

## **Scenario Description**

Welcome to the Modern Russian and Chinese Weapons tutorial.

This is the seventh in a series of tutorials designed to teach players the fundamentals of air operations in Command. In this tutorial, the following topics will be covered:

- Operation of Russian and Chinese modern missiles.
- Operation of stealth aircraft.
- Engaging airborne HVT (High Value Targets).
- Engaging aircraft armed with modern long-range missiles.
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Pop-ups will appear with important messages during this scenario. You can find a PDF of them in the documents folder that comes with these tutorials. The default location is: C:\Program Files (x86)\Command Modern Operations\Scenarios\Tutorials\Air Warfare Tutorials\Flight Tutorial\Documents.

For Steam users, they will be located at: C:\Program Files (x86)\Steam\steamapps\common\Command - Modern Operations\Scenarios\Tutorials\Air Warfare Tutorials\Flight Tutorial.

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**Note:** To successfully complete this scenario, you will need to use the knowledge gained in the previous tutorials.

## **Scenario Briefing**

Welcome to the Modern Russian and Chinese Weapons tutorial.

In this scenario you will be guided through the following topics:

- Operation of Russian and Chinese modern missiles.
- Operation of stealth aircraft.
- Engaging airborne HVT (High Value Targets).
- Engaging aircraft armed with modern long-range missiles.

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### **Message 1**

Good morning!

Today you will impersonate the commander of the Ramat David Air Base in Northern Israel in an alternate timeline where Israel bought military aircraft from Russia and China! This will be a good opportunity to learn more about Russian and Chinese hardware.

You have two J-16 Flying Shark (Chinese), two J-20B Mighty Dragon (Chinese), two FC-31 Gyr Falcon (Chinese), two MiG-31BM Foxhound (Russian), two MiG-35D Fulcrum F (Russian), two Su-27SM/SM3 Flanker B (Russian), two T-50 PAK-FA (Russian), two A-50U Mainstay A AEW (Russian) and two Il-78M Midas (Russian) tankers under your command.

Your fighters are armed as follows:

Chinese

- 2x J-16 Flying Shark: 6x PL-12 and 2x PL-8C [Python 3].
- 2x J-20B Mighty Dragon: 2x PL-10 and 4x PL-15.
- 2x FC-31 Gyr Falcon: 2x PL-10 and 4x PL-15.

Russian:

- MiG-31BM Foxhound: 4x AA-11 Archer [R-73] and 4x AA-9 Amos B [R-33S, SARH].
- MiG-35D Fulcrum F: 2x AA-11 Archer [R-73M] and 4x AA-12 Adder B [R-77, RVV-SD].

- Su-27SM/SM3 Flanker B: 2x AA-10 Alamo A [R-27R, MR TSARH], 2x AA-10 Alamo C [C-27ER, LR TSARH], 2x AA-10 Alamo D [R-27ET, LR IR], and 2x AA-11 Archer [R-73M].
- T-50 PAK-FA: 2x AA-11 Archer [R-74M2], 2x AA-12 Adder C [R-77M], and 2x AA-13 Arrow [R-37M, RVV-BD].

## **Missile Types:**

### Chinese:

- PL-8C [Python 3]: All-Aspect mid-course plus Passive Infrared (IR) terminal guidance. Range: 0.2-8nm.
- PL-10: All-Aspect, High Off-Boresight mid-course plus Passive Infrared (IR) terminal guidance. Range: 0.2-10.8nm.
- PL-12: All-Aspect and Datalink (DL/INS) mid-course plus Active Radar Homing (ARH) terminal guidance. Range: 2-50nm.
- PL-15: GPS-Updated Inertial (INS) and Datalink (DL/INS) mid-course plus Active Radar Homing (ARH) terminal guidance. Range: 2-108nm.

### Russian:

- AA-9 Amos B [R-33S, SARH]: Inertial (INS) mid-course plus Semi-Active Radar Homing (SARH) terminal guidance. Range: 1.3-86.4nm.
- AA-10 Alamo A [R-27R, MR TSARH]: Datalink (DL/INS) mid-course plus Semi-Active Radar Homing (SARH) terminal guidance. Range: 0.3-32nm.
- AA-10 Alamo C [R-27ER, LR TSARH]: Datalink (DL/INS) mid-course plus Semi-Active Radar Homing (SARH) terminal guidance. Range: 0.3-50nm.
- AA-10 Alamo D [R-27ET, LR IR]: All-Aspect mid-course plus Passive Infrared (IR) terminal guidance. Range: 0.3-43.2nm.
- AA-11 Archer [R-73]: All-Aspect, High Off-Boresight mid-course plus Passive Infrared (IR) terminal guidance. Range: 0.2-10nm.
- AA-11 Archer [R-73M]: All-Aspect, High Off-Boresight mid-course plus Passive Infrared (IR) terminal guidance. Range: 0.2-10nm.
- AA-11 Archer [R-74M2]: Inertial (INS) mid-course plus Passive Infrared (IR) terminal guidance. Range: 0.2-15nm.
- AA-12 Adder B [R-77-1, RVV-SD]: All-Aspect and Datalink (DL/INS) mid-course plus Active Radar Homing (ARH) terminal guidance. Range: 0.2-59.4nm.
- AA-12 Adder C [R-77M]: All-Aspect and Datalink (DL/INS) mid-course plus Active Radar Homing (ARH) terminal guidance. Range: 2-75nm.

- AA-13 Arrow [R-37M, RVV-BD]: All-Aspect and Datalink (DL/INS) mid-course plus Active Radar Homing (ARH) terminal guidance. Range: 2-108nm.

## **Message 2**

We have good intelligence that the Syrians are planning to strike our base. The intruders must be destroyed.

We expect the Syrians to use these fighters:

- MiG-23ML Flogger G: AA-7 Apex C [R-24R, SARH] and AA-8 Aphid [R-60M].
- MiG-25P Foxbat A: AA-6 Acrid A [R-40R, SARH] and AA-6 Acrid B [R-40T, IR].
- MiG-29M2 Fulcrum C: AA-10 Alamo A [R-27R, MR TSARH] and AA-11 Archer [R-73].

## **Red Missile Types:**

- AA-6 Acrid A [R-40R, SARH]: Semi-Active Radar Homing (SARH). Range: 4-30nm
- AA-6 Acrid B [R-40T, IR]: Rear-Aspect mid-course plus Passive Infrared (IR) terminal guidance. Range: 4-30nm.
- AA-7 Apex C [R-24R, SARH]: Semi-Active Radar Homing (SARH). Range: 2-27nm.
- AA-8 Aphid [R-60M]: All-Aspect mid-course plus Passive Infrared terminal guidance. Range: 0.2-5nm.
- AA-10 Alamo A [R-27R, MR TSARH]: Semi-Active Radar Homing (SARH). Range: 2-45nm.
- AA-11 Archer [R-73]: All-Aspect, High Off-Boresight mid-course plus Passive Infrared (IR) terminal guidance. Range: 0.2-10nm.
- AA-12 Adder [R-77, RVV-AE]: All-Aspect and Datalink (DL/INS) mid-course plus Active Radar Homing (ARH) terminal guidance. Range: 2-43.2nm.

They also have a couple of H-6E Badger bombers armed with FAB-500M-54 GPB iron bombs and an A-50 Mainstay A AEW aircraft.

An AEW aircraft is a high-value asset and a force multiplier, as its potent radar can track enemy forces at long range and send targeting information to the fighters. Therefore, it should be a top priority to target it.

Interceptors armed with very-long range missiles, like the MiG-31 or the J-20, can be useful for this task. These missiles have a lower PoH (90% for the PL-15 and 85% for AA-

9 Amos and AA-13 Arrow), that will further decrease at long range. Using them against an agile fighter will likely result in a miss but are a serious threat against non-maneuverable HVTs (AEW airplanes, tankers, transports, etc).

When you localize the enemy A-50 send a MiG-31, T-50 PAK-FA, J-31 or J-20 to destroy it.

But now, switch on a radar or, better, launch a A-50U Mainstay A. Then order some fighters to take off.

### **Message 3**

You have just detected some aircraft.

Before engaging, make sure that it's an enemy aircraft.

There is a lot of civilian traffic in this part of the world, so you need to carefully identify contacts before engaging!

**Note 1:** Remember that military aircraft usually fly together in groups.

### **Message 4**

We have identified some Syrian military aircraft!

Destroy them before they can get to Israel!

**Note 1:** You have some stealth aircraft under your command. They aircraft are harder to detect and to target, and thus can get closer to the enemy.

**Note 2:** The Syrian Fulcrums are armed with medium and long-range missiles and are more dangerous than the other aircraft. You can try to engage them with very long-range missiles, but this will probably result in a miss. Alternatively, you can use a stealth fighter to engage them at closer range.

Make sure to properly set the WRA for your forces in the Doctrine Window (CTRL + SHIFT + F9).

## **Message 5**

Well done! You have successfully destroyed all the enemy aircraft.

I suggest you try this scenario again using different aircraft and weapons to learn the differences between them. This will be useful preparing you to face more difficult aerial engagements.

When you think you're ready, move onto the next tutorial.