

NDIA Conference November 4th, 2008







ISR Innovations and UAV Task Force Directorate





November 2008

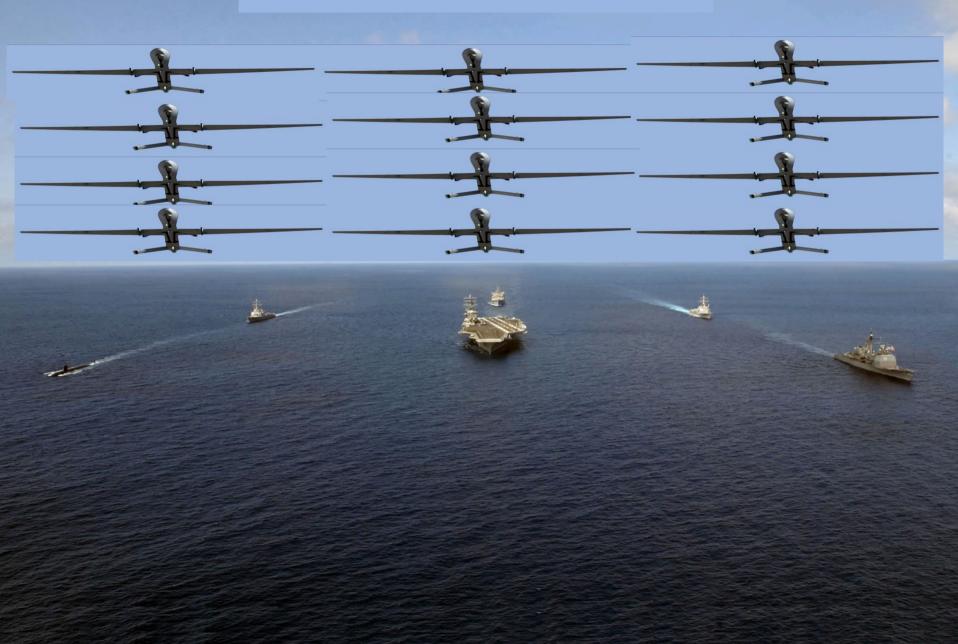




He's armed and dangerous

And now he's an actual "Intel Guy"

USAF UAV Task Force





Yoda of Predator



Tazar AB Hungary 1996



Kandahar AB Afghanistan 2008



A2-U's Expertise:

We've done it longer than anyone else.

We built many of the capabilities.

Our personnel are flying it today.

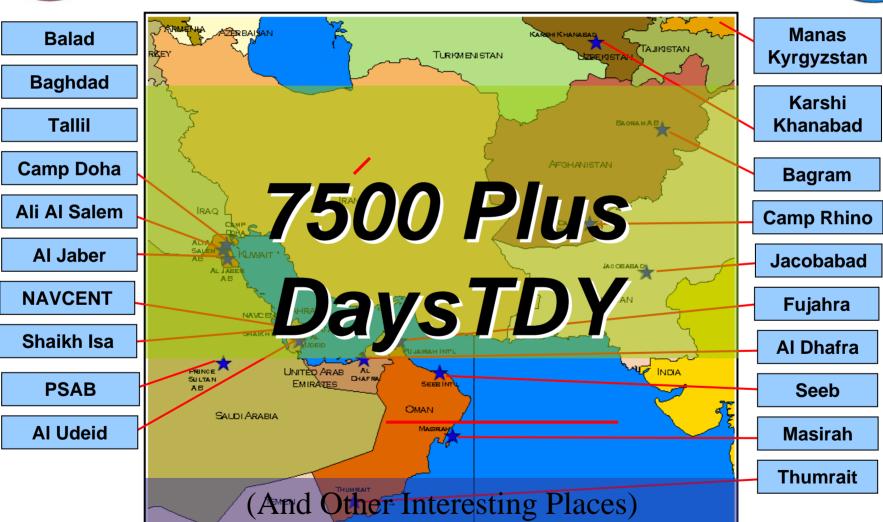
**And Snake can still fit into a Flight Suit



A2-U in the AOR



June 2001 – August 2008





MQ-1 Predator Reaches 440,000 hours





4000 + Weekly Combat Hours 28 Combat CAPS

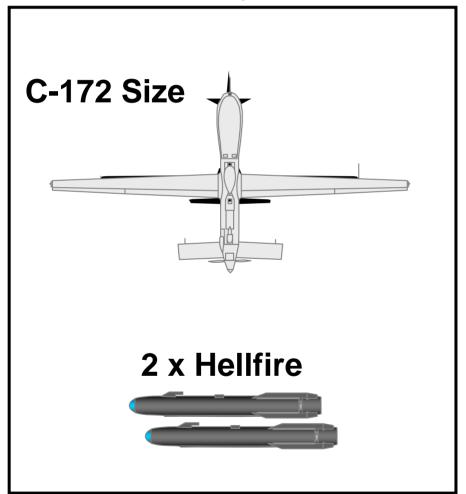


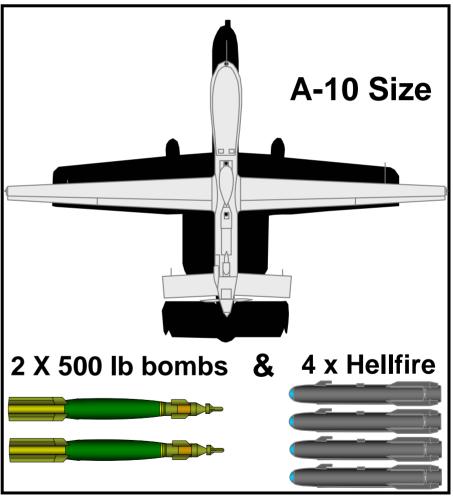


MQ-1/MQ-9 Comparison



MQ-1





MQ-9



Smart reach back UAV **Operations**

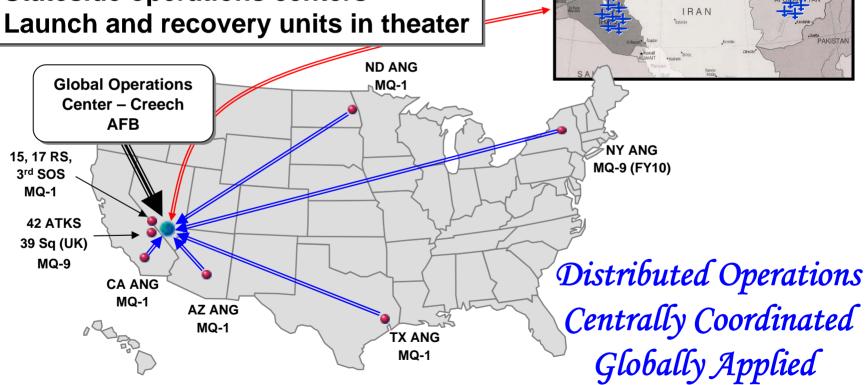


Total Force Operations

Active Duty, Reserve, National Guard, **Special Operations, United Kingdom**

6 - Stateside operations centers

5 - Launch and recovery units in theater

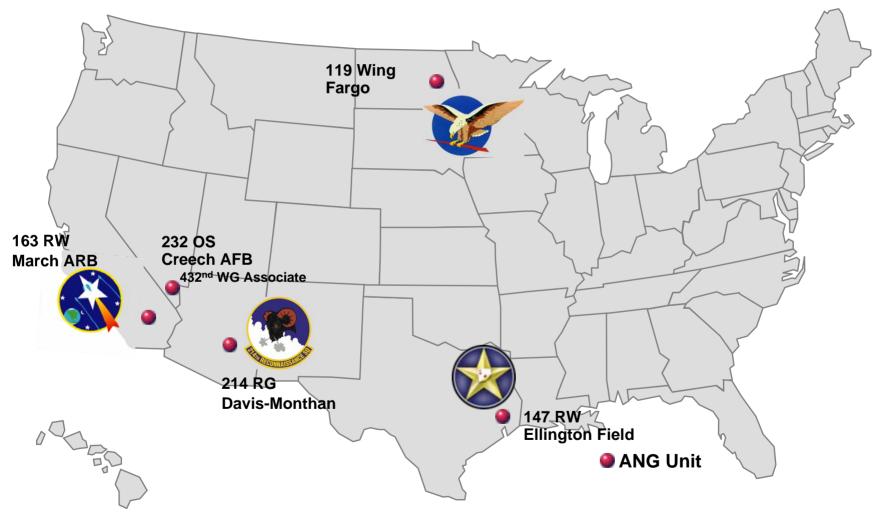


Over 1000 personnel flying Combat Operations not in harms way



ANG MQ-1 Organization







Air National Guard Total Force Transformation



- Convert BRAC units to new UAVs Mission
- Maintaining years of Aircrew experience
 (F-4, F-15, F-16, F-117, A-10, B-52, C-5, C-17, C-21, C-130, KC-135, & AH-64)
- From a high time of 5000+ hours to an average of over 1500 hours
- Minimum training for High Combat Experience
- Maintaining extensive Maintenance, Logistics, Training, Intel Support, and Facilities to the new mission at a minimum cost

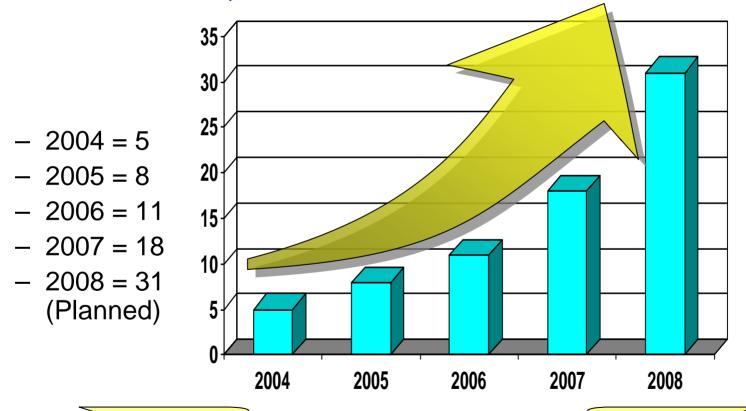
Bottom line: Flying, armed UAV's is not simple 13 ½ years and 450 K hours lesson learned



Predator Combat Growth



Air Force MQ-1B Predator Combat Air Patrols



520% Increase in 4 years!



Predator Innovations



Laser Designator	Kosovo	38 Days
Hellfire	2001	61 Days
Remote Split Ops	2001	5 Days
Stinger	2002	91 Days
ROVER	2002	4 Days
Hellfire Sleeve	2002	21 Days
GBU-12	2003	9 Months
Link-16/SADL	2004	8 Months

FalconView Multi-Predator Tool, Super Splitter, Cursor on Target, UAS Mission Information System, Blue Force Tracking, Civil Air Tracks, ISR Information Services, Wing/Squadron C2, Predictive Control Displays, Predator FalconView enhancements . . .



ROVER Full Motion Video directly to the Warfighter



Predator

SNIPER Pod

Litening Pod

P3

Raven

Pioneer

Pointer

AC-130

Shadow

Hunter

Fire Scout

Scathe View





















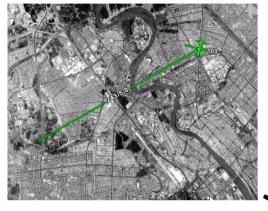


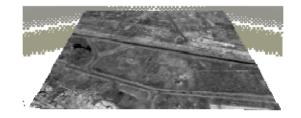




ROVER Big Picture









FalconView
Maps
+
Imagery



PSS-SOF Precision Targeting



ROVER



with ROVER in OIF

ROVER Revolutionizes the Battlefield



Over 14 NATO and ISAF countries use ROVER

- UK France Australia Germany

Portugal Norway New Zealand Canada

Belgium Netherlands Sweden Italy Spain

85% of CAS mission done





Fielded ROVERs









ROVER I: (Pred to AC-130) Total Delivery – 20

ROVER II: (Aircraft to JTAC)
Total Delivery 147

ROVER III – Multi-band receiver C/L/KU Total Delivery 2331



ROVER IV Total Delivered 1169



ROVER 4200



OSRVT 1083

ROVER Recycling Program Upgrade ROVER 3's to ROVER 4's only \$7K



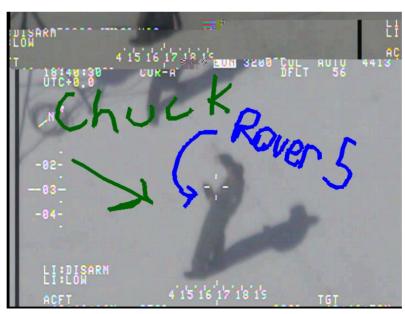
ROVER 5 Test Sep 08





- Full Encryption
- 4 pounds
- John Madden
- Full production Nov 08









A2-U Afghanistan Eagle Express



- 145 Laptops computers with NATO releasable maps and imagery on FalconView
 - Six Regional Commands
 - Provided FV training

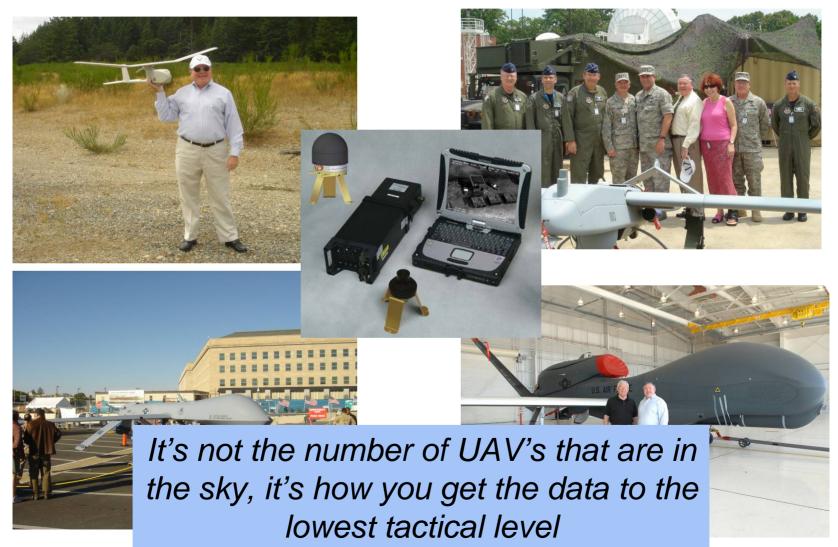






Enhanced Combat Situational Awareness



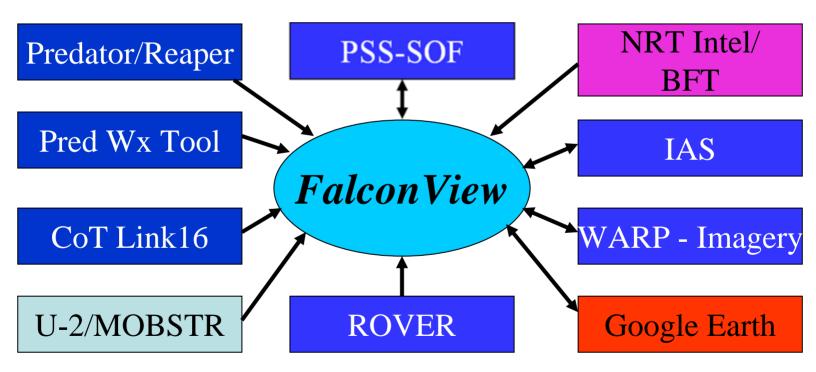




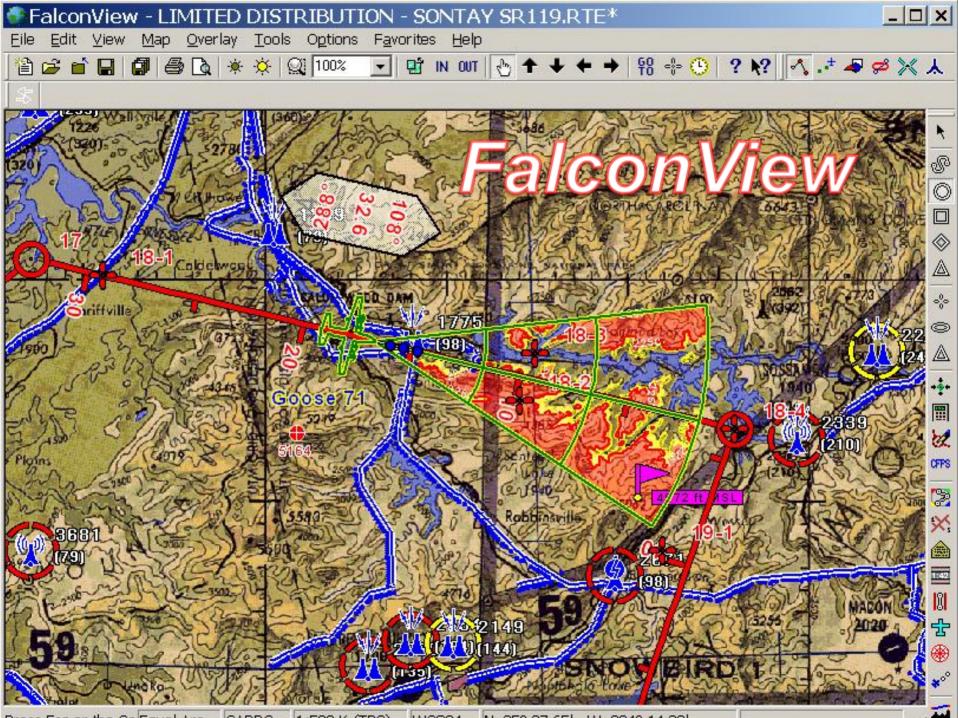
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Increasing Connectivity – the "glue" that provides SA to the operator

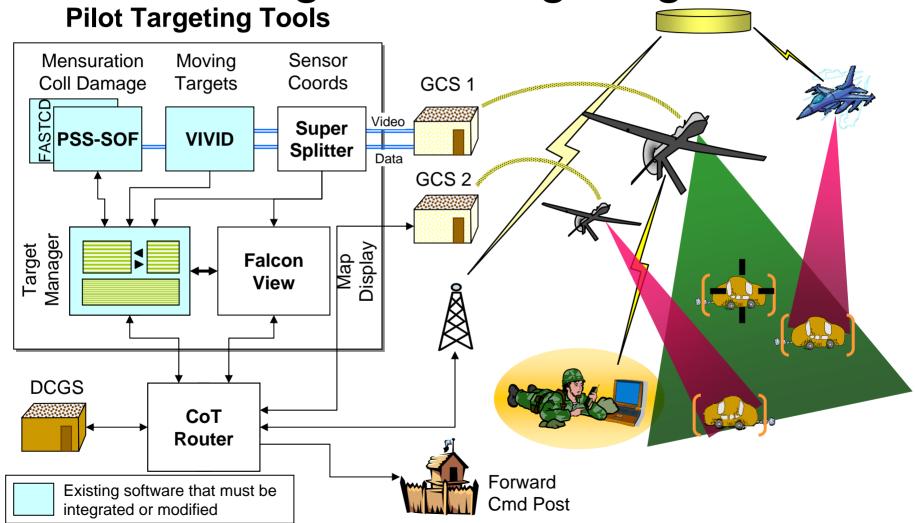


Even used on Air Force One!





Predator Reaper Integrated Targeting





ROVER & FalconView Support







Hurricane Katrina

San Diego Fires

Northern CA

Fire Lines

Big Island Fires

Tsunami Assistance

RP Flooding

RP Mudslide

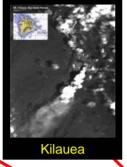
US Natural Disasters

Burma Cyclone

Volcano

EV5 Worldwide Support





Big Island Fire





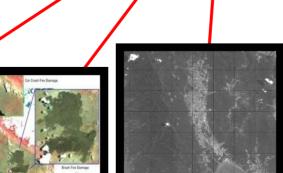


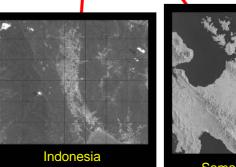






Fire Line

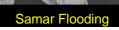




EV5



Leyte Mudslide



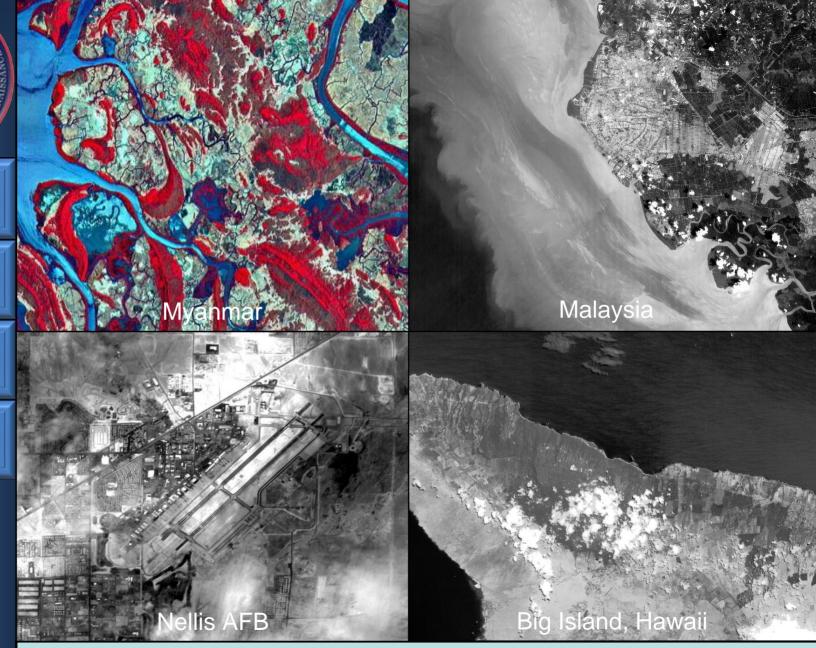


IKONOS

SPOT-5

SPOT-4

SPOT-2



Resolution: 20 meter Revisit Time: 2-3 Days Imagery: EO Panchromatic & Multispectral Times: 1000-1400 License: Title 50



IKONOS

SPOT-5

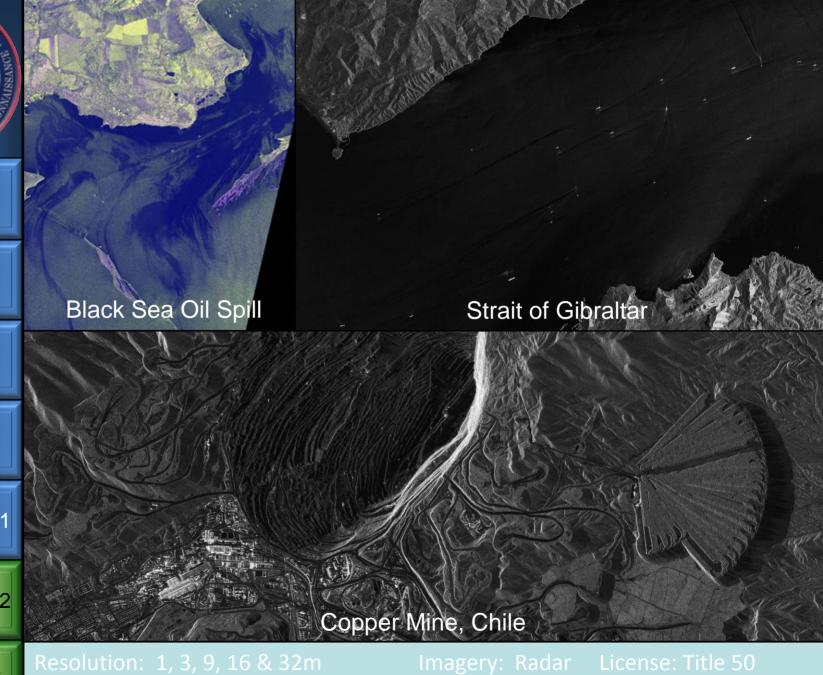
SPOT-4

SPOT-2

RADARSAT-1

RADARSAT-2

TerraSAR-X





Smithsonian NASM Dedication 23 Apr 2008





16 Sep 01 thru 25 Jul 03 Combat Sorties 196 Combat Hours 2606

1st Hellfire Test 16 Jan 01 1st Hellfire Combat Shot 07 Oct 01





USAF Way Ahead



- Support Today's Fight
 - Increase Combat CAPs
 - Increase MQ-9 Reaper Deployments
- Continue Innovation and Rapid Fielding
- Improve Full Motion Video to the Warfighter
- Improve Interoperability of Multiple Systems
- Next Generation MQ-X







A2U



Questions???



