

A Long-Term Counterinsurgency Strategy

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The rapid, decisive campaign conducted against the Taliban by US Special Operations Forces (SOF) in conjunction with the Northern Alliance and supported by US airpower in the opening phases of Operation Enduring Freedom (OEF) captured the attention of military professionals throughout the world—allies and potential adversaries alike. Heralded as a template for future military transformation by the most enthusiastic proponents, even the less sanguine observers were forced to acknowledge an impressive synergy and economy of force in the SOF and airpower combination. Nearly eight years later, former International Security Assistance Forces (ISAF) Commander, General Stanley McChrystal, issued a tactical directive seeking, among other things, to limit the use of Close Air Support (CAS) by NATO forces in Afghanistan.¹ This action followed several high-profile incidences of collateral damage caused by air strikes in support of ISAF forces and signaled a broader shift in theater strategy toward a counterinsurgency (COIN) centric approach similar to that successfully employed in conjunction with the “surge” in Iraq. While comparisons are inevitable, such a strategy needs to address significant additional challenges posed by the unique cultural and geographical characteristics of Afghanistan which could in effect make the restriction of airpower as much a danger to the achievement of strategic objectives as the collateral damage that it seeks to avoid. One prominent dilemma is the central role that SOF continues to play in performing many key strategic functions, such as counterterrorism (CT) and counterinsurgency operations. There is a paradox posed by the fact that the characteristics, which render SOF an ideal choice for Afghanistan’s dispersed and geographically isolated rural insurgency, also

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engender increased reliance upon the mobility, responsiveness, and firepower provided by airpower. This article will examine the unique suitability of SOF to meet strategic objectives in Afghanistan, explore the synergistic relationship between SOF and airpower, and assess the strategic utility of this combat-proven combination in an irregular warfare environment.

Putting the “Special” in Special Operations

Special Operations Forces share a number of uniquely defining qualities which distinguish them from their conventional counterparts. Despite a broad consensus that SOF have a distinct military culture with distinctive capabilities, no universally accepted, definitive work exists codifying the character of special operations. There is, however, a substantial amount of published material on the subject. This article is an attempt to construct a platform for further analysis by synthesizing the key elements of several notable contemporary special operations theorists.

Adaptability, Flexibility, and Versatility

In his analysis of the decisive characteristics of SOF following the now iconic tactical and operational successes of US SOF teamed with the Northern Alliance over Taliban forces in late 2001 and early 2002, Colonel John Jogerst notes “You don’t know what you need until you need it. A wide range of capabilities in effective quantities is a good hedge against tomorrow’s threat.”² Admiral Eric T. Olsen, Commander, United States Special Operations Command (USSOCOM), similarly posits: “We need to be responsive enough to adjust rapidly to what the enemy throws at us, and we need to have the agility to transcend the spectrum of conflict.”³ Colin Gray affirms the innovative nature of special operations, further noting that successful SOF units such as the British Special Air Service have institutionalized the ability to reinvent themselves as national security interests require.⁴ Building upon Gray’s work, Australian Squadron Leader David Jeffcoat identifies “unorthodox means” as one of his proposed characteristics of SOF, which are “required to adapt their approach to each operation and come up ‘with a distinctive theory of victory.’”⁵ In short, SOF team members are traditionally selected for an innate adaptive ability that is further cultivated in training. They are employed with the assumed capability to respond with agility to diverse, unforeseen threats from unpredictable enemies, often employing their own strengths asymmetrically while seeking to deny a similar advantage to their adversaries. Present-day SOF counterinsurgency and counterterrorist operations in Afghanistan embody the

unconventional challenge in which the United States needs to capitalize on the SOF's adaptability, versatility, and flexibility to achieve success.

Speed, Agility, and Stealth

Jeffcoat asserts that unique to SOF is "the expectation of commanders borne out of historical examples of SO [Special Operations] that SF [Special Forces] will invariably achieve relative superiority over a larger enemy and therefore win."⁶ Achievement of tactical surprise is often cited as one of the keys to victory in the face of a numerically superior foe. Specifically, however, in terms of special operations forces themselves it is the characteristics of speed, stealth, and agility (with a healthy dose of technology) which enable this critical principle.⁷ It is the ability of SOF to appear on the battlefield at an unexpected place and time of their choosing which, coupled with an offensive mind-set, enables them to retain the initiative and achieve surprise.

Implicit in the need for speed is the requirement to travel light and leverage technology for mobility and firepower. Of the former, Lieutenant Colonel Eugene McFeely, referencing the counterinsurgency manual, *US Army Field Manual 3-24*, asserts that US forces in Afghanistan "must lighten their combat loads and enforce a habit of speed and mobility to gain maneuver parity with the lightly equipped insurgent."⁸ Jeffcoat articulates the requirement for "high relative speed to swiftly reach the objective despite the actions of the adversary," which, he tellingly adds, "invariably translates to a dependency on aircraft."⁹ Agility, similarly, implies the ability to respond faster than the enemy once engaged. More than heavy conventional forces, SOF can "operate and maneuver in the face of enemy action."¹⁰ Finally, SOF achieve stealth, or the ability to remain undetected by the enemy until the moment of decisive engagement, through the effective application of signature management, optimized by SOF's small footprint and extensive training as well as through dedicated, effective intelligence and "intensive and comprehensive study of their targets."¹¹ Thus, speed, agility, and stealth are critical enablers for SOF in countering the asymmetric advantages of experienced, elusive insurgent fighters, with extensive early warning networks and local terrain knowledge.

Cultural Awareness, Maturity, and Interoperability

Counterinsurgency, together with unconventional warfare (UW), foreign internal defense (FID), counterterrorism, and stability operations comprise irregular warfare (IW), an SOF core competency. The successful prosecution of IW requires what Squadron Leader Jeffcoat refers to as

“assimilation.”¹² He further explains: “Without a high degree of cultural awareness, it is unlikely SF will be able to gain the required level of trust

Future war will include both change and continuity from the past.

and cooperation from sympathetic local elements . .

. .”¹³ In addition to a solid institutional experience base, cultural awareness is

cultivated through training, regional specialization, and habitual international partnerships which focus on international military capacity building in the traditional SOF mission of foreign internal defense. “On a typical day,” notes Admiral Olsen, “the operational forces of the US Special Operations Command can be found in 60 to 70 countries, primarily conducting foreign internal defense and civil affairs operations.”¹⁴

Cultural awareness, and the maturity imparted by the greater age and experience level of the individual special operator (for instance, an average Army Special Forces soldier is nearly 32 years old as compared with 19 years old for the average Marine)¹⁵ combine to enhance effective mission execution in the complex, nuanced COIN environment. US Air Force Major General Charles Dunlap underscores the value of maturity in counterinsurgency, asserting that COIN “is not just manpower-intensive; it requires a particular kind of manpower that is difficult to recruit, train and maintain.”¹⁶ He further notes that while the US Army has continued to meet its recruiting goals despite the strain of a conflict entering its eighth year (2008), it has done so in part by increasing waivers granted for forces without high school diplomas as well as “moral waivers,” for forces with juvenile or criminal records, noting: “While such recruits may make competent general-purpose forces, they are not the prized counterinsurgency professionals described in FM 3-24.”¹⁷ With all respect to General Krulak’s “strategic corporal,” perhaps the “strategic sergeant first class” of a Special Forces Operational Detachment Alpha or the “strategic chief petty officer” of a Navy SEAL team is a better match for the complex challenge of COIN.¹⁸

Additionally, special operations forces exhibit a uniquely high level of interoperability in both the joint and combined force environment. The “jointness” of SOF derives in part from the fact that SOF “depends on a range of specialized military capabilities and assets to achieve their mission.”¹⁹ This, in turn, has led to the recognition that “interoperability comes by interoperating regularly, routinely, and often” with the result that “SOF personnel jointly conduct virtually all training above the individual skill level.”²⁰ Prime examples of habitual training relationships exist between Army Special Forces, Navy SEALs, and Air Force Special Tactics Squadron personnel and key aviation enablers in the

Army's 160th Special Operations Aviation Regiment and the Air Force's 1st Special Operations Wing. Additionally, regular fire support exercises such as *Jaded Thunder* and *Known Battle* fold in conventional aviation and fire support assets from all the services in realistic SOF-centric training scenarios. The end result is a mature, experienced, culturally aware, and interoperable force that is uniquely equipped to perform successfully in a complex operating environment.

Hyper-Competence and Independence

Special operations forces, regardless of service or specialty, are the product of highly selective training and accession processes, often selected from the most successful among the ranks of conventional forces. Service in SOF units is voluntary and selection is a continuous process. It has been said that the only task more difficult than earning a place in special operations is retaining that place. This institutional self-selection, coupled with exceptionally rigorous training standards, combine to produce an environment of hyper-competence, or what Jeffcoat calls "purposefulness," which he defines as the "strong and unrelenting desire to achieve the objective."²¹ Colin Gray regards the assumption of tactical competence among SOF as being "so obvious that it requires no particular emphasis."²²

Another hallmark of SOF related to a high degree of tactical competence is independence. Jogerst asserts that special operators are perhaps uniquely equipped to successfully achieve the ideal of decentralized, or network-distributed mission execution.²³ Combining a high degree of tactical competence, network-distributed command and control, and practiced interoperability with airpower, special forces teams with embedded Air Force air-control elements provide a tactical force with a broad range of skills and the maturity to execute mission orders without detailed oversight."²⁴

In short, special operations forces possess a repertoire of capabilities and attributes that imbues them with a unique strategic utility. "That utility reposes most essentially in two qualities, economy of force and expansion of strategic choice," asserts Colin Gray, adding: "In the most general of terms, special operations forces offer the prospect of a favorably disproportionate return on military investment."²⁵ As of this writing, the United States is entering its tenth year of conflict in Afghanistan amid waning domestic support, increasing economic strain, and increasingly persistent questions about Afghan governmental legitimacy. Presented with a continuum of less than palatable strategic options ranging from the abandonment of regional objectives and a massive counterinsurgency effort requiring burgeoning conventional force levels and nearly open-ended force commitments, the economy of force option would seem to represent the sine qua non for success.

Air Support to Special Operations

Recognition of the utility of airpower to the successful prosecution of irregular warfare dates nearly to the origins of combat airpower itself. A US Air Force-sponsored study by RAND Corporation published in 1964 examined the role of air support in the conduct of counterinsurgency and unconventional warfare and identified the unique challenges posed by the use of airpower in an IW environment:

In the counterinsurgency and unconventional warfare cases where close air support was available, the potential targets were generally small groups of the enemy in areas that also contained friendly civilians, thus constraining close support air attacks to avoid killing, injuring, or alienating civilians.²⁶

With the problem thusly framed, it is useful to examine three key characteristics of airpower which, coupled with advances in technology, tactics, techniques, and procedures (TTPs), have both increased the efficacy of airpower in support of special operations forces and served to mitigate the inherent challenges posed by the application of airpower in an IW environment.

Precision

Perhaps no aspect of modern airpower has received more attention or been the subject of more prolific discussion and publication than the precision of modern air-delivered weapons. Recognition of the revolution of precision in the application of modern airpower has come (if grudgingly) from even the most unlikely sources. In 2008, Human Rights Watch senior military analyst Marc Garlasco admitted that “airstrikes probably are the most discriminating weapon that exists.”²⁷

Most of the relevant discussion of airpower’s precision has centered around the development and proliferation of modern Precision Guided Munitions (PGMs). Arguably beginning with the first combat usage of Paveway I Laser Guided Bombs against the “Dragon’s Jaw” bridge in North Vietnam in 1972, the PGM revolution has continued unabated, finding its most recent expression in the use of Global Positioning System (GPS) aided and Inertial Navigation System (INS) guided weapons such as the Joint Direct Attack Munition (JDAM), which can be employed in any weather condition and with no requirement for the delivery platform to optically acquire the target. Besides delivery accuracy, recent efforts to tailor warhead effects for increased target discrimination have led to the development of low collateral damage warheads.²⁸ Even the creative use of fuse functioning delays on PGMs with conventional high explosive warheads and PGM

guidance kits on inert warheads have been employed to mitigate weapon effects to personnel and structures surrounding legitimate targets. In the case of PGMs, weapon delivery accuracy and warhead discrimination are factors which, in addition to facilitating efficient target destruction, mitigate the risk of fratricide and collateral damage posed by air-delivered weapons. Both are largely characteristics of the weapons.²⁹ As such, both contribute to mission success only if the weapon in question is delivered against the correct target. Equally important, though less often discussed, are concurrent developments in technology and TTPs that facilitate target location, marking, correlation, and confirmation in order to ensure that the correct target is attacked.

While advances in weapons technology have increased the likelihood of desired effects on the target and the mitigation of undesired effects on personnel and structures in proximity to the target, advancements in situational awareness of delivery aircrews, facilitated by these new improvements, have had similar impact by improving the possibility of destroying the correct target. On the technological side of the equation, the proliferation of advanced, high resolution Infrared/Electro-Optical sensors on aircraft have increased the level of image resolution available to aircrews, facilitating better target discrimination, even from tactically significant stand-off ranges. Concurrently, the proliferation of “coordinate seeking” weapons such as JDAM removes the requirement for aircrew to visually acquire the target.³⁰ Increasing availability and usage of Laser Spot Trackers onboard strike aircraft to confirm target location in conjunction with both ground-based and airborne Laser Target Designators used by terminal controllers have significantly enhanced the speed and accuracy of target acquisition and confirmation in addition to their traditional role in guiding laser-guided PGMs.³¹ Perhaps even more significant has been the proliferation of Laser Target Markers (LTMs). Increasingly integral to advanced aircraft targeting pods and almost ubiquitous among ground based Joint Target Acquisition Centers (JTACs) owing to their impressive power to size ratios, LTMs are employed in a similar role to cue aircrews equipped with night vision devices.³² Concurrently, employment of small laptop computer and even personal data assistant (PDA) hosted imagery based precision coordinate generation software have brought similar benefit to the employment of GPS/INS targeted weapons.³³

The net result of these advances in technology and the TTPs that support their effective employment has been an exponential increase in the target discrimination and weapon effectiveness of air-delivered weapons. Coupled with the skill of SOF JTACs—such as US Air Force Combat Controller Teams (CCT) and Tactical Air Control Parties—all facilitated by the level of interoperability previously outlined, the inherent precision of

modern airpower makes a significant contribution to overcoming the daunting challenges in a counterinsurgency environment. First, the precision of modern airpower enables the delivery of timely and accurate overwhelming firepower in support of light, agile forces which, though highly skilled, lack significant organic firepower. Second, precision enables effective and efficient engagement of targets in close proximity to friendly forces and non-combatants while minimizing the risks of fratricide and collateral damage.

Persistence

The second revolution of modern airpower is the revolution of persistence. With advanced expeditionary basing (including sea basing), modern aerial refueling capability, and advancements in aircraft endurance, airpower today is capable of a more profound operational footprint on the battlespace than at any time in its history. Nowhere has the persistence revolution been more apparent than in intelligence, surveillance, and reconnaissance (ISR) aircraft, of both the manned and unmanned varieties. Further, there is perhaps no more poignant example of the impact of persistent ISR than in support of SOF engaged in counterterrorism. In an impressive monograph summarizing the historical development of the manhunting methodology of counter-network operations employed by CT forces, George Crawford of the Joint Special Operations University notes “persistence pays” in the application of the Find-Fix-Finish-Exploit-Analyze targeting cycle employed by CT forces.³⁴ The proliferation of airborne ISR assets in Iraq and Afghanistan has enabled an unprecedented level of “pattern of life” intelligence collection against high value individual (HVI) targets. In fact, ISR in both theaters is quantified in terms of numbers of 24-hour “orbits” of both imagery intelligence and signals intelligence capability, affording the opportunity for a true “unblinking eye” on multiple targets simultaneously.³⁵

In the more indirect role, SOF can use persistent ISR in a force protection role, securing the flanks and acting as a virtual cavalry screen on a 360-degree battlefield consisting of small teams widely dispersed to geographically remote locations conducting rural counterinsurgency operations. In this role, airborne ISR assets can be used for early warning and overwatch, cueing friendly forces to enemy activity and later supporting battle hand-over and target designation to strike aircraft as needed, or even performing limited kinetic strikes from the armed ISR aircraft.

Skeptical of the feasibility of achieving the required force level for a broad, doctrinal counterinsurgency campaign consistent with the 20 to 1,000 troop-to-insurgent ratio suggested by FM 3-24,³⁶ General Dunlap alternatively suggests that the persistence of modern airpower combined with a small SOF footprint on the ground serves as a necessary economy

of force measure in COIN: “The United States has to develop technology capable of substituting for ‘boots-on-the-ground’ in order to provide future decision makers with broader options. Pragmatism drives this approach, not any deficiency in the valor or dedication of US ground forces.”³⁷ Dunlap joins fellow strategist Phillip Meilinger in suggesting that such an SOF and airpower centric approach to COIN “is imperative . . . to completely recast America’s approach to COIN in an effort to achieve ‘politically desirable results with the least cost in blood and treasure.’”³⁸ The smaller footprint of SOF enabled by the persistence of supporting airpower may actually remove a significant source of fuel from an insurgency. Dunlap further supports this observation, contending that “the notion that American COIN or nation-building efforts can be executed by infusing the host state with large numbers of US forces is fundamentally flawed. In fact, the deeply entrenched view of US forces as an occupation force is now the main rallying point for anti-American feelings”³⁹

It is also important to note that persistent airpower can be employed clandestinely and covertly in a permissive COIN environment.⁴⁰ While some of the more obvious examples are clandestine intelligence collection and overwatch of an infiltrating assault force on a clandestine direct action mission, clandestine and covert applications of airpower include persistent on-call “finish” capability for the kinetic time-sensitive targeting of fleeting high-value targets as well. Such covert applications may even occur in areas denied to US ground forces, as in the case of the increasingly publicized and controversial Predator unmanned aerial vehicle (UAV) kinetic strikes in Pakistan’s Federally Administered Tribal Areas. Persistent airborne ISR and strike capability provide a risk-mitigating—and even potentially deniable—means of support to SOF engaged in covert, denied area operations, should the emergence of an especially lucrative target set justify the diplomatic and political risk of such missions.⁴¹

Conversely, the persistence of modern airpower affords significant strategic benefits when overtly employed, as well. General Dunlap asserts that the overt use of persistent ISR has significant psychological impact on the enemy, arguing “airpower can now inflict on insurgents the same kind of disconcerting sense of vulnerability that the enemy sought to impose upon US forces via improvised explosive devices,” perhaps the most iconic embodiments of asymmetry employed in the Iraq and Afghan insurgencies.⁴² But the persistence revolution is not limited to ISR; airpower provides the availability of persistent kinetic effects, as well. In one of numerous accounts, *The New York Times* captures the sense of helplessness of an Afghan insurgent resulting from his encounter with airpower: “We pray to Allah that we have American soldiers to kill . . . [but] . . . these bombs from the sky we cannot fight.”⁴³ In particular, the recent employment of

long-range bombers as general support to on-call close air support assets provides a previously unknown level of persistent firepower to counterinsurgent forces. Combined with regular air tasking order “lines” of direct and general support CAS fighter sorties, the persistence of coalition airpower approaches that of conventional artillery, but with the added firepower and precision of modern air-delivered PGMs.

Reach

The expansive reach of modern airpower constitutes a third revolution in its effectiveness as a strategic enabler. As a powerful mitigator of the perennial twin tyrannies of distance and terrain, the global reach of airpower is perhaps most poignantly demonstrated in the synergy of the SOF-airpower relationship. In this regard, it is airpower’s contribution to SOF’s mobility and access to precision fires which are most notable.

Mobility is more than a mere logistical enabler for SOF. Rather, it defines, in combination with the aforementioned SOF attributes of speed, agility, and stealth, what could more properly be considered a core competency. The mobility afforded to SOF by fixed and rotary-wing aircraft—both organic and inorganic—together with their fire support analogs convert the potential liabilities of “lightness” and small footprint into decisive asymmetric advantages. In addition to maximizing agility and stealth on the ground, the small size and light nature of SOF permit the decisive air movement of entire SOF tactical formations throughout the battlespace. They render practical the existence of a separate organic air arm of specialized SOF specific aircraft belonging to the Air Force Special Operations Command and the Army’s 160th Special Operations Aviation Regiment. These organic air assets enjoy a level of interoperability developed through the aforementioned habitual training and operating relationship with their SOF customers, which enhance the effectiveness of all joint operations and facilitate a level of specialized capabilities unique to SOF, including specialized insertion techniques such as fast-rope helicopter assault and military free-fall parachute operations which uniquely position SOF to maximize the mobility potential of airpower.

With a long history of irregular warfare conducted from the forbidding geographical sanctuary of the Hindu-Kush Mountains which dominate eastern and southern Afghanistan, Afghan insurgents have grown both accustomed to and reliant upon unilateral access to this terrain as an asymmetric advantage over traditionally road-bound, mechanized adversaries. Whether by means of now conventional vertical envelopment by heliborne assault first demonstrated effectively in combat in the Ia Drang Valley in 1965, fast-rope insertion to mountainous objectives without suitable landing

zones (LZs), or one of the specialized variations of military free-fall insertion, SOF supported by organic air mobility and effective multi-source ISR represent a means to significantly neutralize the key insurgent advantage of terrain in Afghanistan. Using suitably tailored SOF elements and radar-equipped aircraft in terrain following flight profiles (even in adverse weather), stand-off ISR for threat and detection avoidance, and offset LZs to minimize auditory and visual signature of the assault force, the preservation of SOF's characteristic stealth can be compounded by the speed and access afforded by air mobility. Together with the increased access provided by air mobility, the small footprint and organic aviation of SOF help to neutralize another asymmetric insurgent advantage: the improvised explosive device (IED). Far less dependent upon road-bound vehicular transport for logistic support than their conventional counterparts, SOF are inherently less susceptible to what has proven statistically to be the deadliest of insurgent tactics first in Iraq and, more recently, in Afghanistan.

In addition to the advantages which mobility has brought to bear against the challenging terrain in Afghanistan, SOF have benefitted from technological advances in PGMs which have extended the reach of effective fire support. The advent of INS/GPS weapons with programmable attack azimuth and impact angle capabilities independent of delivery platform and profile has virtually eliminated the existence of defilade from a fire support perspective.⁴⁴ Thermobaric warheads, now employed in weapons ranging from hand grenades to Hellfire missiles, as well as advanced "penetrator" warheads have combined with the proliferation of targeting quality coordinate generation technologies (including the tactical, handheld variety available to SOF-embedded Air Force Combat Control Teams) to effectively solve even the most challenging targeting problems such as caves, bunkers, and box canyons posed by Afghanistan's forbidding terrain.⁴⁵

In addition to extending the reach of SOF combat power with respect to terrain, airpower, in terms of both mobility and fire support, has recently demonstrated an impressive mastery over imposing distances. In one of the most demonstrative examples of the former, the opening stages of OEF featured historically significant helicopter assaults by SOF based aboard the aircraft carrier USS Kitty Hawk in the Indian Ocean over unprecedented distances against high-value targets in Afghanistan. Similarly, the transcontinental bombing missions of USAF B-2 Spirit bombers from Whiteman Air Force Base in central Missouri to strike targets in Afghanistan has become a strategically emblematic demonstration of the global reach of kinetic airpower. The straightforward nature of such missions belies an equally impressive mastery of logistic and aerial refueling capability. Such examples, combined with carrier-based aircraft as effectively demonstrated by the aforementioned USS Kitty Hawk example, effectively underscore a

diminishing dependence upon access to regional basing which is not trivial. In short, the global reach of airpower provides the ability to deliver significant tactically tailored SOF combat power at the decisive place and time, preserving tactical surprise, and increasingly independent of the tyranny of distance and terrain.

Conclusion

The manifest operational benefits of modern airpower's key characteristics of precision, persistence, and reach have combined with the unique characteristics of SOF to impart a strategically significant synergistic effect. The speed and mobility afforded by the reach of airpower is abetted by the lightness and small footprint of SOF, while its persistence and precision concurrently compensate for the lack of organic mass and firepower engendered by these same characteristics. In other words, airpower, most particularly in the context of its uniquely synergistic relationship with SOF, constitutes perhaps the single most effective asymmetric US advantage in the operational environment of irregular warfare. Though many reasons for the effectiveness of this combination are articulated above, the asymmetric nature of the SOF-airpower combination with respect to COIN in particular is worthy of emphasis, as the nature of the COIN fight is almost by definition permissive with respect to airpower. While COIN presents innumerable difficult political and military challenges on the ground, insurgents by their very nature typically lack the high-end, anti-access capabilities (such as an air force or integrated air defense system) which constitute a credible counter to modern airpower.

While it is both necessary and proper to acknowledge the potential for the deleterious strategic effect of collateral damage incurred through the (often improper) use of airpower to the successful conduct of COIN (exhaustively documented elsewhere), the author's primary contention is that the maturity, interoperability, and tactical competence of SOF combined with on-going technological and procedural innovations effectively mitigates such risk to a degree well below the level of nullifying the constructive contribution of the SOF-airpower team in the calculus of strategic effects. Furthermore, excessive aversion to collateral damage resulting in a denial of effective fire support to coalition forces risks exacting a potentially debilitating cost in US and coalition blood, treasure, and political will. Finally, it is worth noting that technological and procedural advances that contribute to the combat effectiveness of airpower (e.g., the precision revolution) often serve to mitigate the risk of collateral damage caused by airpower, contributing to the likelihood that future prospects for the strategic calculus will continue to improve.

Entering a second decade of war, the United States is faced with the probability of a future characterized by persistent conflict. Unable to challenge America's conventional military strength, adversaries such as al Qaeda and the Taliban in Afghanistan will continue to seek the asymmetry of irregular warfare, and will further seek to open new fronts in a global landscape filled with failed or failing states, rogue states, and ungoverned spaces within states. The global demands of US interests on the military in the "Long War" offer the distinct possibility of exceeding the means available, particularly amid the likelihood of shrinking defense budgets resulting from continued economic strain. Further compounding the problem, potential adversaries will likely be emboldened by the perception of US military overextension. Such an environment will require difficult choices for American policy-makers—choices that will require a potentially painful prioritization of efforts in determining which interests are to be resourced and which interests must conversely be deferred or addressed by other means. Necessarily, this environment will require the extraction of maximum strategic efficiency from the means available. In this regard, the SOF-airpower team provides a uniquely high level of strategic return on investment across the spectrum of irregular warfare which remains unrivaled within the military element of national power.

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27. Josh White, "The Man on Both Sides of the Air War Debate," *The Washington Post*, February 13, 2008, quoted in Charles J. Dunlap, Jr., "Making Revolutionary Change: Airpower in COIN Today," *Parameters* 38, no. 3 (Summer 2008): 53.
28. The BLU-126 has been employed in LGB configuration (as the GBU-51) as well as in a JDAM variant (GBU-38v3/4).
29. However, aircraft integration and delivery profile are also contributing factors.
30. As a counterpoint, it can be effectively argued that the result merely shifts the mechanism of target assurance from visual means to coordinate generation accuracy.
31. Joint Terminal Attack Controllers (JTACs) and Forward Air Controllers (Airborne) [FAC(A)s].
32. A 1 watt LTM, visible from over 5 nautical miles slant range under nominal conditions, is about the size of a "C" cell flashlight.
33. Examples include Precision Strike Suite (for) Special Operations Forces (PSS-SOF) and Precision Fires Image Generator (PFIG).
34. George A. Crawford, *Manhunting: Counter-Network Organization for Irregular Warfare*, (Hurlburt Field, FL: Joint Special Operations University, 2009), 4.
35. Such capability is of course subject to priority of asset allocation, as demand continues to exceed supply of these vital assets.
36. Based on the FM 3-24 ratio and an estimated Afghan population of 29 million, a counterinsurgent force of 580,000 forces would be required.
37. Dunlap, "Making Revolutionary Change: Airpower in COIN Today," 63.
38. Ibid.
39. Ibid.
40. According to joint DOD doctrine, clandestine operations focus on concealment of the operations themselves whereas in covert military operations (Title 10, USC as distinguished from Title 50 Foreign Intelligence authorities) the emphasis is on deniability of association with the US Government.
41. Richard C. Gross, *Different Worlds: Unacknowledged Special Operations and Covert Action*, Strategy Research Project (Carlisle Barracks, PA: US Army War College, March 30, 2009), 5-14.
42. Dunlap, "Making Revolutionary Change: Airpower in COIN Today," 59.
43. Barry Bearak, "A Nation Challenged: Death on the Ground," *The New York Times*, October 13, 2001, quoted in Dunlap, "Making Revolutionary Change: Airpower in COIN Today," 59.
44. Such as JDAM and GBU-39 Small Diameter Bomb (SDB).
45. Such as the BLU-109 and BLU-116.