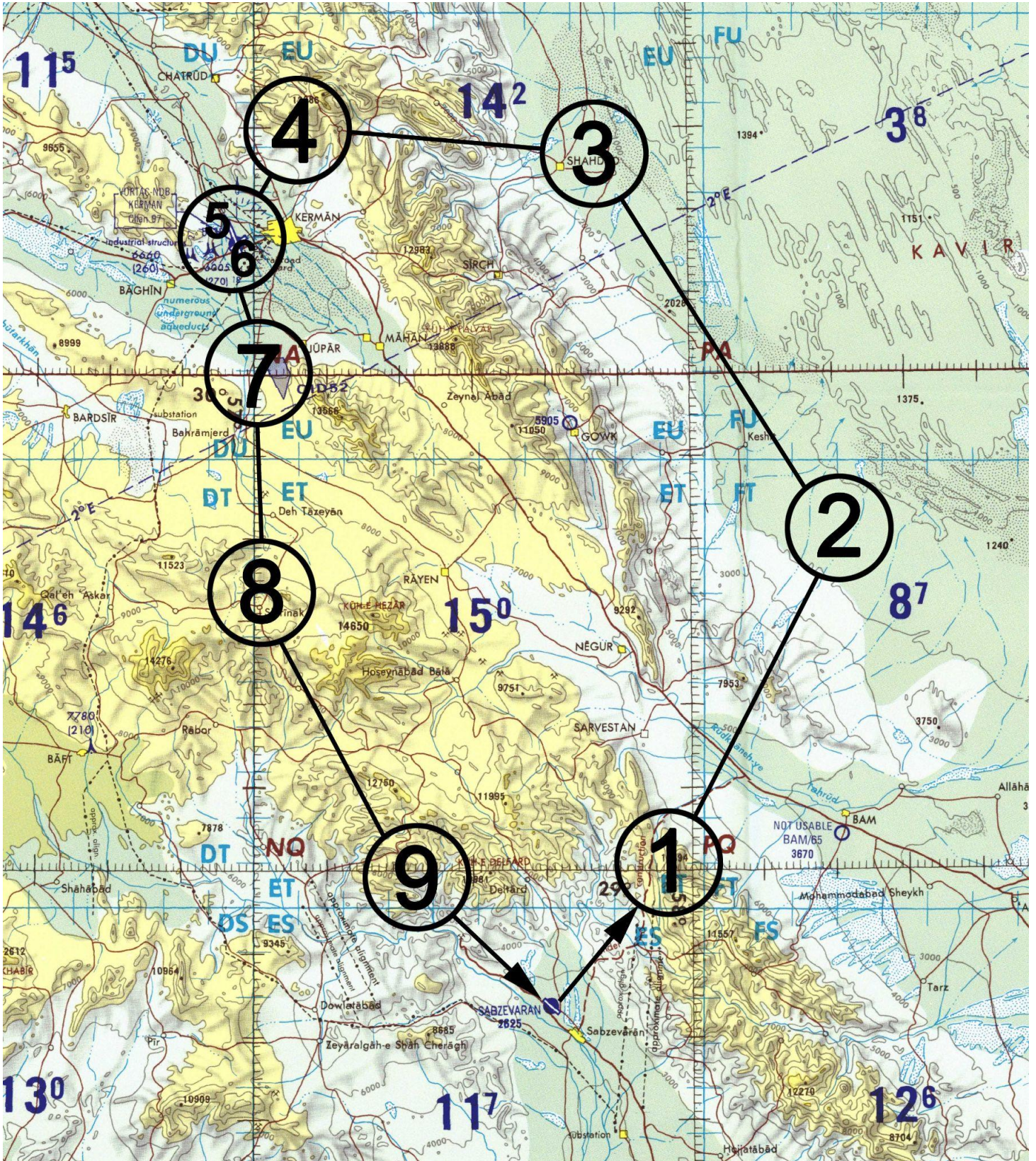
Waypoint	Alt (Ft MSL)	Mach	Notes
1	15	0.65	RV flight
2	15	0.65	
3	8.5	0.65	Terrain masking
4	20	0.7	IP
5	15	0.65	Primary TGT
6	15	0.65	Secondary TGT
7	20	0.6	CAS stack
8	20	0.7	Egress
9	20	0.7	
10			Land FOB Juliet
			<b>BULLS N29°30'55", E57°16 '24"</b>

**Fuel Plan:**

Stage	Notes	Target Fuel lb
STARTING FUEL		<b>11700</b>
WP1	15Kft @ M0.65	<b>10048</b>
WP2	15Kft @ M0.65	<b>9344</b>
WP3	8.5Kft @ M0.65	<b>8090</b>
WP4	20Kft @ M0.70	<b>7738</b>
<b>Bingo</b>		<b>2872</b>
WP8	20Kft @ M0.70	<b>2472</b>
WP9	20Kft @ M0.70	<b>1972</b>
WP10	LAND JULIET	<b>572</b>



# OPERATION RAPID EAGLE 11/20/11





**OPERATION RAPID EAGLE 11/20/11****Radio Plan:**

<b>Channel</b>	<b>Comm 1</b>	<b>Freq</b>	<b>Comm 2</b>	<b>Freq</b>
1	<i>Juliet Ground</i>	<i>141.0</i>	<i>Juliet Ground</i>	<i>141.0</i>
2	<i>Juliet Tower</i>	<i>141.5</i>	<i>Hellcat 1</i>	<i>260.0</i>
3	<i>Juliet Departure</i>	<i>142.25</i>	<i>Reaper 3</i>	<i>316.8</i>
4	<i>Juliet Arrival</i>	<i>142.6</i>	<i>Reaper 4</i>	<i>322.4</i>
5	<i>Juliet Emergency</i>	<i>143.1</i>	<i>Wolf 4-1</i>	<i>281.1</i>
6	<i>Chieftain</i>	<i>291.5</i>	<i>Wolf 4-2</i>	<i>297.2</i>
7	<i>Steel Rain</i>	<i>181.6</i>	<i>Cobra 1</i>	<i>292.0</i>
8	<i>Iceman</i>	<i>185.7</i>	<i>Sandman 1-1</i>	<i>241.2</i>
9	<i>Fixer</i>	<i>189.0</i>	<i>Sandman 1-3</i>	<i>241.8</i>
10	<i>Madman</i>	<i>193.2</i>	<i>Sandman 1-6</i>	<i>251.6</i>
11	<i>Stalker 6</i>	<i>141.8</i>	<i>Sandman 5-1</i>	<i>260.1</i>
12	<i>SPARE</i>	<i>--</i>	<i>Sandman 5-3</i>	<i>271.7</i>
13	<i>SPARE</i>	<i>--</i>	<i>Sandman 7-2</i>	<i>272.3</i>
14	<i>SPARE</i>	<i>--</i>	<i>Sandman 7-6</i>	<i>281.0</i>
15	<i>SPARE</i>	<i>--</i>	<i>Sandman 7-8</i>	<i>286.6</i>
16	<i>SPARE</i>	<i>--</i>	<i>Black</i>	<i>329.8</i>
17	<i>SPARE</i>	<i>--</i>	<i>White</i>	<i>266.8</i>
18	<i>SPARE</i>	<i>--</i>	<i>Red</i>	<i>312.0</i>
19	<i>SPARE</i>	<i>--</i>	<i>Orange</i>	<i>355.2</i>
20	<i>SPARE</i>	<i>--</i>	<i>Yellow</i>	<i>231.4</i>
21	<i>SPARE</i>	<i>--</i>	<i>Green</i>	<i>388.7</i>
22	<i>SPARE</i>	<i>--</i>	<i>Blue</i>	<i>251.5</i>
23	<i>SPARE</i>	<i>--</i>	<i>Indigo</i>	<i>363.4</i>
24	<i>SPARE</i>	<i>--</i>	<i>Violet</i>	<i>200.6</i>
25	<i>SPARE</i>	<i>--</i>	<i>Magenta</i>	<i>391.1</i>
26	<i>SPARE</i>	<i>--</i>	<i>Grey</i>	<i>241.3</i>



**Threats:**

<b>MIM-23 HAWK</b>	
<b>Guidance Type</b>	<b>Semi Active Radar Homing</b>
<b>Acquisition Range</b>	<b>49 nm</b>
<b>Max Engagement Range</b>	<b>25 nm</b>
<b>Max Ceiling</b>	<b>65,000 Ft MSL</b>
<b>Missile Mach</b>	<b>2.4</b>
<b>Warhead Type</b>	<b>119lb Frag HE</b>
<b>RWR Symbology</b>	<b>HA</b>
<b>Notable Features</b>	<p><b>US manufactured SAM system.</b></p> <p><b>Typical battery consists of Command Post, Search Radar, Track Radar and up to 6 launchers (3 missiles each). Some batteries may also contain a Continuous Wave Acquisition Radar, designed for low altitude detection.</b></p> <p><b>Missile burn time ~ 25 seconds.</b></p>

<b>SA-6 'GAINFUL'</b>	
<b>Guidance Type</b>	<b>Radar, command guidance, semi active radar homing</b>
<b>Acquisition Range</b>	<b>40 nm</b>
<b>Max Engagement Range</b>	<b>15 nm</b>
<b>Max Ceiling</b>	<b>40,000 Ft MSL</b>
<b>Missile Mach</b>	<b>2.8</b>
<b>Warhead Type</b>	<b>130lb Frag HE</b>
<b>Fuzing</b>	<b>Proximity/contact</b>
<b>RWR Symbology</b>	<b>6</b>
<b>Notable Features</b>	<p><b>Semi Active Radar Homing in terminal phase.</b></p> <p><b>Missile burn time ~ 21 seconds.</b></p> <p><b>Highly mobile, can be operational within 15 minutes of relocating.</b></p> <p><b>Typical configuration - 1 x Tracked 'Straight Flush' radar vehicle, 4 x tracked TEL's carrying 3 missile apiece.</b></p>



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<b>SA-8 'GECKO'</b>	
<b>Guidance Type</b>	<b>Radar, command guidance</b>
<b>Acquisition Range</b>	<b>15 nm</b>
<b>Max Engagement Range</b>	<b>6 nm</b>
<b>Max Ceiling</b>	<b>39,000 Ft MSL</b>
<b>Missile Mach</b>	<b>2.0</b>
<b>Warhead Type</b>	<b>35lb Frag HE</b>
<b>Fuzing</b>	<b>Proximity/contact</b>
<b>RWR Symbology</b>	<b>8</b>
<b>Notable Features</b>	<b>Amphibious &amp; highly mobile.</b> <b>Missile burn time ~ 15 seconds.</b> <b>6 missile load.</b>

<b>SA-15 'GAUNTLET'</b>	
<b>Guidance Type</b>	<b>Radar Command Guidance</b>
<b>Acquisition Range</b>	<b>15 nm</b>
<b>Max Engagement Range</b>	<b>8 nm</b>
<b>Max Ceiling</b>	<b>25,000 Ft MSL</b>
<b>Missile Mach</b>	<b>2.5</b>
<b>Warhead Type</b>	<b>30lb Frag HE</b>
<b>Fuzing</b>	<b>RF Proximity</b>
<b>RWR Symbology</b>	<b>15</b>
<b>Notable Features</b>	<b>Tracked TLAR highly mobile, carries 8 missiles ready to fire.</b> <b>Missile burn time ~ 7 seconds.</b>



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<b>SA-18 'GROUSE'</b>	
<b>Guidance Type</b>	<b>Infra-Red</b>
<b>Acquisition Range</b>	<b>Visual</b>
<b>Max Engagement Range</b>	<b>3 nm</b>
<b>Max Ceiling</b>	<b>12,000 Ft MSL</b>
<b>Missile Mach</b>	<b>1.9</b>
<b>Warhead Type</b>	<b>2.6lb Frag HE</b>
<b>Fuzing</b>	<b>Contact / Grazing</b>
<b>Notable Features</b>	<b>Man Portable Air Defence (MANPAD), highly mobile and easy to hide.</b> <b>May operate in teams of shooter/spotter, communicating over distance to ambush targets.</b>

<b>ZU-23 AAA</b>	
<b>Guidance Type</b>	<b>None</b>
<b>Acquisition Range</b>	<b>Visual</b>
<b>Max Engagement Range</b>	<b>1.5 nm</b>
<b>Max Ceiling</b>	<b>7,000 Ft MSL</b>
<b>Notable Features</b>	<b>Twin 23mm autocannon.</b> <b>Towed system, easy to relocate. Cheap and widely proliferated. Can be truck mounted for a highly mobile, low cost air defence platform.</b> <b>Fires HE rounds that explode on contact or at set altitude.</b>



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<b>S-60 AAA</b>	
<b>Guidance Type</b>	<b>None</b>
<b>Acquisition Range</b>	<b>Visual</b>
<b>Max Engagement Range</b>	<b>3 nm</b>
<b>Max Ceiling</b>	<b>20,000 Ft MSL</b>
<b>Notable Features</b>	<b>Single 57mm autocannon. Capable of firing over 70 rounds per minute.</b> <b>Towed system, easy to relocate. Cheap and widely proliferated.</b> <b>Fires HE rounds that explode on contact or at set altitude.</b>

<b>ZSU-23-4 AAA</b>	
<b>Guidance Type</b>	<b>Radar</b>
<b>Acquisition Range</b>	<b>2.5 nm</b>
<b>Max Engagement Range</b>	<b>1.5 nm</b>
<b>Max Ceiling</b>	<b>7,000 Ft MSL</b>
<b>RWR Symbology</b>	<b>A</b>
<b>Notable Features</b>	<b>Four x 23mm autocannon.</b> <b>Tracked and high mobile.</b> <b>Fires HE rounds that explode on contact or at set altitude.</b>

<b>ZU-57-2</b>	
<b>Guidance Type</b>	<b>None</b>
<b>Acquisition Range</b>	<b>Visual</b>
<b>Max Engagement Range</b>	<b>3 nm</b>
<b>Max Ceiling</b>	<b>20,000 Ft MSL</b>
<b>Notable Features</b>	<b>2 x 57mm autocannon.</b> <b>Tracked, self-propelled system.</b> <b>Uses a version of the widely proliferated S-60 AA cannon.</b>