

Irregular Warfare II Workshop Military Operations Research Society

Synthesis Group Out Briefing

Chair: Michael W. Garrambone, General Dynamics

Co-Chair: Dr. Michael P. Bailey, MCCDC



3 - 6 February 2009
Davis Conference Center
MacDill AFB, Florida

Agenda



- Introduction
- Tutorial and Plenary Session
- Observations
- Assumptions, Definitions, and Terms
- Key Issues and Discussion Items
- Recommendations



SynGp Members

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Mr. Michael W. Garrambone Dr. Michael P. Bailey

- WG 1. Global Engagement
 - Mr. Tim Hope
 - LTC Clark Heidelbaugh
- WG 2. Stability, Security, Transition, & Reconstruction Ops
 - Mr. Miles "Doug" Edwards
 - Dr. Tom Allen
 - Mr. Billy Sentlinger
- WG 3. Information Ops/Psyops/Social Sciences
 - Mr. Kirk Michealson
 - Dr. Stuart Starr
- WG 4. Counterinsurgency (COIN)
 - COL Jeff Appleget
 - LTC Paul Ewing
- WG 5. Thinking Models About Irregular Warfare
 - Mr. Tom Hughes
 - Ms. Deborah Lott

- ♦ WG Floating Members
 - Mr. Donald Timian
 - Mr. Greg Keethler
 - Mr. Leroy Jackson



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Charter

SynGp Provides

- Workshop oversight and objectivity
- Assistance to working groups in achieving their objectives
- A perspective across working groups
- Insights back to working group and workshop chairs

Synthesize

- Common themes across groups
- Identify trouble spots, missing information
- Highlight gaps between groups and ideas
- Track critical issues of sponsor interest

Provide Overarching Recommendations

- Captures the efforts of five groups
- Identify their high payoff findings
- Summarize ideas and recommended actions



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Tutorial, Plenary, and Keynote Speakers

- Irregular Warfare Joint Operations Concept
 Mr. Jeffery (Gus) Dearolph, Deputy Director Internal SOCOM J10
- Lessons from the Irregular Warfare Methods, Models, Techniques
 COL Jeff Appleget, TRAC
- Summary of Improving Cooperation Among Nations for Irregular Warfare Analysis Workshop Dr. Al Sweetser, Director, OSD-PAE SAC
- Systemic Operational Design
 LTC Reb Yancey, SOCOM SORR-J8-Studies
- Keynote Speaker
 Mr. William J. A. Miller
 Dir, Strategy, Plans, and Policy, SOCOM



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Initial Tutorial Thoughts

- ◆ Very high level of participation ~ 71 attendees
- High level of interest in the subject of IW
- Suggests desire for greater basic understanding
- Greater need to understand the:
 - IW language
 - IW concepts
 - IW players

Tutorials create knowledge and uniformity



Irregular Warfare Joint Operations Concept Mr. Dearolph

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- ◆ There is continuing friction with the IW definition across Services, agencies, interagency, and among allies
- There is a lack of grand strategy and a failure to understand population
- Key IW factors are: indirect, enduring, persistent, proactive, population-centric, respect of legitimate sovereignty linked to over-arching strategy
- Consists of :
 - Key missions (e.g., FID, UW, COIN, CT, Stab Ops)
 - Key activities (e.g., Strategic communications, IO, PSYOPS, Intel, Counter- intel, Support to law enforcement)
- IW Military Leadership
 - JFCOM for General Purpose Forces (GPF)
 - **SOCOM for Special Operations Forces (SOF)**



IW II Lessons from the Irregular Warfare SynGp Methods, Models, Techniques COL Jeff Appleget

- "IW focus is on the population"
- "COIN" is the Key when insurgents exert more influence on local populations than the national government"
- ◆ IWMmAWG Study established a 7-element framework
 - Identified 35 gaps, 34 related to data and social sciences
- Analytical Approach
 - Now, Top-down, Western perspective (DIMEFIL-PMESII)
 - Soon, Bottom-up employing social sciences expertise
 - Track strategic level Methods, models, Tools (MmTs)
- Iterative development of "key data" is central
- Over-all needs
 - Create credible, relevant MmTs to address decision maker issues
 - Make social scientists integral members of the analysis team
- ◆ Continue community-wide dialogue through IW Working Group



Improving Cooperation Among Nations for Irregular Warfare Analysis Workshop (NPS) Dr. Al Sweetser, Director, OSD-PAE SAC

- There is value having international participants from many different nations
- Emphasized importance of "Whole of Government" approach
- Useful to conceptualize the problem as "Complex Adaptive Systems" (e.g., act, react, re-react,...)
- Consider a hybrid approach (e.g., wargame – model – wargame)



IW II Systemic Operational Design (SOD) SynGp LTC Reb Yancey, SOCOM SORR-J8-Studies

- ♦ IW is a "wicked problem"
- Akin to relearning COIN analysis approaches (Vietnam / Iraq)
- SOD employs a structured method of inquiry that enables a commander to:
 - Make sense of a complex situation
 - Capture understanding
 - Share the resulting visualization
- SOD is a method of inquiry, is based on discourse, creates a learning system
- Requires accepting humility and valuing heresy
- Means challenging the information and the boss
- ◆ To deal with a dynamical complex system, one needs to explore the interactions among the key parts ("hermeneutics")



Keynote Speaker Mr. William J. A. Miller, SOCOM Dir, Strategy, Plans, & Policy,

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- "IW is about populations"
- In analyzing IW issues, a Lanchester view is not useful
- "Behave" not kill our way to victory
 Shape vs. exploit, synthesis not analysis, transforming is satisfising whereas solutions are optimizing, presence changes the problem
- Be as "un-wrong" as can be in conceptualizing a global perspective on issues
- Globalization challenges and threats to the US—Migration, Crime, Extremism
- ◆ SOCOM Challenges: Be up-stream (leverage), turn down the heat (affect), engage in dialogue with senior decision makers



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Working Group Observations

- The working groups (WG's) were highly partitioned by their titles and topics areas (tough to find overlap)
- WG's employed from 4 to 9 presentations in their sessions—a total of 30 different workshop presentations
- WG's ranged in size from 16 to 50 members—the "modeling IW WG" had the highest numbers
- WG's recognized that they have more challenges and tasks then they can handle in a three-day workshop
- WG's have heart and intellectual energy but are limited by clock time and "soak time"
- WG's would like to "sit in" on other working groups (series vs. parallel information meetings)



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General Observations

- We are still struggling with the exact meaning and breadth of irregular warfare (bounding and characterization)
- "Models and Tools" do not equal "computer programs and computer models"
- We are not familiar with the agencies that understand or have jurisdiction for DIMEFIL and PMESII
- Wargaming with the right players offers a powerful technique for discovery
- Graphics in a storyboard approach has a prominent place in IW for displaying and understanding influences
- Everyone is talking about data, its definition, its meaning, its form, who is collecting it, processing it, and storing it
- No consensus on what information does exist, should exist or who is or should be responsible—regardless, the complexity of the situation transcends the data
- VV&A is still the topic on IW models and data



Assumptions, Definitions, and Terms*

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- ◆ Line of Effort
- Systemic Operational Design
- Adaptive Learning
- ♦ Holistic Analysis
- Irregular Warfare
- Periodicity of Reframing
- Whole of Government
- Translational Issues
- **♦** . . .

- ◆ SSTRO
- **♦ PMESII**
- **◆ DIMEFIL**
- GPF
- ◆ MIST
- MmT
- NEXUS
- ATLAS

♦ ...

These three* items are needed and are hard to find



Key Issues & Discussion Items (1)

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- ◆ There are no "interagency" people at the workshop and we need input from their areas of expertise
- ◆ We need to invite more people from the Liberal Arts and Social Sciences to help us with our thinking about people/populations
- We need more tools and methods that go beyond the quantifiable aspects of war
- Our current metrics don't capture the qualitative aspects of conflict that commanders need
- We have voids in our data and very little cause and effect data (e.g., temporal effects require years/decades of observations)
- ◆ There is no "owner" of a common lexicon
- We lack sufficient analysts/SMEs with DIMEFIL (Diplomatic, Informational, Military, Economic, Financial, Intelligence, Law Enforcement) experience



Key Issues & Discussion Items (2)

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- Identifying the differences between "indicators" and "effects" and understanding some effects are not quantifiable (e.g., measuring persuasion and influence)
- ◆ MmT is not ready for Prime Time-- there is no SIMTAX for IW, but there needs to be such a taxonomy that describes the characteristics of these models
- Should crime, extremism, and migration be considered as "standard" military problems
- We have not retained our history of IW, how do we bring it back—we need to leverage that operational experience and those earlier insights
- ◆ The value and methodology of reach-back has been questioned as well as the importance of an analyst collecting the data
- ◆ There are different levels of IW that require very different tools



Gaps (1)

- There is a gap between our analytical capability and our commander's operational needs
- The repository of the IW "body of knowledge" has not been clearly identified (IW online Library)
- There is a relational, supportive, and authority gap between the military and "the interagencies" on IW
- We do not understand interagency lines of communications
- We don't understand how to balance government capacity for "restoration of services," security, or economic development
- We do not know the modeling requirements for IW analysis
- Many do not know about IW Community Hubs, Potential Data sources or samples of IW Activities available by Joint Data Support



Recommendations (1)



- Identify, create and sustain credible IW data
 - It will require iteration to decide on the data needed
 - Steps must be taken to characterize the data (e.g., metadata; pedigree) and convert it to meet the needs of the analyst
- Develop a lexicon of key terms
 - Current definitions are not acceptable to the interagency, coalition partners
 - New terms must be developed (e.g., "operations against irregular adversaries" Huba Wass de Czege)
- Continue the dialogue on MmTs to support IW analyses
 - This workshop represents a significant step forward
 - More dialogue is needed w/ whole of government participation
- MORS convene a IW Joint/Special Session at FLVN



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Recommendations (2)

- MORS provide a forum to help organize the needed information
 - Create a common template to compare and contrast key IW models and tools
 - Continue to support efforts to identify key gaps and priorities to guide future actions
- MORS and Sponsors assist in bringing the various IW Communities of Interest (COI) together; e.g.,
 - IW Working Group
 - MEDEA
 - Human, Social Cultural Behavior (HSCB) modeling
 - MORS Social Science Community of Practice (COP)
- Support Service initiatives to put Operations Research Analysts in SOF operational staffs
- Invite more allies and the interagency to these meetings
- Consider MORS IW COP and/or a workshop campaign



Questions?

Thank You
For your
Interest



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Objectives at the Tutorials

- Identify specialized vocabulary (terms of reference)
- Extract the main learning objectives
- Pick out the key points within the presentations
- Look for the burning unresolved issues
- Identify current weak areas of knowledge
- Identify follow-on working groups topics

Tutorials create knowledge and uniformity



Working Group Leadership

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Ms. Renee Carlucci, Deputy Chief, CAA Force Strategy Mr. Donald Timian, Army Test and Evaluation Command

- WG 1. Global Engagement
 - Mr. Andy Caldwell (UK), OSD Policy
 - Col Thomas Feldhausen, USAF, JCS/J5
- WG 2. Stability, Security, Transition, & Reconstruction Ops
 - COL Dean Mengel, CAA
 - Mr. Bill Krondak, TRAC FLVN
- WG 3. Information Ops/Psyops/Social Sciences
 - Mr. Mike Ottenberg, OSD PA&E SAC
 - Ms. Karen Gratten, MCCDC OAD
- WG 4. Counterinsurgency (COIN)
 - Mr. Steve Stephens, MCCDC OAD
 - LTC Tedd Dugone, Joint Staff, J8 WAD
- WG 5. Thinking Models About Irregular Warfare
 - Dr. Bob Sheldon, FS, MCCDC OAD
 - LTC Scott Smith, SOCOM, J8



Purpose, Goals, and Focus



SynGp Purposes:

- For the WG: Attend, observe, assist, influence, & promote
- For the WS: Observe, gather, record, & create information

SynGp Goals:

- Capture information before, across, and between groups
- Synthesize ideas, fuse concepts, shake loose descriptions
- Identify universals, seams, gaps, vocabulary, direction
- Create distillation, clarity, recommendations, documentation

SynGp Focus

- Tutorials, plenary sessions, WG sessions
- Capture the talking and the thinking



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Other Observations

- Discussions indicate someone went point-topoint to get collaboration with a "whole of government" resource
- SOD provides a more structured approach to a wicked problem



Key Issues & Discussion Items (3)

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- The analytical community has only started to do the reaching out to social scientists in new and novel ways
- ◆ How tactical events can cause strategic effects
- Resolving the issue of the "disconnect" when we say "data" and "models" to a social scientist
- How do we open our western philosophical minds to seeing the consequences of our activities in initial or subsequent timeframes
- Choosing the wrong metric will lead you astray and waste your analytical resources



Gaps (2)



◆ The Army does not include SSTRO in its definition of IW although it is present in all aspects of warfare



Key Findings

- There is not a Battlefield Operating System (BOS) type description or functional domain list of data for DIME and PMESII
- Cultural and societal experts are critical to wargaming and so are professional red teams
- We don't know ourselves, that is, all the agencies, jurisdictions, and helping services we need to know



Key Findings 2

 There is no global list for the sources of information for wargaming

- We are paying lip service to bring social and cultural scientists to wargames and to MORS
- Wargames can be used to help identify model capability gaps and provide insights for operational dynamics



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Key Findings

- Very limited attention has yet been paid to coalition (international) wargaming
- Serious difficulties are seen with validity of red/green/? representations (often are blue interpretations of red/green/? behaviors)



Conclusions



- Inadequate representations of red/green/? players, concepts, and behaviors
- The wargaming process has not been formalized for irregular warfare
- Inadequate database of cultural-societal information

