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Headquarters U.S. Air Force

Air Forces
Warfighting Headquarters (WFHQs) & Combat Analyst Update

Capt David Koewler
AFSAA/SACO
June 05

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Agenda

- WFHQ
  - Brief Overview
  - Highlight how OR analysts are integrated

- Combat Analyst
  - Define Combat Analyst
  - History of Operations Research
  - Career field Functional Management
  - Milestones
  - UTCs developed
  - Abbreviated Example
  - Current Deployment Requirements
WFHQ Construct

Legend
- Yellow: Falconer AOC
- Red: Tailored Falconer AOC
- Purple: Functional AOC
- Blue: No AOC

Notes: Solid colored regions equate to the Strategic Planning Guidance critical regions.

The regional headquarters symbols reflect their general areas of responsibility, not their physical location.

Figure 1
WFHQ Basic Template

WFHQ/CC designated the AF Component /CC

MAJCOM/CC designated the AF Component /CC

Figure 2
WFHQ Transition

Figure 3
AOC Structure

COMAFFOR / CFACC Command Section

DIRSPACEFOR

AOC Commander

DIRMOBBFOR

Strategy Division
Combat Plans Division
Combat Operations Division
ISR Division
Air Mobility Division

Specialty teams
Agile Combat Support

Figure 5
AFFOR Staff Structure

Note: The Chief of Staff (CoS) is a member of the command staff and coordinates and directs the day-to-day activities of the AFFOR staff

Figure 12
Personnel trained in Operations Research (OR)

Deploy to support AOCs and warfighting staffs

Improve commanders decision making process
  - Integrate knowledge across stove-piped systems and processes
  - Provide unique perspective & problem solving skills

Discover problems not recognized as significant

Improve implementation of new warfighting capabilities

Guide assessment of ongoing operations

I want my ORs (61SAs) to be ops line officers and operational, rather than pure S&Es.”

SECAF - 4 Jun 03
Not a new idea…

History of Operations Research

- 1939 Air Ministry at Bawdsey Research Station (Great Britain)
  - Assigned groups of scientists to military staffs to serve as scientific advisers concerning strategic and tactical problems
  - Collected and analyzed statistical results from military operations and made recommendations

- Results
  - Devised new tactical rules and applications of weapon systems
  - Supported military decisions on combat operations, weapon employment and design

Science at War
‘Analysts will be key in providing essential information to future CFACCs.’
Gen Moseley, CFACC OPERATION IRAQI FREEDOM

**Force Development:** Recruit, train, and develop analysts with the objective of supporting the AF operational and warfighting mission requirements

**Operational Experience:** Analysts at Wings, NAFs, MAJCOMs, and Combatant Commands to prepare and train for combat contingency operations

**Warfighting Capability:** Ensure processes, policies, and tools are in place that support development of a quick-turn analysis capability required to support combat operations
Milestones

Integrate Analysts into warfighting staffs

WFHQ Construct
- Mandatory A-9
- Core AOC manning: 1-2 61SXA positions
- Defining A-9: Core manning, Organization, AFOTTPS…
- Help stand up new A-9s

61SXA Guard and Reserve positions to Augment AOC
- Involved in Operations Assessment Task Force
- Other Analyst positions: Wings, Joint, …

As of: 14

Integrity - Service - Excellence
Milestones

Standardizing Deployable Combat Analyst

Combat Analyst UTC

- Standard UTC: 9ASC1, 9ASC5, & 9ASC7
- Standard UTCs used for deployment requirements
- Official AF FAM Posturing & Coding Guidance for 61SXA
- Posture ALL deployable 61SXAs in standard UTCs
- Standardized Equipment

Institutionalize process to meet deployment requirements

- Identify MAJCOM FAMs and POCs
- Formal process to request volunteers
- Schedule across MAJCOMs for AEF deployment taskings
- Deploy civilians to meet some requirements
- Identify units with wartime taskings

- Completed
- In Progress
- Future
AOC exercises

- Identify AOC exercises to support
- Process to augment exercise 61SXA requirements
- Improve Operations Assessment play in exercises

In-Residence Courses

- Identify applicable courses
- Increase available course slots for 61SXA attendance
- Identify relevant Online Resources
- Develop 61SXA specific pre-deployment training

Completed | In Progress | Future
Milestones

Other

Operations Assessment cross talk for 61SX
- Informal process
- AFORS breakout

Reachback process
- Informal
- Formal

- Analyst 101 Course
- Define Analyst Toolkit
- AOC Operations Assessment Tool Development
- Increase UMD Security Clearance requirements

As of:

Integrity - Service - Excellence
Combat Analyst UTC

- 61SX positions in AOC UTCs (7FVX1, 7FVX5)
  - Justification for positions at NAF level
  - Provide core AOC analyst capability

- Develop initial “building block” UTCs
  - Smaller career fields need the flexibility of smaller UTCs
  - Utilize Combat Analysts beyond the AOC
    - JTF, CPA, TFEL like operations
  - Allow limited substitution from other career fields
    - Current requirements can be met within the career field
  - Scientist functional area for coding: “9AS__”

- Combat Analyst UTCs
  - 9ASC1 – Combat Analyst Officer
  - 9ASC5 – Senior Combat Analyst
  - 9ASC7 – Director Combat Analyses
Question: Are CFACC assets postured to support Afghan presidential election security?

Data Req’d: Current beddown, total coalition assets available, capabilities of all assets (surge rates), limfac (tankers), areas of greatest concern

Data Avail: Current beddown, CFACC assets available, speculated tanker support, predicted areas of greatest concern

Analysis:
- Pattern analysis of recent attack trends (Falconview)
- Distances from bases to areas of concern ⇒ vul times

Reporting:
- Compare current situation to anticipated situation
- Provide options to CFACC for courses of action
## Deployed AF Combat Analyst

**OEF, OIF & ONE Support**

<table>
<thead>
<tr>
<th>Program &amp; Contracting Office (PCO)</th>
<th>Multi-National Forces - Iraq</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Support U.S. Embassy in Iraq</strong></td>
<td><strong>Work for C3 Effects – Information Ops</strong></td>
</tr>
<tr>
<td><strong>GS-14: Chief of Strategic Analyses</strong></td>
<td><strong>O-2 : Effects Analyst</strong></td>
</tr>
<tr>
<td><strong>Re-build a country and economy</strong></td>
<td><strong>O-4 &amp; O-5 (1 Year): Effects Analyst</strong></td>
</tr>
<tr>
<td><strong>Outcomes and reprogramming impacts of the $18.4B in reconstruction</strong></td>
<td><strong>Commander’s Assessment Board</strong></td>
</tr>
</tbody>
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<thead>
<tr>
<th>CAOC - Qatar</th>
<th>CONUS Region – Tyndall AFB</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Work for Strategy Div Chief</strong></td>
<td><strong>Work for CONR Assessment Team</strong></td>
</tr>
<tr>
<td><strong>O-3 &amp; O-4 : Ops Assessment</strong></td>
<td><strong>O-3: Operations Assessment</strong></td>
</tr>
<tr>
<td><strong>Assess current aerial strategy</strong></td>
<td><strong>Assess current operations</strong></td>
</tr>
<tr>
<td><strong>MOEs for operational objectives</strong></td>
<td><strong>Homeland Defense</strong></td>
</tr>
<tr>
<td><strong>Combined air support for multinational ground forces and Iraqi government</strong></td>
<td><strong>Assessment that looks at the bigger picture to include all divisions</strong></td>
</tr>
</tbody>
</table>

As of: **Integrity - Service - Excellence**
Conclusion

- WFHQ
  - OR Analysts integrated with warfighting staffs
- Career field Functional Management
  - Combat Analyst trained to meet the COCOM requirements
- Current Deployment Requirements
  - Supporting OEF, OIF & ONE
Questions?
Manpower: 1  AFSC: 061S3A  Grade: O-3

MISCAP: THE COMBAT ANALYST OFFICER (CAO) USES QUANTITATIVE AND QUALITATIVE PROBLEM SOLVING EXPERTISE TO PROVIDE QUICK TURN ANALYSIS FOR OPERATIONAL QUESTIONS AND PROBLEMS. ASSESSES CURRENT OPERATIONS TO FIND TRENDS AND INDICATORS THAT PROVIDE THE DECISION MAKERS WITH CRITICAL INSIGHTS TO DETERMINE AND MOLD FUTURE OPERATIONS. FAMILIAR WITH AIR OPERATIONS CENTER (AOC) PROCESSES AND THE SPECTRUM OF AIR FORCE OPERATIONS. EXPERT IN OPERATIONS ASSESSMENT TECHNIQUES AND TOOLS, CAN INCLUDE: STATISTICS, PROBABILITY MODELS, HEURISTICS, SIMULATION, AND OPTIMIZATIONS. CAN OPERATE WITHIN THE AIR OPERATION CENTER (AOC), COMBINED JOINT TASK FORCE (CJTF), OR OTHER OPERATIONAL ORGANIZATIONS. CAN BE USED TO AUGMENT UTCS 7F VX1 / 5. 61S3A CAN BE SUBSTITUTED WITH 61S4 WITH A SCIENTIFIC ANALYST BACKGROUND AS A 61SXA.
9ASC5 – Senior Combat Analyst

- Manpower: 1  AFSC: 061S4  Grade: O-5

- MISCAP: THE SENIOR COMBAT ANALYST (SCA) PROVIDES THE LEADERSHIP FOR A COMBAT ANALYST TEAM AND/OR IS THE INTERFACE WITH THEATER LEVEL OR OTHER SENIOR-LEVEL STAFF FOR QUANTITATIVE AND QUALITATIVE OPERATIONS ASSESSMENTS. EXPERIENCED IN ANALYZING A WIDE RANGE OF AIR FORCE AND JOINT OPERATIONS. CAN OPERATE WITHIN THE AIR OPERATION CENTER (AOC), COMBINED JOINT TASK FORCE (CJTF), OR OTHER OPERATIONAL ORGANIZATIONS. KNOWLEDGEABLE ON THE APPLICATION OF COMBAT OPERATIONS AND DIRECTS THE EFFORTS OF SUPPORTING COMBAT ANALYST. INTERFACES WITH THE CJTF STAFF, CJFACC, COMAFFOR, THE AOC DIRECTOR, AND/OR OTHER SENIOR-LEVEL STAFF REGARDING ASSESSMENT AND ANALYSIS MATTERS. UTC IS TYPICALLY COMBINED WITH 2 OR MORE UTC 9ASC1. CAN BE USED TO AUGMENT UTCS 7FVX1 / 5. REQUIRED THAT 61S4 TASKED IN THIS UTC MUST HAVE SCIENTIFIC ANALYST BACKGROUND AS A 61S3A. 61S4 CAN BE SUBSTITUTED WITH 61S3A.
9ASC7 – Director Combat Analyses

- Manpower: 1  AFSC: 061S4  Grade: O-6

- MISCAP: THE DIRECTOR COMBAT ANALYSES (DCA) PROVIDES THE LEADERSHIP FOR A COMBAT ANALYST TEAM AND/OR IS THE INTERFACE WITH THEATER LEVEL OR OTHER SENIOR-LEVEL STAFF FOR QUANTITATIVE AND QUALITATIVE OPERATIONS ASSESSMENTS. EXPERIENCED IN ANALYZING A WIDE RANGE OF AIR FORCE, JOINT, AND COMBINED OPERATIONS. CAN OPERATE WITHIN THE AIR OPERATION CENTER (AOC), COMBINED JOINT TASK FORCE (CJTF), OR OTHER OPERATIONAL ORGANIZATIONS. KNOWLEDGEABLE ON THE APPLICATION OF COMBAT OPERATIONS AND DIRECTS THE EFFORTS OF SUPPORTING COMBAT ANALYST. INTERFACES WITH THE CJTF STAFF, CJFACC, COMAFFOR, THE AOC DIRECTOR, AND/OR OTHER SENIOR-LEVEL STAFF REGARDING ASSESSMENT AND ANALYSIS MATTERS. UTC IS TYPICALLY COMBINED WITH 1 UTC 9ASC5 AND 3 OR MORE UTC 9ASC1. CAN BE USED TO AUGMENT UTCS 7FVX1 / 5. REQUIRED THAT 61S4 TASKED IN THIS UTC MUST HAVE SCIENTIFIC ANALYST BACKGROUND AS A 61S3A. DESIRED JSO OR JSO NOMINEE.