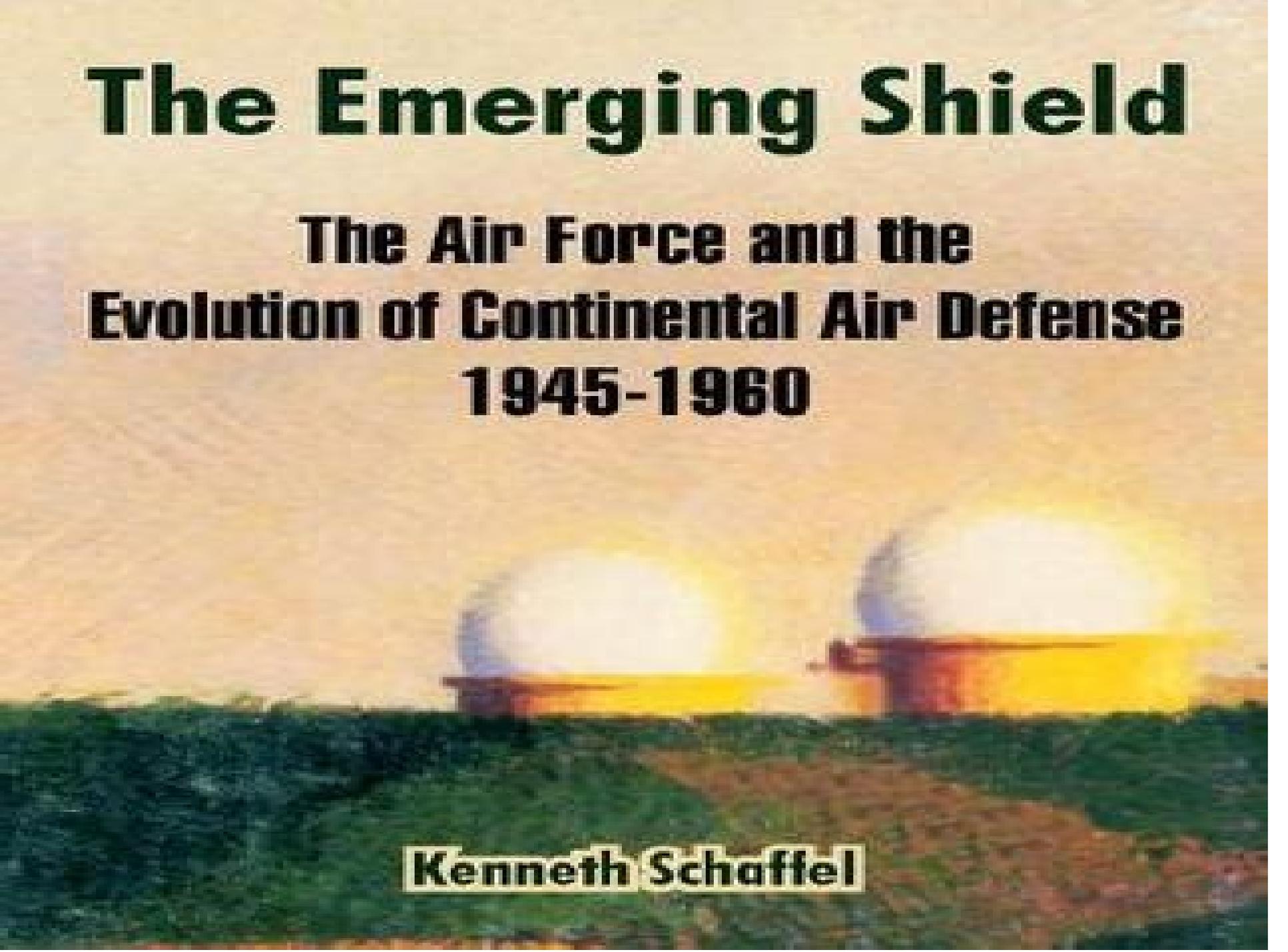


# **The Emerging Shield**

**The Air Force and the  
Evolution of Continental Air Defense  
1945-1960**

**Kenneth Schaffel**

The background of the slide features a photograph of two large, white, dome-shaped structures, likely radar or missile launchers, situated on a grassy field. The sky is a warm, orange-hued sunset or sunrise, and the structures are illuminated from below, creating a bright glow. The overall scene is peaceful yet evokes a sense of strategic defense.

# Emerging Shield

**Guillaume Favre**



## **Emerging Shield:**

**The Emerging Shield** .: Kenneth Schaffel,1991      **The Emerging Shield** Kenneth Schaffel,1991      *The Emerging Shield* Kenneth Schaffel,2015-09-16 In the 1950s the United States Air Force led the way in building continental air defenses to protect the nation against bomber attack By the end of that decade the United States and Canada deployed a warning network of ground based radars extending from the United States southern borders to the arctic tundra a fleet of airborne early warning planes naval radar picket ships radar platforms the Texas Towers fastened to the ocean floor in the Atlantic Ocean and a civilian corps of ground observers Once warning of approaching enemy bombers had been received the military forces of the United States and Canada were prepared to unleash against the invader an arsenal of weapons that included fighter interceptors equipped with lethal air to air missiles antiaircraft artillery and short and long range surface to air missiles some nuclear tipped The whole system was coordinated through a technologically advanced computer oriented command and control system the first of its kind ever deployed The story of the rise of air defense in the United States after World War II is complex and this volume does not presume to be a complete history of the subject It focuses on the U S Air Force s predominant role in defense of the continental United States against manned bomber attacks Although the U S Army the U S Navy and the Canadian Air Force contributed resources to the mission the U S Air Force had primary responsibility for research development and deployment of most of the systems and weapons The outstanding exception was antiaircraft artillery the province of the U S Army In some respects the Army can be said to have fielded a complementary air defense system separate from that of the Air Force This book however examines the Army s part in the mission only as it concerns roles and missions controversies with the Air Force The volume begins with the U S Army Air Service s involvement with air defense in World War I and traces the story through to the late 1950s and early 1960s At that time the intercontinental ballistic missile supplanted the bomber as the most dangerous long range threat to North America precipitating a dramatic decline in bomber defenses over the next two decades A number of important themes emerge the development of technology particularly for command control and communications systems roles and missions debates interpretations and analysis of the threat and Air Force theories and approaches to offensive and defensive strategic warfare The last is by far the most pervasive theme      [The Emerging Shield](#) ,1991      **Searching the Skies** David Frank Winkler,1997 Originally published in 1997 this hitherto hard to find study examines the impact that construction of radar stations and command facilities had on the American landscape With accompanying black and white photographs throughout the author explores patterns themes and trends that created influenced and formed the backdrop to the Cold War defense radar program This study provides an in depth look at the radar systems a state by state listing of the infrastructure that supported the systems and an extensive bibliography This historic content can be used to understand and evaluate properties associated with America s detection and command and control system      **Air War Over America** Leslie Filson,2003 Describes America s air sovereignty mission

in the wake of the terrorist attacks of September 11 2001 Super Bomb Ken Young, Warner R. Schilling, 2020-02-15 Super Bomb unveils the story of the events leading up to President Harry S Truman's 1950 decision to develop a super or hydrogen bomb That fateful decision and its immediate consequences are detailed in a diverse and complete account built on newly released archives and previously hidden contemporaneous interviews with more than sixty political military and scientific figures who were involved in the decision Ken Young and Warner R Schilling present the expectations hopes and fears of the key individuals who lobbied for and against developing the H bomb They portray the conflicts that arose over the H bomb as rooted in the distinct interests of the Atomic Energy Commission the Los Alamos laboratory the Pentagon and State Department the Congress and the White House But as they clearly show once Truman made his decision in 1950 resistance to the H bomb opportunistically shifted to new debates about the development of tactical nuclear weapons continental air defense and other aspects of nuclear weapons policy What Super Bomb reveals is that in many ways the H bomb struggle was a proxy battle over the morality and effectiveness of strategic bombardment and the role and doctrine of the US Strategic Air Command *Michael Snow* Annette Michelson, Kenneth White, 2019-11-05 Essential texts on the work of the influential artist Michael Snow essays and interviews spanning more than four decades Few filmmakers have had as large an impact on the recent avant garde film scene as Canadian Michael Snow b 1928 His works in a range of media film installation video painting sculpture sound photography drawing writing and music address the fundamental properties of his materials the conditions of perception and experience questions of authorship in technologically reproducible media and techniques of translation through written and pictorial representation His film *Wavelength* 1967 is a milestone of avant garde cinema and possibly the most frequently discussed structural film ever made This volume collects essential texts on Snow's work with essays and interviews spanning more than four decades From its earliest issues *October* has been a primary interlocutor of Snow's work and many of these texts first appeared in its pages Written by such distinguished critics and scholars as Annette Michelson Hubert Damisch and Malcolm Turvey they document Snow's participation in postwar discourses of minimalism postminimalism photo conceptualism and avant garde cinema and examine particular works Thierry de Duve's essay on linguistics in Snow's work appears alongside Snow's response The volume also includes other writings by Snow images from his 1975 work *Music for Piano Whistling Microphone and Tape Recorder* and an interview with the artist conducted by Annette Michelson Essays and interviews Jean Arnaud Erik Bullot Hubert Damisch Thierry de Duve André Hayum Annette Michelson Michael Snow Amy Taubin Malcolm Turvey Kenneth White Radiology ,1929 **The New Barnes Readers** Herman Dressel, 1921 **Journal of the ... Annual Convention, Diocese of New Hampshire** ,1906 *The Emerging Shield* Department of Defense, U. S. Air Force, Office of Air Force History, U. S. Government, 2017-09-15 In the 1950s the United States Air Force led the way in building continental air defenses to protect the nation against bomber attack By the end of that decade the United States and Canada deployed a warning network of ground based radars extending from the

United States southern borders to the arctic tundra a fleet of airborne early warning planes naval radar picket ships radar platforms the Texas Towers fastened to the ocean floor in the Atlantic Ocean and a civilian corps of ground observers Once warning of approaching enemy bombers had been received the military forces of the United States and Canada were prepared to unleash against the invader an arsenal of weapons that included fighter interceptors equipped with lethal air to air missiles anti-aircraft artillery and short and long range surface to air missiles some nuclear tipped The whole system was coordinated through a technologically advanced computer oriented command and control system the first of its kind ever deployed The story of the rise of air defense in the United States after World War II is complex and this volume does not presume to be a complete history of the subject It focuses on the U S Air Force s predominant role in defense of the continental United States against manned bomber attacks Although the U S Army the U S Navy and the Canadian Air Force contributed resources to the mission the U S Air Force had primary responsibility for research development and deployment of most of the systems and weapons The outstanding exception was anti-aircraft artillery the province of the U S Army In some respects the Army can be said to have fielded a complementary air defense system separate from that of the Air Force This book however examines the Army s part in the mission only as it concerns roles and missions controversies with the Air Force The volume begins with the U S Army Air Service s involvement with air defense in World War I and traces the story through to the late 1950s and early 1960s Topics and subjects covered Dew Line Pine Tree Line Early Warning Systems NORAD SAC General Hap Arnold Lashup system Billy Mitchell Vandenberg Gordon P Saville Air Defense Command Radar fence SAGE Foulis Russia China North Korea BOMARC milestones listing Genesis of the Air Defense Mission The United States and Air Defense The Early Years Defining the Mission Development of Air Defense Doctrine and Tactics Air Defense in World War II The First Air Defense Command 1940 1941 Air Defense in Wartime Planning for Air Defense in the Postwar Era Establishment of the Air Defense Command Early Planning Efforts The Radar Fence Plan Attempts to Come to Terms with the Mission Active Operations Begin Saville Takes Charge Revision of the Radar Fence Plan Establishment of the Continental Air Command Taking the Case to Congress Fighter Aircraft for Air Defense Further Organizational Changes Chapter 5 Broadening Dimensions Air Defense as a Public Issue The Revolt of the Admirals Impact of the Soviet Atomic Bomb Roles and Missions Dilemmas Air Defense Forces in the Field Continental Air Defense in the Korean War Period Reorganization and the Impact of the Chinese Intervention Confronting Realities Status of the Fighter Interceptor Forces An Integrated Efficient Highly Potent Air Defense System Next to the Real Thing East River The Summer Study Group The Decision to Proceed Defensive Systems Become Operational SAGE A Command and Control Network for Air Defense Warning Lines Other Warning Systems The Air Defense Weapons Force BOMARC Organizing to Meet the Threat Continental Air Defense Command A Joint Command for Air Defense North American Air Defense Command Epilogue Impact of a New Threat Effects of the ICBM Threat on the Air Defenses

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