



# Long Range Ballistic Missiles

**Wenbin Ji**



## **Long Range Ballistic Missiles:**

*Long-range Ballistic Missiles* Eric Burgess, 1961      *Long-Range Ballistic Missile Defense in Europe* Steven A. Hildreth, 2007 Successive U S administrations have urged the creation of an anti missile system to protect against threats from rogue states The Bush Administration believes that North Korea and Iran are strategic threats and questions whether they can be deterred by conventional means The Administration has built long range missile defense bases in Alaska and California to protect against North Korean missiles The system has been tested with mixed results and questions have been raised about its effectiveness The Administration has proposed deploying a ground based mid course defense GMD element of the larger Ballistic Missile Defense System BMDS in Europe to defend against the threat of long range missiles from Iran The system would include 10 interceptors in Poland a fixed radar installation in the Czech Republic and another forward deployed radar elsewhere in the region but closer to Iran Deployment of the European GMD capability is scheduled to be completed by 2013 at a cost of 4.04 billion      The Development of Ballistic Missiles in the United States Air Force, 1945-1960 Jacob Neufeld, 1990 Following World War II the onset of nuclear weapons long range jet bombers and ballistic missiles radically changed American foreign policy and military strategy The United States Air Force led by men of far sighted vision and uncommon dedication accepted the challenge of organizing and leading a massive research and development effort to build ballistic missiles In the quarter of the century since these weapons have constituted one of the tree legs of the strategic triad the basis of America's strategy of deterring nuclear war yet they have received less attention from the public and within the Air Force than the more glamorous manned bombers of the Strategic Air Command or the missile launching submarines of the U S Navy This volume attempts to correct the imbalance by telling the story of development of Air Force ballistic Missiles It concentrates on the first generation of ballistic missiles the intercontinental Atlas and Titan and the intermediate range Thor Although the effort to develop rockets has a longer history than commonly assumed the modern history spans the relatively short era from 1945 to 1960 During this brief interval missiles advanced from drawing board to alert status where the next generation now remains poised to deter war      **Conventional Prompt Global Strike (PGS) and Long-Range Ballistic Missiles (BM)** Amy F. Woolf, 2011-08 Contents 1 Intro 2 Background Rationale for the PGS Mission PGS and the U S Strategic Command Potential Targets for the PGS Mission Conventional BM and the PGS Mission 3 Plans and Programs Navy Programs Reentry Vehicle Research Conventional Trident Modification Sub Launched Intermediate Range BM Air Force Programs The FALCON Study Reentry Vehicle Research and Warhead Options Missile Options Defense Wide Conventional PGS The Conventional Strike Missile Hypersonic Test Vehicle Army Advanced Hypersonic Weapon ArcLight 4 Issues for Congress Assessing the Rationale for CPGS Reviewing the Alternatives Arms Control Issues A print on demand report      Conventional Prompt Global Strike and Long-range Ballistic Missiles Congressional Research Service, 2015-02-06 Conventional prompt global strike CPGS weapons would allow the United States

to strike targets anywhere on Earth in as little as an hour This capability may bolster U S efforts to deter and defeat adversaries by allowing the United States to attack high value targets or fleeting targets at the start of or during a conflict Congress has generally supported the PGS mission but it has restricted funding and suggested some changes in funding for specific programs CPGS weapons would not substitute for nuclear weapons but would supplement U S conventional capabilities They would provide a niche capability with a small number of weapons directed against select critical targets Some analysts however have raised concerns about the possibility that U S adversaries might misinterpret the launch of a missile with conventional warheads and conclude that the missiles carry nuclear weapons The U S Department of Defense DOD is considering a number of systems that might provide the United States with long range strike capabilities The Air Force and Navy have both considered deploying conventional warheads on their long range ballistic missiles The Navy sought to deploy conventional warheads on a small number of Trident II submarine launched ballistic missiles In FY2008 Congress rejected the requested funding for this program but the Navy has continued to consider the possibility of deploying intermediate range technologies for the prompt strike mission The Air Force and the Defense Advanced Research Projects Agency DARPA are developing a hypersonic glide delivery vehicle that could deploy on a modified Peacekeeper land based ballistic missile a system known as the conventional strike missile CSM In FY2008 Congress created a single combined fund to support research and development for the CPGS mission Congress appropriated 65 4 million for this program in FY2014 and 95 6 million in FY2015 the Obama Administration has requested 78 8 million for FY2016 When Congress reviews the budget requests for CPGS weapons it may question DOD s rationale for the mission reviewing whether the United States might have to attack targets promptly at the start of or during a conflict when it could not rely on forward based land or naval forces It might also review whether this capability would reduce U S reliance on nuclear weapons or whether as some critics have asserted it might upset stability and possibly increase the risk of a nuclear response to a U S attack This risk derives in part from the possibility that nations detecting the launch of a U S PGS weapon would not be able to determine whether the weapon carried a nuclear or conventional warhead Congress has raised concerns about this possibility in the past While most analysts expected the Air Force to take the lead in deploying a hypersonic delivery system on a modified ballistic missile a concept known as the conventional strike missile CSM tests of the hypersonic vehicle known as the HTV 2 have not succeeded An alternative glider known as the AHW may be deployed on missiles based at sea Congress may review other weapons options for the CPGS mission including bombers cruise missiles and possibly scramjets or other advanced technologies Warheads deployed on boost glide systems would not be affected by the 2010 New START Treaty because these are new types of strategic offensive arms But those deployed in existing types of reentry vehicles on existing types of ballistic missiles would count against the treaty limits This report will be updated as needed

*Conventional Prompt Global Strike and Long-Range Ballistic Missiles* Congressional Research Service, 2017-02-13

Conventional prompt global strike CPGS

weapons would allow the United States to strike targets anywhere on Earth in as little as an hour. This capability may bolster U.S. efforts to deter and defeat adversaries by allowing the United States to attack high value targets or fleeting targets at the start of or during a conflict. Congress has generally supported the PGS mission but it has restricted funding and suggested some changes in funding for specific programs. CPGS weapons would not substitute for nuclear weapons but would supplement U.S. conventional capabilities. They would provide a niche capability with a small number of weapons directed against select critical targets. Some analysts however have raised concerns about the possibility that U.S. adversaries might misinterpret the launch of a missile with conventional warheads and conclude that the missiles carry nuclear weapons. The U.S. Department of Defense (DOD) is considering a number of systems that might provide the United States with long range strike capabilities. The Air Force and Navy have both considered deploying conventional warheads on their long range ballistic missiles. The Navy sought to deploy conventional warheads on a small number of Trident II submarine launched ballistic missiles. In FY2008 Congress rejected the requested funding for this program but the Navy has continued to consider the possibility of deploying intermediate range technologies for the prompt strike mission. The Air Force and the Defense Advanced Research Projects Agency (DARPA) are developing a hypersonic glide delivery vehicle that could deploy on a modified Peacekeeper land based ballistic missile, a system known as the conventional strike missile (CSM). In FY2008 Congress created a single combined fund to support research and development for the CPGS mission. Congress appropriated 65.4 million for this program in FY2014, 95.6 million in FY2015 and 88.7 million in FY2016. The Obama Administration has requested 181.3 million for FY2017. When Congress reviews the budget requests for CPGS weapons it may question DOD's rationale for the mission, reviewing whether the United States might have to attack targets promptly at the start of or during a conflict when it could not rely on forward based land or naval forces. It might also review whether this capability would reduce U.S. reliance on nuclear weapons or whether, as some critics have asserted, it might upset stability and possibly increase the risk of a nuclear response to a U.S. attack. This risk derives in part from the possibility that nations detecting the launch of a U.S. PGS weapon would not be able to determine whether the weapon carried a nuclear or conventional warhead. Congress has raised concerns about this possibility in the past. While most analysts expected the Air Force to take the lead in deploying a hypersonic delivery system on a modified ballistic missile, a concept known as the conventional strike missile (CSM), tests of the hypersonic vehicle known as the HTV-2 have not succeeded. An alternative glider known as the AHW may be deployed on missiles based at sea. Congress may review other weapons options for the CPGS mission including bombers, cruise missiles and possibly scramjets or other advanced technologies. Warheads deployed on boost glide systems would not be affected by the 2010 New START Treaty because these are new types of strategic offensive arms. But those deployed in existing types of reentry vehicles on existing types of ballistic missiles would count against the treaty limits. This report will be updated as needed.

**Conventional Warheads for Long-Range Ballistic Missiles**, 2009. The United States has

deployed long range ballistic missiles in its strategic offensive nuclear forces for more than 40 years Recently some have proposed that the United States deploy conventional warheads on these missiles This would provide the United States with the ability to strike promptly anywhere in the world regardless of the presence of overseas bases or nearby naval forces The Air Force and Navy have both studied the possible deployment of conventional warheads on their long range ballistic missiles The Navy sought funding in FY2003 and FY2004 for research into a reentry vehicle that would be able to maneuver when approaching its target The FY2007 Defense Budget requested 127 million to pursue the deployment of conventional warheads on Trident missiles but the 109th Congress rejected most of this request the FY2008 budget requests 162.4 million The Air Force is pursuing with DARPA research into a number of technologies that might enhance the U S long range strike capability In particular it is developing a hypersonic glide vehicle known as the Common Aero Vehicle CAV that could carry conventional munitions on modified Minuteman II or Peacekeeper missiles or it could deploy these missiles with more familiar conventional warheads This effort now known as the Conventional Strike Missile CSM could serve as a follow on to the conventional Trident modification The 110th Congress is likely to review these programs again when addressing the FY2008 budget request Many have expressed concerns about the possibility that other nations such as Russia or China might misinterpret the launch of a conventionally armed ballistic missile and conclude that they are under attack with nuclear weapons The Air Force has outlined a number of measures that might reduce this risk It plans to base these missiles along the U S coast far from bases with nuclear armed ballistic missiles It also would use consultations notifications and inspections to inform others of the difference between conventional and nuclear ballistic missiles But although these measures could address some of the concerns they are not likely to eliminate the risks of misunderstandings particularly if the United States used these missiles on short notice in a crisis The Navy would not segregate its conventional missiles but would deploy them on submarines that also carry nuclear warheads but it could still notify Russia or other nations to mitigate the possibility of misunderstandings Long range ballistic missiles can bring unique capabilities to the PGS mission But these missiles are only uniquely capable if the United States must attack promptly or within hours of the start of an unanticipated conflict In any other circumstance the United States is likely to have the time to move its forces into the region Hence when deciding to fund the development of conventional warheads for long range land based or sea based missiles and whether to deploy conventional ICBMs Congress may review whether the benefits brought by these systems outweigh the risks of misunderstandings arising from their use This report will be updated as needed

**The Flight Environment of**

**Long-range Ballistic Missiles and Glide Vehicles** Kurt R. Enkenhus, 1959 The flow conditions encountered in the flight of long range ballistic missiles and glide vehicles are reviewed Flow parameters were calculated using the flight trajectory equations of Eggers Allen and Niece with a simplified atmospheric model Graphs are given indicating the relationships of aerodynamic drag and heating real gas effects and rarefied gas phenomena to vehicle trajectories The vehicle trajectories in

turn are approximately determined by a few fundamental parameters such as the range vehicle weight drag coefficient and in the case of glide vehicles the lift drag ratio It is concluded that rarefied gas effects are dominant in the decay of satellite orbits but are of little importance in most surface to surface missions The most severe environmental conditions are encountered in hypersonic continuum flow

**Deadly Arsenals** Joseph Cirincione, Jon B. Wolfsthal, Miriam Rajkumar, 2005  
Deadly Arsenals provides the most up to date and comprehensive assessment available on global proliferation dangers with a critical assessment of international enforcement efforts An invaluable resource for academics policymakers students and the media this atlas includes strategic and historical analysis maps charts and graphs of the spread of nuclear chemical and biological weapons and missile delivery systems descriptions of the weapons and regimes and policies to control them and data on countries that have wanted or have given up weapons of mass destruction A Choice outstanding academic title from one of the premier nonproliferation research teams The new edition addresses the recent dramatic developments in Iran Iraq Libya North Korea and the nuclear black market analyzing strategic and policy implications Contents Part 1 Assessments and Weapons Part 2 Declared Nuclear Weapon States Part 3 Non NPT Nuclear Weapon States Part 4 The Two Hard Cases North Korea and Iran Part 5 Proliferation Success

*A Method for Simulating the Atmospheric Entry of Long-range Ballistic Missiles* A. J. Eggers, 1955 Abstract It is demonstrated with the aid of similitude arguments that a model fired from a hypervelocity gun upstream through a special supersonic nozzle should undergo motion and experience aerodynamic heating and resulting thermal stresses like those encountered by a long range ballistic missile entering the earth's atmosphere This combination of hypervelocity gun and supersonic nozzle is therefore termed an Atmospheric Entry Simulator

**Findings and Conclusions of the Commission to Assess the Ballistic Missile Threat to the United States** United States.

Congress. House. Committee on National Security, 1998

**Ballistic Missile Defense** Ayoub Vermeirsch, 2013 The ballistic missile threat is increasing both quantitatively and qualitatively and is likely to continue to do so over the next decade Current global trends indicate that ballistic missile systems are becoming more flexible mobile survivable reliable and accurate while also increasing in range A number of states are also working to increase the protection of their ballistic missiles from pre launch attack and to increase their effectiveness in penetrating missile defences Several states are also developing nuclear chemical and or biological warheads for their missiles Such capabilities could be significant sources of military advantage during a conflict But they may be equally significant in times of relative peace when they undergird efforts to coerce states near and far Regional actors such as North Korea and Iran continue to develop long range missiles that will be threatening to the United States There is some uncertainty about when and how this type of intercontinental ballistic missile ICBM threat to the U S homeland will mature but there is no uncertainty about the existence of regional threats They are clear and present The threat from short range medium range and intermediate range ballistic missiles SRBMs MRBMs and IRBMs in regions where the United States deploys forces and maintains security relationships is growing

at a particularly rapid pace This book provides an overview of select issues and policies of the ballistic missile defence program **The Development of Ballistic Missiles in the United States Air Force 1945-1960** Office of Air Force History, U.S. Air Force, 2015-01-29 Following World War II the onset of nuclear weapons long range jet bombers and ballistic missiles radically changed American foreign policy and military strategy The United States Air Force led by men of far sighted vision and uncommon dedication accepted the challenge of organizing and leading a massive research and development effort to build ballistic missiles In the quarter of a century since these weapons have constituted one of the three legs of the strategic triad the basis of America s strategy of deterring nuclear war yet they have received less attention from the public and within the Air Force than the more glamorous manned bombers of the Strategic Air Command or the missile launching submarines of the U S Navy This volume attempts to correct the imbalance by telling the story of the development of Air Force ballistic missiles It concentrates on the first generation of ballistic missiles the intercontinental Atlas and Titan and the intermediate range Thor Although the effort to develop rockets has a longer history than commonly assumed the modern history spans the relatively short era from 1945 to 1960 During this brief interval missiles advanced from drawing board to alert status where the next generation now remains poised to deter war The author describes the difficulties involved in the technological competition with the Soviets to be first to develop and deploy a ballistic missile force With innovative leadership the Air Force succeeded also in overcoming conflict with the Army and Navy budgetary constraints administrative complications and of course formidable engineering problems Jacob Jack Neufeld has done a thoughtful thorough job of research in an immense amount of documentation He came to the task with broad experience in the subject matter He first joined the history program at Eighth Air Force Westover Air Force Base Massachusetts his initial assignment was to cover the command s ICBMs including the Titan II and Minuteman in the annual history When he came to Washington and joined the Office of Air Force History in 1970 he produced monographs on missiles and space He also had other diverse assignments usually in the area of the history of research development and technology generally Before long he earned a well deserved reputation as an expert in these fields In the course of his extensive research Mr Neufeld also met and interviewed many of the leading people involved in Air Force science and technology Although the development of ballistic missiles is largely an administrative history it is also the story of the herculean efforts of several key individuals The effort could not have succeeded as it did without the fortuitous appearance on the scene of Trevor Gardner Gen Bernard A Schriever and Dr John von Neumann How these men conceptualized promoted and directed the program forms the basis of the story Additionally the development of ballistic missiles revolutionized the way the Air Force conducted research and development having a profound and lasting effect on how the service acquired weapons of all types Mr Neufeld s fascinating history details these important changes in the process of relating how the service conceived developed and brought into the arsenal one of the most revolutionary weapons in the long history of warfare Compilation of Hearings on



National Security Issues United States. Congress. Senate. Committee on Governmental Affairs. Subcommittee on International Security, Proliferation, and Federal Services,1998      **Conventional Prompt Global Strike and Long-range Ballistic Missiles** Amy F. Woolf,2017      A Day in the Life of the BMDs ,      **Missile Proliferation in the Information Age** United States. Congress. Senate. Committee on Governmental Affairs. Subcommittee on International Security, Proliferation, and Federal Services,1997      **Missile defense additional knowledge needed in developing system for intercepting longrange missiles.** ,      The U. S. Military's Force Structure: A Primer Congress, Congressional Budget Office (U.S.),2016-08-16 A Detailed Military Spending Cost Analysis by the CBO to Better Inform Policymakers and the Public In this report the Congressional Budget Office CBO analyzes the structure and cost of the military from the perspective of major combat units such as Army brigades Navy aircraft carrier strike groups Marine Corps task forces and Air Force squadrons CBO allocates most of the O S budget and DoD s total number of military personnel among major combat units and their associated support units and overhead activities to provide a clearer picture of the size and cost of the major elements of the military s force structure Such information can help policymakers evaluate proposals to change the structure or budget of the armed forces and better inform the general public Tables and Figures including illustrations of equipment personnel and other data are included to provide an easy method to understand this topic Related products Other reports produced by the U S Congressional Budget Office CBO can be found here <https://bookstore.gpo.gov/agency/237> Paid to Perform Aligning Total Military Compensation With Talent Management can be found here <https://bookstore.gpo.gov/products/sku/008/000/01160/5> A Hard Look at Hard Power Assessing the Defense Capabilities of Key U S Allies and Security Partners can be purchased here <https://bookstore.gpo.gov/products/sku/008/000/01158/3> Gold Blood and Power Finance and War Through the Ages is available for purchase here <https://bookstore.gpo.gov/products/sku/008/000/01157/5> Do Fewer Resources Mean Less Influence A Comparative Historical Case Study of Military Influence in a Time of Austerity can be found here <https://bookstore.gpo.gov/products/sku/008/000/01101/0>      **Joint Force Quarterly** ,2008

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