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Mountain Home's
Gunfighters
800th Fighter Squadron Thunderbolts

48-033

WHAT'S OUT THERE?

- 1/48 Hasagawa F-16CJ Fighting Falcon
- Black Box F-16C Cockpit Set
- Airwaves Detail Set
- Edward F-16CJ Detail Set
- Edward Canopy and Wheel Masks
- Cutting Edge Canopy and Wheel Masks
- Flightpath ALQ-131 ECM Pod



A/C 92-3880

A/C 97-0392

Note:
All squadron-level markings remain the same for all A/C. There are minor variations, however, in Ejection Triangle placement.



A/C 92-3889



Moss Gear Door
Use applicable decal



Note:
The 388th Fighter Squadron flies the Block 32 Fighting Falcon.
Griff mouth intake
Pylon & Whiskey Marker
HTS Pod
Small VLD

Note:
All squadron-level markings remain the same for all A/C. Repeat minor variations in Ejection Triangle placement.

FS6118
Testors MM 1723
Humbrol 74/125
Gunze Sangyo A305
Xtracolor X130

FS6270
Testors MM 1725
Humbrol 174/156 + 174/34
Gunze Sangyo A306
Xtracolor X133



Special thanks go out to Lt. Col. Thomas Lawhead, CMSgt Andy Bauer and all the professionals at the 38th Fighter Squadron for their help in putting this sheet together.

GBU-31 and GBU-103 In Combat

The 38th Thunderbolts from Mountain Home AFB, Idaho were the first F-16 unit to ever use the Wind Corrected Munitions Dispenser (WCMD) and GBU-31 in combat.

Captain Bill Andrews, commander of the 38th Air Expeditionary Group and Capt. Paul Kimes, a pilot with the 38th Fighter Squadron had their names put in the record books on the first pilots to employ the GBU-31 Joint Direct Attack Munition (JDAM) from F-16 on November 24, 2001 in Afghanistan while flying sorties in support of Operation Enduring Freedom.

Captains Mark Piper and Mark Mosher also had their names listed in the record books for being the first pilots to employ the GBU-103 WCMD in combat on November 13, 2001.

The JDAM and WCMD are the first of a new breed of smart weapons that can sense and track their targets.

The JDAM can be employed at night and during bad weather and from higher altitudes than DUU type weapons since there is no need for external guidance. The JDAM uses an inertial GPS receiver in a tail kit that allows it to find its target fairly accurately from the launch platform.

During Desert Storm the USAF was getting less than acceptable results when employing the GBU-103 and JDAM cluster munitions. These munitions would be employed from medium to low altitude in order to have an acceptable Circular Error Probable (CEP) of striking its target. The attack profile exposed the crews to the intense SAM and AAA fire that were in theater. Increasing altitude to get above the ground-to-air threat when combined with the smart weapons also increased the CEP of these weapons and the accuracy was unacceptable.

The WCMD has kits compensates for ballistics errors and winds such as the GBU-31, 96 and JDAM cluster munitions use a very accurate weapon. These munitions can now be dropped from higher altitudes with devastating results.

There were four typical loadouts that were flown by the 38th Fighter Squadron during their deployment in support of Operation Enduring Freedom. These are listed below.

1. One 1 and 9 - AIM-120 AMRAAM
One 3 and 7 - 1 X GBU-103 (GBU-47 with WCMD kit)
One 4 and 6 - 370 gal Fuel Tank
HTS Pod on right cheek station
One 3 and 8 and Conter's a choice were clear
Full load of HD

2. One 1 and 9 - AIM-120 AMRAAM
One 3 and 7 - 1 X GBU-31 (JDAM)
One 4 and 6 - 370 gal Fuel Tank
One 2 and 8 and Conter's a choice were clear
Full load of HD

3. One 1 and 9 - AIM-120 AMRAAM
One 3 and 7 - 2 X GBU-37 on TDR
One 4 and 6 - 370 gal Fuel Tank
One 2 and 8 and Conter's a choice were clear
Full load of HD
Carried this loadout when DCMOs were expended.

4. One 1 and 9 - AIM-120 AMRAAM
One 3 - 1 X GBU-103
One 7 - 1 X GBU-28
One 4 and 6 - 370 gal Fuel Tank
One 2 and 8 and Conter's a choice were clear
Full load of HD
Carried this loadout as a targeting pod. One mission was shot during the deployment.

Mission scoreboard markings signify one marking for every mission drop and which munition was carried inside the bomb. The crossed paths on A/C are signify that the job was used and how many rounds were expended.

Thanks to CMSgt Andy Bauer for his helpful assistance.

Wind Corrected Munitions Dispenser (WCMD)

Description:

The Wind Corrected Munitions Dispenser (WCMD) is an inexpensive tail kit that turns existing cluster munitions (GBU-37, 96, 97) into all-weather precision guided weapons. By connecting the WCMD provides strike aircraft with an accurate path to the target. The WCMD provides strike aircraft with an accurate path to the target by compensating for wind, altitude, and other factors. The WCMD provides strike aircraft with an accurate path to the target by compensating for wind, altitude, and other factors.

The low cost dispenser guidance kit consists of an inertial measurement unit, airspeed control surfaces and wing and air estimation and compensation algorithms.

The "one size fits all" interface provides for common software, air hardware, and common mission planning software for all GBU's. Each weapon can be independently targeted to achieve maximum operational effectiveness.

Features:

Autonomous, all weather air operations
Compatible with all F-16 strike aircraft
All off-axis and off-axis battery
Preplanned and in-flight mission planning
Independently programmable for attacking wide area targets
Real-time wind compensation to achieve accurate dispersion
Precision ground target placement and submunition family
Common nose-release kit for inventory weapon

Specifications:

Accuracy -
90% Circular Error Probability (CEP)

• GBU compatibility -
• GBU-37/96/97
• GBU-96/103/109
• GBU-37/96/97



WCMD Tail Kit



GBU/WCMD Exploded View

Illustration and images courtesy of Lockheed Martin Corp.

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