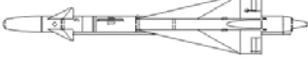
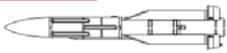


| | | | | | |
|----------|--|---|---|--|--|
| AA-2 | Atoll  | Guidance: IR / SARH Speed (mach): 2.5 Avoidance: Chaff / Flares + Break Turn Characteristics: Low sensitivity seeker. Susceptible to CMDS. Low seeker LOS rates. IR not All Aspect. Low maneuverability. | Eff. Range: WVR CM Vulnerability: | R: 1.5 – 2.0nm Flare - Very High | F: SARH Only 3.0nm Chaff - Very High |
| AA-6 | Acrid  | Guidance: IR / SARH Speed (mach): 5.0 Avoidance: Chaff / Flares + Break Turn / Beam Characteristics: Datalink guided until seeker is in range. High speed (mach 5+). Low IRCCM capability. Limited maneuverability | Eff. Range: BVR CM Vulnerability: | R: 8nm Flare - High | F: 15+nm Chaff - Med |
| AA-7 | Apex  | Guidance: IR / SARH Speed (mach): 3.0 Avoidance: Chaff / Flares + Break Turn / Weaving / Dive and Climb / Beam Characteristics: Low sensitivity seeker. Susceptible to CMDS. No IRCCM. Low seeker LOS rates. Low maneuverability. Loses speed rapidly in turns. | Eff. Range: WVR BVR CM Vulnerability: | R: 4 – 6nm Flare - Very High | F: 10 – 15nm Chaff - High |
| AA-8 | Aphid  | Guidance: IR Speed (mach): 2.0+ Avoidance: 3-4 Flares + Break Turn Characteristics: Low sensitivity seeker. Rudimentary IRCCM. Susceptible to CMDS. Low seeker LOS rates. | Eff. Range: WVR CM Vulnerability: | R: 1.5nm Flare - Very High | F: 2.0nm |
| AA-9 | Amos HIGH THREAT  | Guidance: SARH Speed (mach): 4.5 Avoidance: Chaff + Break Turn / Weaving / Dive and Climb / Beam Characteristics: Good ECCM and chaff resistance. Good maneuverability. Loft trajectory. | Eff. Range: BVR CM Vulnerability: | R: 15 – 25nm Chaff - Low | F: 35 – 50nm |
| AA-10A/B | Alamo  | Guidance: IR / SARH Speed (mach): 4.05 Avoidance: 4-5 Flares / Chaff + Break Turn / Weaving / Dive and Climb / Beam Characteristics: Good seeker sensitivity. Decent IRCCM. Decent maneuverability. Loses speed quickly in turns. | Eff. Range: BVR CM Vulnerability: | R: 5 – 8nm Flare - Med | F: 10 – 15nm Chaff - Med |
| AA-10C | Alamo HIGH THREAT  | Guidance: SARH Speed (mach): 4.05 Avoidance: Chaff + Break Turn / Weaving / Dive and Climb / Beam Characteristics: Loses speed quickly in turns. Lower maneuverability than AA-10A/B but with longer range. | Eff. Range: BVR CM Vulnerability: | R: 10 – 12nm Chaff - Med | F: 25 – 30nm |
| AA-11 | Archer HIGH THREAT  | Guidance: IR Speed (mach): 2.55 Avoidance: 6-8 Flares/2sec + Break Turn Characteristics: Off-Boresight capability. High seeker LOS rate. High gimbal angle. Good IRCCM. High maneuverability-thrust vectoring. Avoid 2-circle fight. | Eff. Range: WVR CM Vulnerability: | R: 1.5 – 3nm Flare - Very Low | F: 4 – 5 nm |
| AA-12 | Adder HIGH THREAT  | Guidance: ARH Speed (mach): 4.0 Avoidance: Chaff + Break Turn / Weaving / Dive and Climb / Beam Characteristics: Range advantage of 5% over AIM-120. Seeker range 8 – 9nm. Supporting Aircraft has to support missile longer than AIM-120. HOJ ability. High maneuverability. VERY dangerous. | Eff. Range: BVR CM Vulnerability: | R: 10 – 15nm Chaff - Very Low | F: 18 – 30nm |
| PL-7 |  | Guidance: IR Speed (mach): 2.5 Avoidance: Flares + Break Turn Characteristics: Low sensitivity seeker. Susceptible to CMDS. No IRCCM. Low seeker LOS rates. IR not All Aspect. High maneuverability. | Eff. Range: WVR CM Vulnerability: | R: 2nm Flare - Very High | F: N/A |
| PL-8 |  | Guidance: IR Speed (mach): 2.5 Avoidance: Flares + Break Turn Characteristics: Low sensitivity seeker. Susceptible to CMDS. Rudimentary IRCCM. Poor background IR clutter rejection. High acceleration and speed. | Eff. Range: WVR CM Vulnerability: | R: 2 – 2.5nm Flare - High | F: 3 – 4nm |

OPFOR Missile Threats

| | | |
|---|--|---------------------|
| SA-2 Guideline | Guidance: (Command) Fan Song Min. Range: 2 – 3nm / 1,200ft Max. Range: 13nm / 70,000ft Maneuverability: LOW Avoidance: Break turn (6-7g) + Chaff / Beam / Destruction Fire Control Radar SEAD: HARM + Cluster Bombs – Use ECM Characteristics: Minimal Chaff Resistance. Site consists of 6 launchers surrounding “Fan Song” missile guidance radar, and a “Knife Rest” or “Spoon Rest” early warning search radar. Destroying “Fan Song” neutralizes SA-2 site. | Site: Static |
|  | | |
| SA-3 Goa | Guidance: (Command) Low Blow Min. Range: 1nm / 5,000ft Max. Range: 11nm / 48,000ft Maneuverability: LOW Avoidance: Break turn (6-7g) + Chaff / Beam / Destruction Fire Control Radar SEAD: HARM + Cluster Bombs – Use ECM Characteristics: “Low Blow” vulnerable to Chaff. Site consists of 4 SA-3 launchers, 1 “Low Blow” missile control radar. Early warning provided by “Flat Face” and “Squat Eye” air defense radars. | Site: Static |
|  | | |
| SA-4 Ganef | Guidance: <u>Initial-</u> (Command) Long Track <u>Terminal:</u> SARH Min. Range: 4nm / 1,500ft Max. Range: 21nm / 80,000ft Maneuverability: LOW Avoidance: Break turn (5-6g) + Chaff / Beam / Destruction Fire Control Radar SEAD: HARM + Cluster Bombs – Use ECM Characteristics: SA-4 is vulnerable to Chaff, and is somewhat easy to defeat kinematically. Site consists of 3 “Ganef” batteries, 1 “Long track” mobile detection radar, and 1 “Thin Skin” height finding radar. The “Ganef” battery consists of 1 “Pat Hand” radar and 3 SA-4 self-propelled launcher units. | Site: Mobile |
|  | | |
| SA-5 Gammon | Guidance: <u>Initial-</u> (Command) Bar Lock <u>Terminal:</u> ARH Min. Range: 3 – 5nm / 6,000ft Max. Range: 40nm / 80,000ft Maneuverability: LOW Avoidance: Break turn (5-6g) + Chaff / Beam / Jamming / Destruction Fire Control Radar SEAD: HARM + Cluster Bombs – Standoff attacks – Missile poses minimum threat inside engagement range. Use ECM Characteristics: Terminal ARH pulse seeker extremely vulnerable to jamming and Chaff. Ineffective against fighters. Low threat vs. large a/c. Minimal threat vs. SEAD strikes even after being fired upon Site consists of 6 launchers, 1 “Bar Lock” target acquisition radar, and 1 “Square Pair” missile control radar. | Site: Static |
|  | | |
| SA-6 Gainful | Guidance: <u>Initial-</u> (Command) Straight Flush <u>Terminal:</u> SARH Min. Range: 1.5 – 2nm / 800ft Max. Range: 11nm / 40,000ft Maneuverability: MED Avoidance: Sustained 8-9g turns + Chaff / Beam / Retain High Airspeed / Destruction Fire Control Radar SEAD: HARM + Cluster Bomb – Standoff attack with AGM-65 and ECM Characteristics: Missile uses lead pursuit course. Optical capability in heavy ECM areas. Medium chaff resistance. Hard to defeat kinematically. Site consists of surveillance radars (“Thin Skin B”, “Long Track”, “Flat Face”, or “Spoon Rest”), 1 “Straight Flush” missile control radar, and multiple SA-6 launchers. | Site: Mobile |
| HIGH THREAT | | |
|  | | |
| SA-7 Grail | Guidance: IR MANPAD Min. Range: N/A / 200ft Max. Range: 1.5nm / 7,000ft Maneuverability: MED Avoidance: Flares + Break Turn / Stay above 7,000ft / Regularly dispense flares when in SA-7 envelope SEAD: Cluster bombs with Medium altitude delivery Characteristics: Often carried by infantry units. Poor seeker sensitivity. Has little resistance to CMDS background IR clutter and the sun, can be outrun by fast aircraft. | Site: MANPAD |
|  | | |
| SA-8 Gecko | Guidance: (Command) Onboard Min. Range: N/A / 300ft Max. Range: 5 – 7nm / 15,000ft Maneuverability: HIGH Avoidance: Chaff (large amount) / Stay out of engagement envelope SEAD: Standoff AGM-65 / DTOS Cluster Bombs / HARM Characteristics: Each launcher has an integral FCR, making HARM attacks less effective. Site consists of multiple SA-8 launchers along with multiple support vehicles. | Site: Mobile SHORAD |
| HIGH THREAT | | |
|  | | |

| | | |
|---|--|-----------------------|
| SA-9 Gaskin | Guidance: IR Min. Range: N/A / 300ft Max. Range: 3 – 4nm / 14,000ft Maneuverability: MED-HIGH Avoidance: Flares + Break turn (8-9g) / Regularly dispense flares when in SA-9 envelope SEAD: AGM-65 / DTOS Cluster bombs Characteristics: Has no IRCCM abilities – very vulnerable to flares and background IR clutter. Lacks radar – No RWR warning. Integrated targeting and launcher vehicle. | Site: Mobile SHORAD |
|  | | |
| SA-10 Grumble | Guidance: (Command) Flap Lid (TVM) Min. Range: N/A / 500ft Max. Range: 50nm / 90,000ft Maneuverability: MED-HIGH Avoidance: Beam / Use terrain masking + low altitude ingress / egress SEAD: HARM- Use low altitude ingress and terrain masking. Destroy radar before it can fire. Characteristics: Chaff not very effective. High power radar will burn through ECM beyond HARM range. Unit consists of self-propelled launcher vehicles, “Tin Shield” and/or “Clam Shell” surveillance radars, “Flap Lid” guidance and command radar. | Site: Static / Mobile |
| HIGH THREAT | | |
|  | | |
| SA-13 Gopher | Guidance: IR Min. Range: N/A / 300ft Max. Range: 4nm / 14,000ft Maneuverability: HIGH Avoidance: Flares (4+) + Break turn SEAD: AGM-65 / DTOS Cluster Bombs / HARM may be effective against ranging radar. Characteristics: All aspect capability. Decent IRCCM and background IR clutter rejection capabilities. Hard to defeat kinematically. Integrated ranging radar and launch vehicle. | Site: Mobile SHORAD |
|  | | |
| SA-14 Gremlin | Guidance: IR MANPAD Min. Range: N/A / 200ft Max. Range: 2.5nm / 14,000ft Maneuverability: MED Avoidance: Flares + Break turn / Stay out of engagement altitude / Maintain high speed + outrun SEAD: Cluster bombs with Medium altitude delivery Characteristics: All Aspect capability. Decent IRCCM and background IR clutter rejection capabilities. Can be outrun by fast aircraft in tail-on aspect. More dangerous than SA-7 | Site: MANPAD |
|  | | |
| SA-15 Gauntlet | Guidance: (Command) Onboard Min. Range: N/A / 150ft Max. Range: 5nm / 15,000ft Maneuverability: HIGH Avoidance: Stay out of engagement range / Chaff and Break turn marginally effective SEAD: HARM / AGM-65 Characteristics: Extremely dangerous. Highly resistant to ECM and chaff. Very maneuverable. Has Electro-Optical tracking for use in heavy ECM environments. Integrated Radar / Fire Control / Launcher vehicle. Stay out of range and use medium level bombing vs. SA-15's. | Site: Mobile SHORAD |
| HIGH THREAT | | |
|  | | |
| SA-16 Gimlet | Guidance: IR MANPAD Min. Range: N/A / 50ft Max. Range: 2.8nm / 15,000ft Maneuverability: MED Avoidance: Flares + Break turn / Maintain high speed and outrun / Stay out of engagement envelope SEAD: Cluster bombs with Medium altitude delivery Characteristics: Has a cooled IR seeker with some degree of IRCCM ability. Larger motor and more efficient trajectory than SA-7 and SA-14 makes it harder to outrun. Higher threat than SA-7 and 14. | Site: MANPAD |
| HIGH THREAT | | |
|  | | |
| SA-19 Grison | Guidance: (Command) Onboard Min. Range: N/A / 100ft Max. Range: 5nm / 10,000ft Maneuverability: MED Avoidance: Chaff + Break turn / Stay out of engagement range SEAD: HARM / AGM-65 Characteristics: Chassis has integrated AAA ability (10,000ft slant range). Very fast missile speed. Integrated Radar / Fire Control / Launcher / AAA. Chaff marginally effective. Stay above range of SA-19 / AAA for increased survivability. SAMs only fire when stationary. | Site: Mobile SHORAD |
| HIGH THREAT | | |
|  | | |
| Hongying HN-5A | Guidance: IR MANPAD Min. Range: N/A / 200ft Max. Range: 2nm / 8,000ft Maneuverability: LOW-MED Avoidance: Flares + Break turn / Stay out of engagement altitude / Maintain high speed + outrun SEAD: Cluster bombs with Medium altitude delivery Characteristics: Chinese copy of SA-7. Seeker head more sensitive than SA-7. Lacks IRCCM capabilities. | Site: MANPAD |
|  | | |

OPFOR SAM Threats --- SA-9 <> SA-19 <> Hongying HN-5A

| | | |
|---|--|--|
| ZS-19  | Tracking: "Firecan" Radar / Optical Rdr Lock Range: 9nm Max Range: H: 7.5 nm V: 45,000 ft Avoidance: Jink vertically Stay out of range | Caliber: 100mm AP Tracer Fuse: Prox / Timed ROF: 15 rpm Fire Mode: Single-Fire Muzzle Vel: 2,900 ft/s Battery Size: 4 |
| KS-12  | Tracking: "Firecan" Radar Rdr Lock Range: 9nm Max Range: H: 3.5 nm V: 20,000 ft Avoidance: Jink vertically Stay out of range | Caliber: 85mm Fragmentation Fuse: Timed / Powder train ROF: 15-20 rpm Fire Mode: Single-Fire Muzzle Vel: 2,600 ft/s Battery Size: 4 |
| S-60  | Tracking: "Firecan" Radar / Optical Rdr Lock Range: 9nm Max Range: H: 2.5 nm V: 15,000 ft Avoidance: Jink vertically Stay out of range | Caliber: 57mm Fragmentation Tracer Fuse: Timed ROF: 70 rpm Fire Mode: 4 round clips / Full Automatic Muzzle Vel: 3,000 ft/s Battery Size: 6 |
| M1939  | Tracking: Optical Rdr Lock Range: N/A Max Range: H: 2.0 nm V: 12,000 ft Avoidance: Stay out of range / Maintain high speed / Jink | Caliber: 37mm HEI Tracer Fuse: Prox / Timed ROF: Pract-80rpm / Cyclic-160rpm Fire Mode: 5 round clips / Full Automatic Muzzle Vel: 2,850 ft/s Battery Size: 6 |
| ZU-23  | Tracking: Optical Rdr Lock Range: N/A Max Range: H: 2.0 nm V: 7,000 ft Avoidance: Stay out of range / Jink | Caliber: 2 x 23mm HE / API w/ Tracers Fuse: Impact ROF: Pract-200rpm / Cyclic-1,000rpm Fire Mode: Full Automatic Muzzle Vel: 3,200 ft/s Battery Size: N/A |
| ZPU-2  | Tracking: Optical Rdr Lock Range: N/A Max Range: H: 1.5 nm V: 6,000 ft Avoidance: Stay out of range / Jink | Caliber: 2 x 14.5mm API Fuse: N/A ROF: Pract-150rpm / Cyclic-600rpm Fire Mode: Full Automatic Muzzle Vel: 3,200 ft/s Battery Size: 6 |
| ZSU-57-2 "Sparka"  | Tracking: Optical Computing Rdr Lock Range: N/A Max Range: H: 2.5 nm V: 15,000 ft Avoidance: Stay out of range / Jink | Caliber: 2 x 57mm Fragmentation Tracer Fuse: Prox / Timed ROF: Pract-70rpm Fire Mode: 5 round clips / Full Automatic Muzzle Vel: N/A Battery Size: N/A |
| ZSU-23-4 "Shilka" HIGH THREAT  | Tracking: "Gun Dish" FCR/ Optical Rdr Lock Range: 6nm Max Range: H: 2.0 nm V: 7,000 ft Avoidance: Stay out of range / Jink Very dangerous | Caliber: 4 x 23mm HE / API (1-2 barrels at once) Fuse: Impact ROF: Cyclic 1000rpm / barrel Fire Mode: Selectable 3 – 30 rd. burst / barrel Muzzle Vel: 3,200 ft/s Battery Size: 2 |
| M-1992 HIGH THREAT  | Tracking: "Gun Dish" FCR / Optical Rdr Lock Range: 6nm Max Range: H: 2.0 nm V: 9,000 ft Avoidance: Stay out of range / Jink | Caliber: 2 x 30mm HEI Tracer Fuse: Impact ROF: Cyclic-800rpm Fire Mode: Full Automatic Muzzle Vel: N/A Battery Size: N/A |
| 2S6M "Tunguska" (SA-19 "Grison") HIGH THREAT  | Tracking: "Hot Shot" FCR / Optical Rdr Lock Range: 10nm Max Range: H: 2.0 nm V: est. 9,000 ft Avoidance: Stay out of range / Jink Extremely Dangerous Has onboard SAM's. | Caliber: 4 x 30mm HE Tracer / Incendiary Fuse: Impact / Timed ROF: Cyclic-4000rpm Fire Mode: 1 sec (83 rds) or 3 sec (250 rds) burst Muzzle Vel: 3,150 Battery Size: N/A |

OPFOR AAA Threats

| | | |
|---|---|---|
| Mig-17 Fresco Shenyang J-5 | Armament: AA-2C/D A-A Threat Type: WVR R Asp. Only | Engine power: Low T/W ratio Speed (top): Mach 1.35 |
|  | RWR: None Radar Range Look Up: None Look Down: None Characteristics: Lacks any modern avionics. No radar or RWR. Easily destroyed by modern fighters. | Dogfight ability: Vertical: Very Low Horizontal: Med A-A Tactics: Horiz. Plane Turn + Burn CMDS / ECM: None Primary Missions: Ground Attack |
| Mig-19 Farmer Shenyang J-6 | Armament: AA-2C/D A-A Threat Type: WVR R Asp. Only | Engine power: Low T/W ratio Speed (top): Mach 1.35 |
|  | RWR: est. < 10 nm Radar Range Look Up: 8 – 12 nm (Range Only) Look Down: None Characteristics: Blind spot (20-30 deg) behind A/C. Easily destroyed by modern fighters. | Dogfight ability: Vertical: Very Low Horizontal: Med A-A Tactics: Horiz. Plane Turn + Burn CMDS / ECM: None Primary Missions: BAI / CAS |
| Mig-21 Fishbed Chengdu J-7 III | Armament: AA-2C/D, AA-8 A-A Threat Type: WVR Ltd F. Asp. | Engine power: Low T/W ratio Speed (top): Mach 1.8 |
|  | RWR: < 20 nm Radar Range Look Up: (12 - 14 nm) Look Down: None Characteristics: High drag in turning fight. RWR leaves it vulnerable to hi-alt, long-range BVR shots. | Dogfight ability: Vertical: Very Low Horizontal: Low-Med A-A Tactics: Ambush / Slash + Run CMDS / ECM: None Primary Missions: Point defense CAP / Basic A-G |
| Mig-23 Flogger | Armament: AA-7, AA-8 A-A Threat Type: WVR / Ltd. BVR /Ltd F. Asp IRST | Engine power: High T/W ratio Speed (top): Mach 2.35 |
|  | RWR: 20-23 nm Radar Range BurnThrough: est. 4-8 nm Look Up: 35 nm Look Down: Yes Characteristics: Excellent acceleration. Has the ability to fight in the vertical. F16 can out turn Mig-23 at the F16's corner speed. | Dogfight ability: Vertical: Med Horizontal: Med-High A-A Tactics: Ambush / Slash + Run / Chase CMDS / ECM: None Primary Missions: Intercept / Fighter |
| Mig-25 Foxbat | Armament: AA-6, AA-8 A-A Threat Type: BVR / WVR / F. Asp. | Engine power: Very High T/W ratio Speed (top): Mach 2.8 |
|  | RWR: 20+ nm Radar Range BurnThrough: est. 8-12nm Look Up: 40+ nm Look Down: Yes Characteristics: Not a good turn fighter. Tremendous speed gives the Mig-25 an F-Pole advantage. Use ECM to deny the enemy a missile shot and close to within AIM-120 range. | Dogfight ability: Vertical: Good Horizontal: Low-Med A-A Tactics: Ambush / Slash + Run CMDS / ECM: None Primary Missions: Interceptor / Recon |
| Mig-29 Fulcrum HIGH THREAT | Armament: HMS+AA-11, AA-10 A-A Threat Type: BVR / High WVR | Engine power: High T/W Ratio Speed (top): Mach 2.3 |
|  | RWR: 20+ nm Radar Range BurnThrough: A/B:12-15 C:15-18nm Look Up: 45+ nm Look Down: Yes Characteristics: HMS and AA-11 combo makes 2 circle dogfights very dangerous against a Mig-29. Has superior turn handling over the F16 below 400 kts. Radar susceptible to jamming and notching. ECM should prevent a shot until a range of 12-15 nm. "C" version has a higher power radar | Dogfight ability: Vertical: High Horizontal: Very High A-A Tactics: BVR shot, Knife fight CMDS / ECM: CMDS and ECM Primary Missions: Air Superiority |
| Mig-31 Foxhound HIGH THREAT | Armament: AA-9, AA-8, AA-6 A-A Threat Type: High BVR / WVR Passive IRST | Engine power: Very High T/W Ratio Speed (top): Mach 2.83 |
|  | RWR: 25 nm Radar Range BurnThrough: 22+ nm Look Up: 60+ nm Look Down: Yes Characteristics: Dangerous fighter, roughly equivalent to the F-14. Has AA-9 missiles – the Russian equivalent of the AIM-54 Phoenix. Prefers to stay at high altitudes to maximize range of its AA-9 missiles. Has a huge F-pole advantage. Radar has excellent chaff resistance. Mediocre dogfighter due to its size and weight. | Dogfight ability: Vertical: Very High Horizontal: High A-A Tactics: High Alt. Long Range BVR CMDS / ECM: CMDS and ECM Primary Missions: Air Superiority / Fleet Defense |

Su-25 Frogfoot

Armament: AA-2, AA-8
A-A Threat Type: **WVR**

RWR: N/A
Radar Range
Look Up: N/A
Look Down: N/A

Characteristics: Not a threat to fighter aircraft. Lacks radar and RWR. Low maneuverability and speed. Avoid overshooting the Su-25 when attacking it. Has basic IR missiles for self-defense.

Engine power: **Very Low T/W Ratio**

Speed (top): **Mach 0.8**

Dogfight ability: Vertical: **Very Low**
Horizontal: **Very Low**

A-A Tactics: **Avoids A-A combat**

CMDS / ECM: **CMDS**

Primary Missions: Air to Ground, CAS, BAI

Su-27 Flanker**HIGH THREAT**

Armament: AA-12, AA-10C, HMS+AA-11
A-A Threat Type: High **BVR** / High **WVR**

RWR: 23-25 nm
Radar Range BurnThrough: 22+ nm
Look Up: 48+ nm
Look Down: Yes

Characteristics: Very dangerous A/C. AA-12 allows the Su-27 the first shot in BVR, though that advantage is somewhat nullified by the AA-12's longer support time. High acceleration and turn rate, combined with the HMS+AA-11 combo makes the Su-27 a deadly dogfighter.

Engine power: **Very High T/W Ratio**

Speed (top): **Mach 2.35**

Dogfight ability: Vertical: **Very High**
Horizontal: **Very High**

A-A Tactics: **First shot BVR, Knife fight**

CMDS / ECM: **CMDS and ECM Pods**

Primary Missions: Air Superiority

Su-30 Flanker**HIGH THREAT**

Armament: AA-12, AA-10C, HMS+AA-11
A-A Threat Type: High **BVR** / High **WVR**

RWR: 23-25 nm
Radar Range BurnThrough: 22+ nm
Look Up: 48+ nm
Look Down: Yes

Characteristics: The Su-30 Flanker is a 2-seater multi-role fighter, similar to the F-15E Strike Eagle. It has the ability to perform precision strikes and SEAD missions along with its air superiority duties. It is slightly less maneuverable than the Su-27, but has similar abilities and tactics.

Engine power: **Very High T/W Ratio**

Speed (top): **Mach 2.35**

Dogfight ability: Vertical: **Very High**
Horizontal: **Very High**

A-A Tactics: **First shot BVR, Knife fight**

CMDS / ECM: **CMDS and ECM Pods**

Primary Missions: Air Superiority / Strike / SEAD
