

# DESERT STORM

## 1990 - 1991



7 August 1990  
Desert Shield Begins

2 August 1990  
Iraq Invades Kuwait

October 1990

"Desert Express"  
Daily delivery of spare parts  
First concept of airlift involving regularly scheduled, dedicated airlift for daily delivery



16 January 1991

Multiple in-air refueling missions enabled the longest combat sortie to date.  
Seven bombers flew more than 74,000 miles and 37+ hours.



Jul 1990 Aug Sep Oct Nov Dec Jan 1991 Feb Mar

8 August 1990  
(B&E) - Desert Control Elements in place in Saudi Arabia  
37 C-17s  
10 C-141s  
10 C-130 Missions



29 November 1990

U.N. Resolution 678  
Authorizes use of force if Iraq does not leave Kuwait  
by 15 January 1991



28 February 1991  
President Bush suspends allied offensive operations

THEN  
NOW



233 K

183 K

Civilians



712 K

486 K

Total Force Airmen



8.6 K

5.5 K

Total Force Aircraft



# Operation Desert Storm Evaluation Of The

**Bruce Pirnie, Rand Corporation**

## **Operation Desert Storm Evaluation Of The:**

**Operation Desert Storm** DIANE Publishing Company, 1996-11 Operation Desert Storm was primarily a sustained 43 day air campaign by the U S and its allies against Iraq between Jan 17 1991 and Feb 28 1991 It was the first large employment of U S air power since the Vietnam War and by some measures it was the most successful war fought by the U S in the 20th century The main ground campaign occupied only the final 100 hours of the war This report is a comprehensive evaluation of the use and effectiveness of the various aircraft munitions and other weapon systems used in this victorious air campaign

**Operation Desert Storm** Kwai-Cheung Chan, 1998-03 This is the unclassified version of a classified report 85% of the original classified material is presented in this report Addresses the use and performance of aircraft munitions and missiles employed during the air campaign the validity of DoD and manufacturer claims about weapon systems performance particularly those systems utilizing advanced technology the relationship between cost and performance of weapon systems and the extent that air campaign objectives were met Discusses LGB accuracy F 117 and TLAM effectiveness IADS capabilities target sensor technologies combat support platforms and more [Operation Desert Storm evaluation of the air campaign : report to the Ranking Minority Member, Committee on Commerce, House of Representatives / United States General Accounting Office, 1997](#) [Operation Desert Storm](#) United States. General Accounting Office, 1996

**Operation Desert Storm** , 1997 [Operation Desert Storm. Evaluation of the Air War](#) , 1996 This report evaluates the use and effectiveness of the various aircraft munitions and other weapon systems used in the victorious air campaign in Operation Desert Storm in order to aid the Congress in future procurement decisions Over 5 years ago the United States and its coalition allies successfully forced Iraq out of Kuwait The performance of aircraft and their munitions cruise missiles and other air campaign systems in Desert Storm continues to be relevant today as the basis for significant procurement and force sizing decisions For example the Department of Defense DOD Report on the Bottom Up Review BUR explicitly cited the effectiveness of advanced weapons used in Desert Storm including laser guided bombs LGBs and stealth aircraft as shaping the BUR recommendations on weapons procurement

**Operation Desert Storm** , 1997 This report is the unclassified version of a classified report that we issued in July 1996 on the Operation Desert Storm air Campaign The Department of Defense DoD reevaluated the security classification of the original report and as a result about 85 percent of the material originally determined to be classified has subsequently been determined to be unclassified and is presented in this report The data and findings in this report address 1 the use and performance of aircraft munitions and missiles employed during the air campaign 2 the validity of DOD and manufacturer claims about weapon systems performance particularly those systems utilizing advanced technology 3 the relationship between cost and performance of weapon systems and 4 the extent that Desert Storm air campaign objectives were met [Operation Desert Storm](#) , 1997 [Operation Desert Storm](#) National Security and International Affairs Division, 1996 This study responds to your request that we comprehensively evaluate the

use and effectiveness of the various aircraft munitions and other weapon systems used in the victorious air campaign in Operation Desert Storm in order to aid the Congress in future procurement decisions P 1 OPERATION DESERT STORM: EVALUATION OF THE AIR CAMPAIGN... 158928, B-276599... U.S. GAO... JUNE 12, 1997 United States. General Accounting Office, 1998\*

Indexes for Abstracts of Reports and Testimony ,1998 **Blitzkrieg to Desert Storm** Robert Michael Citino, 2004 When Germany launched its blitzkrieg invasion of France in 1940 it forever changed the way the world waged war Although the Wehrmacht ultimately succumbed to superior Allied firepower in a two front war its stunning operational achievement left a lasting impression on military commanders throughout the world even if their own operations were rarely executed as effectively Robert Citino analyzes military campaigns from the second half of the twentieth century to further demonstrate the difficulty of achieving decisive results at the operational level Offering detailed operational analyses of actual campaigns Citino describes how UN forces in Korea enjoyed technological and air superiority but found the enemy unbeatable provides analyses of Israeli operational victories in successive wars until the Arab states finally grasped the realities of operational level warfare in 1973 and tells how the Vietnam debacle continued to shape U S doctrine in surprising ways Looking beyond major power conflicts he also reveals the lessons of India s blitzkrieg like drive into Pakistan in 1971 and of the senseless bloodletting of the Iran Iraq War Citino especially considers the evolution of U S doctrine and assesses the success of Desert Storm in dismantling an entrenched defending force with virtually no friendly casualties He also provides one of the first scholarly analyses of Operation Iraqi Freedom showing that its plan was curiously divorced from the realities of military history grounded instead on nebulous theories about expected enemy behavior Throughout Citino points to the importance of mobility especially mobilized armor in modern operational warfare and assesses the respective roles of firepower training doctrine and command and control mechanisms Brimming with new insights Citino s study shows why technical superiority is no guarantee of victory and why a thorough grounding in the history of past campaigns is essential to anyone who wishes to understand modern warfare Blitzkrieg to Desert Storm provides that grounding as it addresses the future of operational level warfare in the post 9 11 era

**Aviation Week & Space Technology** ,1991 **Military Medicine** ,1995 **Toxicological Profile for Fuel Oils** ,1995 **Government Executive** ,2003 *Defense for a New Era* Les Aspin, William L. Dickinson, 1992 The House of Representatives official report on Operation Desert Storm Defense for a New Era discloses what went right what went wrong and what was learned for tomorrow s defense planning and budgets It is the first such congressional postwar analysis ever published With responsibility to go far beyond the media reports the House Armed Services Committee interviewed nearly a thousand participants while thoroughly scrutinizing the coalition victory over Iraq The culmination of that wide ranging analysis this book provides unique insights into such crucial topics as personnel planning and deployment the bombing and ground campaigns the role of high technology logistics communications and intelligence It is a tough bipartisan evaluation that leads to provocative suggestions for future defense in a rapidly

changing world    Analysis of Special Operations Forces in Decision Aids Bruce Pirnie, Rand Corporation, 1994 This Note records work accomplished during Phase 1 of the project Analysis of Special Operations Forces Decision Aids The objective of this project is to recommend ways in which the capabilities and contributions of special operations forces SOF can be better represented in decision aids that support the defense planning programming and budgeting process Phase 1 includes two tasks Task 1 required RAND to discern the issues central to SOF analysis The results of Task 1 were briefed to U S Special Operations Command staff in October 1991 They are presented here in a condensed form    **Air Power** Stephen Budiansky, 2004 With Air Power a gifted writer pens an epic up to the minute history of the airplane in combat the pilots the strategists the weaponry and the high tech battles they increasingly dominate    *Agard Index of Publications, 1992-1994*, 1995

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web first off in the peppered moth example the dark allele is dominant just wanted to clear that up before going further

usually i would say no the recessive allele cannot become the dominant one it may seem so due to natural selection  
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web birdseye view instructions open the simulation and play the role of the bird in both the dark and the light forest try to behave as a bird would behave choosing the moths that are the most obvious at the end of each simulation record the percent of moths captured in the table below percent dark moths percent light moths before after

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web the only factor different between the two types of moths is the color of the wings your role in the simulation is that of a predator guide the bird with the mouse to the moths click on the moth with the mouse to eat the moth every time you eat a moth you will hear the crunch of an exoskeleton if you miss the moth you will hear the bird call

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