



CENTER FOR ARMY ANALYSIS

50

≡ **YEARS** ≡

OF

ANALYSIS SUPPORT TO THE U.S. ARMY

1973 - 2023



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Director Emeritus
CAA Historian

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THE GOLDEN ANNIVERSARY HISTORY OF THE CENTER FOR ARMY ANALYSIS 1973 – 2023



THE CENTER FOR ARMY ANALYSIS
6001 Goethals Road
Fort Belvoir, Virginia 22060

50 YEARS OF ANALYSIS SUPPORT TO THE U.S. ARMY



FORWARD



UNITED STATES ARMY
THE CHIEF OF STAFF

15 February 2023

To the Soldiers and Army Civilians of the Center for Army Analysis,

Happy 50th Anniversary!

The CAA dates back to 1973, a watershed year in Army history. It was the beginning of one of the Army's greatest transformations. As we observed the new characteristics of warfare playing out in the 1973 Arab-Israeli War, Army senior leaders and analysts like you began to develop what would become the doctrine of AirLand Battle, the National Training Center, the "Big 5" weapons systems and new organizations - from the Ranger Battalions and Special Operations Aviation Regiment at the tactical level to TRADOC, FORSCOM, and the Concepts Analysis Agency at the institutional level.

In order to win our Nation's wars, Army leaders must be able to make decisions at the speed of relevance, and those decisions are only as good as the analysis that informs them. Today, history is rhyming if not repeating, as we undergo our greatest transformation in over forty years to prepare for large-scale combat operations. Your contributions to that transformation - whether through analytics, modeling and simulation, or wargaming - is more important than ever.

Thank you for everything you do in support of our great Nation and the world's greatest fighting force. I could not be more proud to be your Chief of Staff.

People First! Winning Matters! And we remain Army Strong!

Sincerely,

Proud to serve
with you!

James C. McConville

A handwritten signature in black ink, appearing to read "James C. McConville".

James C. McConville
General, United States Army

PREFACE

It has been an honor to author this Golden Anniversary History of the Concepts Analysis Agency / Center for Army Analysis (CAA). I have been with CAA from the beginning, actually even before the beginning, because I wrote the Concept and Implementation Plans in 1972 for its creation.

Later, it was my privilege to serve as its director for many, many years, and then, after my retirement from active service, to continue as an Army Volunteer as the CAA historian and Director Emeritus. May CAA's next 50 years be as interesting and productive as the first 50 years.

E.B. Vandiver, III
U.S. Army Volunteer
CAA Director Emeritus
CAA Historian

INTRODUCTION



Steven A. Stoddard, PhD
Director
Center for Army Analysis

It is my distinct honor to serve as the Director of the Center for Army Analysis as our Center celebrates its Golden Anniversary. I have been privileged to serve at CAA for 14 years in separate tours around the organization as an analyst in the Force Strategy Division; deployed analyst in Iraq; Chief of the Operations Analysis Division; Technical Director; and now as Director.

There is something special about the Center for Army Analysis that kept me coming back to the organization over the years. At CAA, we conduct strategic analysis that informs Army, Defense, and National decision-making. Our direct support to the Army Headquarters, forward deployed units, and combatant commands keeps us abreast of the challenges facing our Army leaders and enables us to provide analysis that drives change across the Army. Further, CAA has a unique climate of professionalism and camaraderie that has empowered our people to maximize their potential as they contribute as individuals and as teams.

In this history pamphlet, you will find details about some of that impactful work that we have conducted over the past 50 years. Additionally, this pamphlet will help you to learn why senior leaders look to us as frequently and earnestly as they do - because our success in providing actionable support to senior decision-makers has been unwavering since our organization's inception. I am proud to serve as the Director of CAA and look forward to celebrating this momentous occasion with each of you.

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IN THE BEGINNING 1960 – 1972



Before there was CAA, There was STAG

The Strategy and Tactics Analysis Group

- A staff support agency of the Deputy Chief of Staff for Military Operations
- Activated in August 1960

Mission: To support Department of the Army operation planning and evaluation activities by war gaming and allied techniques (Army Regulation 15-14, BOARDS, COMMISSIONS, AND COMMITTEES—United States Army Strategy and Tactics Analysis Group)

- Focus on tactical nuclear warfare by ground forces
- Strength grew from 74 (in 1961) to 155 in (January 1973)
- Located in the Rugby Building in Bethesda, Maryland

STAG Commanders:

COL Alfred DeQuoy (60-63)	COL Frederick White (66-67)
COL Paul Guthrie (63-64)	COL Irwin Carpenter (67-72)
COL Harold Brown (65-66)	COL H.K. Roach (72-73)

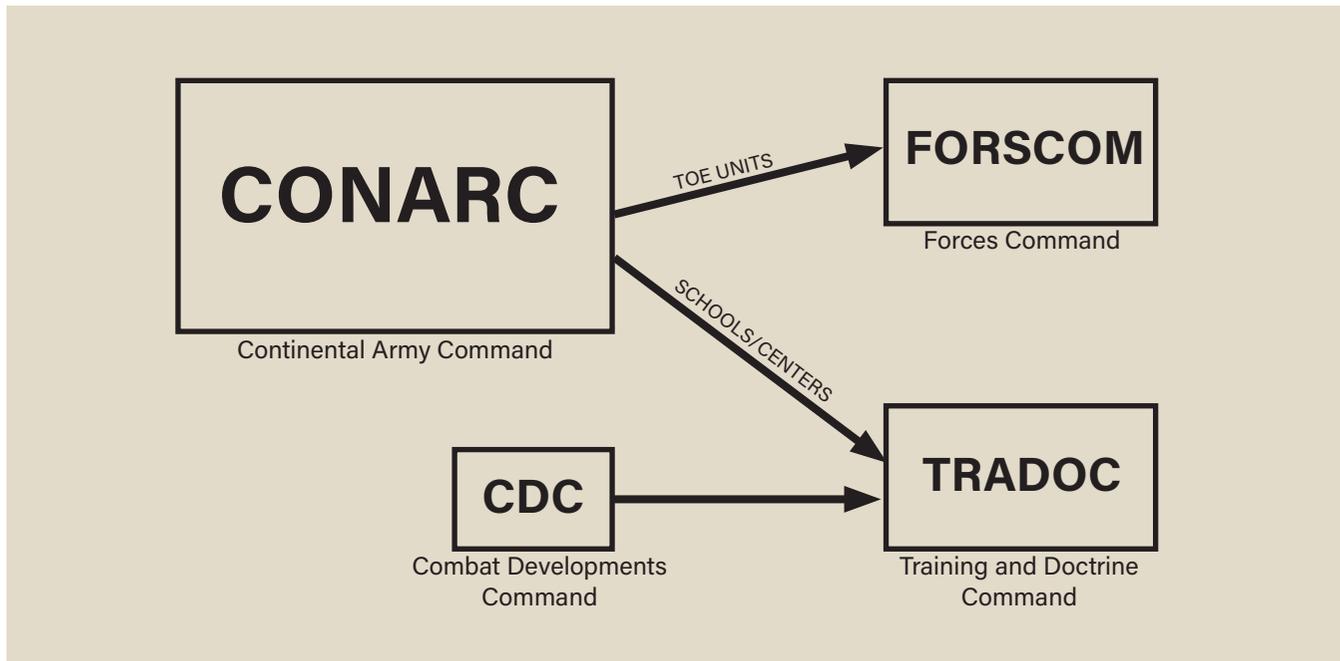


The Rugby Building, Bethesda, Maryland, U.S. Army Photo

THE BIRTH OF THE CONCEPTS ANALYSIS AGENCY CAA IS BORN

STEADFAST Reorganization...Post Vietnam War...
Army wide...Planning in 1972...Implementation in 1973

The Major Army Commands in the Continental United States were rebalanced



AND

Two New HQDA Agencies were created

Agency	Function
OTEA Operational Testing and Evaluation Agency	Operational Test and Evaluation
CAA Concepts Analysis Agency	Force Analysis

GETTING STARTED...THE MILITARY COMMAND ERA 1973 – 1982

U.S. Army Concepts Analysis Agency

- Activated 15 January 1973, reporting to Deputy Chief of Staff for Military Operations and Plans, HQDA
- Commanded by Major General Hal Hallgren
- Authorized Strength
 - Mil 135
 - Civ 190
 - Total 325**



Original CAA Command Group, July 1973
COL William Eichorn, MG Hal Hallgren, and Mr. John Newman
U. S. Army Photo

- Early Operational Practice
 - 25 Studies completed per year
 - Large study teams of 10 or more analysts for each study
 - Formal study advisory groups, met in the Pentagon
 - Study results briefed up the chain of command
 - Studies completely documented
 - Completed study reports formally staffed for approval
- Located in the Woodmont/Rugby Building Complex in Bethesda, Maryland



The Woodmont/Rugby Building Complex in Bethesda, Maryland

Commanding Generals

MG Hal Hallgren 1973–1976
MG Ennis Whitehead 1976–1980
MG Edward Atkinson 1980–1982

- In 1979, the review of Army Analysis Special Study led to CAA's reassignment to the Director of the Army Staff, in support of all the HQDA

THE COLD WAR CLIMAX 1982 – 1989

- CAA Civilian Director replaces Commanding General (1982)
- The Director is member of the Senior Executive Service, the first is Mr. David Hardison
- The Deputy Director is a Brigadier General, the first is BG Hugh J. Quinn
- Number of completed studies increased, study processes simplified, new methodologies developed
- Focus on future war between North Atlantic Treaty Organization (NATO) and the Warsaw Pact

NATO / Warsaw Pact Map



- Warsaw Pact Member
- NATO Members
- Neutral Nations
- Yugoslavia

First SES Director



Mr. David Hardison
U.S. Army Photo

- Major studies developed the required Army Combat and Support Forces; calculated War Reserve requirements for munitions and equipment; and established the capabilities of the Budgeted Force
- Following Mr. Hardison's retirement in September 1984, Mr. E.B. Vandiver III, Technical Advisor to the DCSOPS became the next Director. His first Deputy was BG Joseph L. Ecoppi
- Review of Army Analysis Extended Special Study began expanded analysis support to the Army in the Field, 1985
- November 1989 - the Cold War abruptly ended



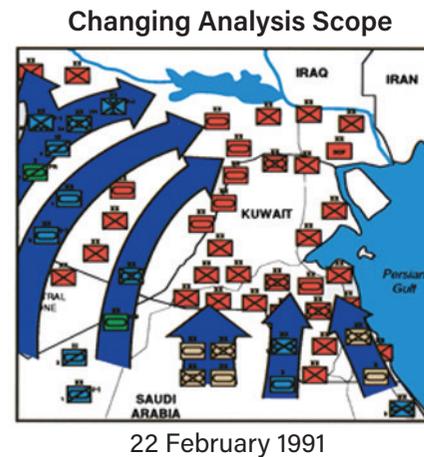
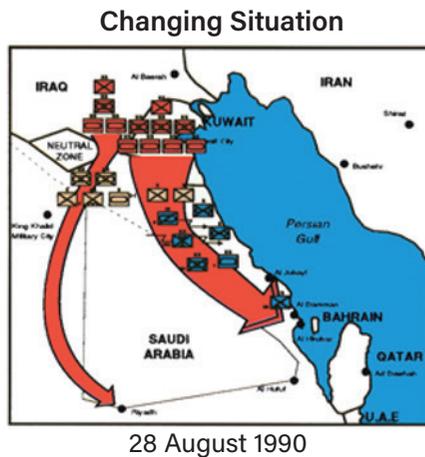
Mr. E.B. Vandiver III
U.S. Army Photo

The Berlin Wall Comes Down
Soviet Army departs Eastern Europe



WAR IN THE PERSIAN GULF 1990 – 1991

- In the spring of 1990, CAA conducted wargames of an Iraqi invasion of Kuwait for the Third U.S. Army via man-in-the-loop wargaming
- Iraq invaded Kuwait, 2 August 1990...CAA began wargaming the defense of Saudi Arabia the next day
- CAA provided analysis support to special HQDA Planning Group



- Man-in-the-loop, two-sided, open wargames, conducted for 3 weeks
- Concepts Evaluation Model (CEM) brought up on the defense of Saudi Arabia scenario...man-in-the-loop wargaming ended
- New cases run weekly for the DCSOPS who sent them to the Third Army Commander, LTG Yeosock, who then requested new cases
- Arranged to run CEM cases on the Cray Supercomputer at the Ballistics Research Laboratory, Aberdeen Proving Grounds, Maryland ... many more cases examined
- Final estimates were remarkably accurate: 4-6 days to free Kuwait with fewer than 1,500 U.S. casualties

THE PEACE DIVIDEND 1991 – 2001

- Army Drawdown
 - Army reduced in size: 785K military end strength down to 485K
 - CAA reduced in size by approximately 25%
- 1991: The Soviet Union dissolved
- Korean Scenario gained in importance
 - CAA provided analysis underpinnings for a new operations plan
 - Expanded Biannual U.S. Korea Defense Analysis seminars
 - CAA analysts assigned to HQ U.S. Forces, Korea on a rotational basis

Operation Analysis



Logistics Analysis



- Growing emphasis on military operations other than war and small conflicts
 - Extensive scenario development with force requirements
 - Mission Task Organized Forces developed
 - Numerous political - military games
- CAA renamed Center for Army Analysis (1998) ... directed to perform more quick reaction analyses
- CAA analysts deployed to Overseas Operational Commands
 - Operations Research and Systems Analysis (ORSA) Cells in Federal Republic of Germany
 - HQ U.S. Forces Korea
 - U.S. Command in Bosnia
 - Deployable Analytical Support Team created ... participated in major overseas exercises especially Bright Star Exercises in Egypt
- Quadrennial Defense Review
 - 1996 and 2000
 - CAA analysis underpinned Army requirements
- CAA moves to Fort Belvoir, Virginia
 - New construction from Base Realignment and Closure, 1995
 - Moved on 22 March 1999
 - Payne Hall dedication ceremony 25 May 1999
- A Forewarning
 - Caucasian Wars, Russia vs. Chechnya - mid and late 1990s



Payne Hall

THE WAR ON TERROR BEGINS 2001 – 2003

- Nine-Eleven September 11, 2001

Twin Towers



Pentagon



United Airlines Flight UA 93

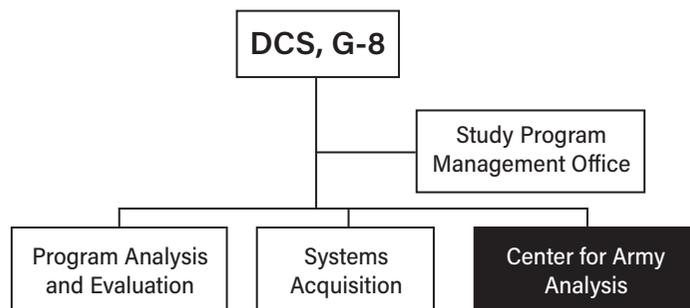


- One CAA analyst (Mr. Bill Wright) seriously injured in Pentagon
- Quadrennial Defense Review abruptly completed
- CAA analysis program disrupted until HQDA normal functioning restored
- The U.S. Strikes back in Afghanistan
 - Lessons learned conducted by the RAND Corporation
 - CAA participated in Lessons Learned Review Board



U.S. Army Horse Soldiers - Operation Enduring Freedom

- HQDA Reorganization 2002
 - Deputy Chief of Staff (DCS), G-3 became DCS, G-3/5/7 Operations/Plans/Training
 - DCS, G-8 created: Program Analysis and Evaluation, and Systems Acquisition
 - CAA Assigned to DCS, G-8



THE WAR IN IRAQ 2003 – 2011

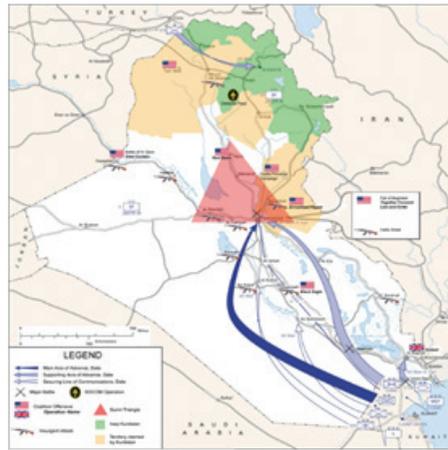
- CAA supported Third Army Planning Wargames
 - Two CAA analysts deployed to Army headquarters HQ in Kuwait
 - Extensive reach-back analysis support
 - CAA wargame operations, risks, and force requirements



Soldiers provide security
Ramadi, August 2006



Soldiers take cover
Mosul, January 2008



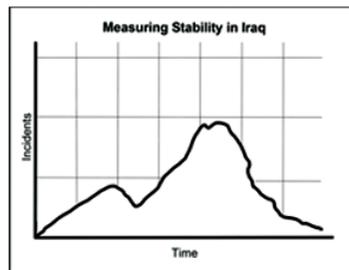
U.S. Forces, Iraq War Map

- CAA Analyst deployed to Army HQ in Baghdad
 - First analyst deployed in September 2003
 - Developed Incident Reporting System
 - Deployed analysts increased in number
 - Supported organizations increased in number
 - Many analysts deployed on 6-month tours...others as needed
 - Final deployed analyst returned to CAA in December 2011

First Deployed Analyst



CPT Allison Stewart
U.S. Army Photo



- CAA developed Doctrine and Training for deployed analysts
 - Developed 2-week Deployed Analyst Training Course
 - Published Handbook for Deployed Analysts
 - Published Commander's Handbook on Analysis Support
 - Documented analysis support in classified and unclassified versions

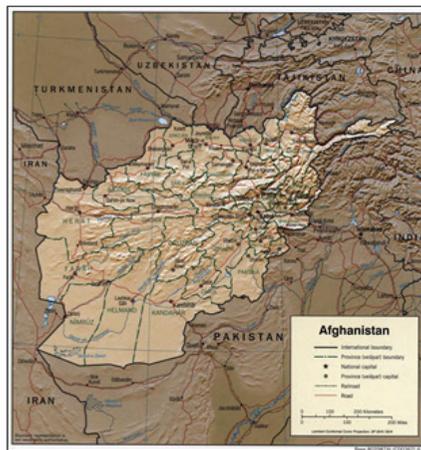
Last Deployed Analyst



Ms. Renee Carlucci
U.S. Army Photo

THE WAR IN AFGHANISTAN 2003 – 2022

- U.S. Commander Afghanistan requested analysis support in 2003
 - Established Incident Reporting System (Major Allison Stewart)
- Launched a series of deployed analysts on 6-month tours to:
 - Afghanistan – 75 (CY 2004-2021)
 - Iraq – 41 (CY 2002-2011)
 - Horn of Africa – 11 (CY 2011-2016)
 - Philippines – 5 (CY 2011-2014)
 - Middle East – 17 (CY 2014-2022)



Afghanistan Map

- Extensive reach-back support provided by CAA from Fort Belvoir, Virginia
- Major analyses addressed Afghan Force requirements, logistics support, medical evacuation requirements, and other operational and logistical issues
- CAA analyst tours of duty in Afghanistan documented in unclassified and classified publications



CAA Deployed Analyst Reports

THE GLOBAL WAR ON TERRORISM EXPANDS 2003 – 2012

- Rotating analysts to Europe and Korea continue
- Extensive analysis support to Army Base Realignment and Closure Commission and Realignment of Department of Defense Administrative Headquarters Study Group
- Office of Deputy Undersecretary of the Army for Operations Research (ODUSA (OR)) terminated
- Mr. Walter Hollis retired
- CAA assigned selected ODUSA (OR) functions
 - Bilateral Analysis Exchanges with Allied Armies (Korea, Canada, Australia, United Kingdom, France, and Germany)
 - Quality assurance reviews of Army Analysis Activities
- Director of CAA designated Senior Analyst of the Army with elevated Senior Executive Services position
- Army Modeling and Simulation Office (AMSO) assigned to CAA (2009)



Mr. Walter Hollis
U.S. Army Photo



Colonel John Lucynski
Director, AMSO
U.S. Army Photo



AMSO, Building 805
U.S. Army Photo

- In 2006, Russia seized parts of Georgia
- CAA analysts deployed on a rotating basis to U.S. Army Africa Command (AFRICOM), with Combined Joint Task Force – Horn of Africa in Djibouti and the Joint Special Operations Task Force – Philippines Mindanao, Philippines
- War in Iraq ends December 2011
- Weekly video teleconference held with worldwide deployed CAA analysts

The Sun Never Sets on CAA
- E.B. Vandiver

CAA Analyst are deployed around the world

GROWING GLOBAL CHAOS...THE RE-EMERGENCE OF MAJOR THREATS

2012 – 2023

- Mr. E.B. Vandiver III retires 3 November 2012 after 28 years as Director
- Dr. Forrest Crain, Director, Army Materiel Systems Analysis Agency, assigned as Director, CAA in 2012
- Emergence of ISIS, the Islamic State, in 2013
- The Under Secretary of the Army designates CAA as the lead agency for theater operational wargaming efforts
- Russia Invades Ukraine seizing the Crimea and parts of the Donets Basin, 2014



Mr. E.B. Vandiver III
U.S. Army Photo



Dr. Wm. Forrest Crain
U.S. Army Photo



- Major CAA studies supported Army participation in the National Commission of the Future of the Army, the operational implications of Proposed Arms Control Actions and strategic and operational assessments
- Continued deployed analyst support to Indo-Pacific, European, and Africa Commands, and Mid-East Peace Process
- Assessed coronavirus disease 2019 effects on CAA and the entire Army
- Dr. Crain retires May 2020
- Dr. Steven Stoddard assigned as Director
- CAA put in charge of all analysis support to HQDA



Dr. Wm. Forrest Crain
U.S. Army Photo



Dr. Steven Stoddard
U.S. Army Photo

CAA TODAY

- Analyze the Size, Shape, and Readiness of the Army
 - Combat and Enabler Forces
 - Regular Army, National Guard, Army Reserve
 - Regionally Aligned Readiness and Modernization Model
 - All Things Stationing
- Serve as the Army's lead for Theater Army Analysis
 - Unified Pacific Wargame Series for U.S. Army Pacific
 - Plans and Logistics for U.S. Army Europe – Africa
 - Homeland Defense for Army North
- Build New Methods, Techniques, and Tools for the Army in Operations
 - Data Science and Data Analytics
 - Models and Simulations for Readiness, Training, and Decisions Support
- Serve as the Army's Field Operating Agency for Analysis, Modeling, and Simulations
 - Training and Development for Functional Area 57 Officers
 - Investing in our People
 - Investing in our Models and Data



Dr. Steven Stoddard
Director
U.S. Army Photo



Mr. Josh Helms
Technical Director
U.S. Army Photo



Colonel Heather Jackson
Chief of Staff / Military Deputy
U.S. Army Photo



Colonel Randall Verde
Deputy Director, AMSO
U.S. Army Photo

APPENDIX I

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APPENDIX II KEY PERSONNEL

CAA DIRECTORS

January 1973 - February 1976	MG Hal Hallgren
April 1976 - May 1980	MG Ennis C. Whitehead, Jr.
July 1980 - February 1982	MG Edward B. Atkeson
February 1982 - September 1984	Mr. David C. Hardison
September 1984 - November 2012	Mr. E.B. Vandiver, III
November 2012 - May 2020	Dr. Wm. Forrest Crain
May 2020 - present	Dr. Steven A. Stoddard

CAA CHIEFS of STAFF / MILITARY DEPUTIES

July 1973 - February 1977	COL William Eichorn
March 1977 - March 1979	COL George Hoffmaster
March 1979 - July 1983	COL Charles E. Currey
August 1983 - December 1984	COL Dick T. LeClare
January 1985 - June 1985	COL William J. Owen
June 1985 - July 1986	COL Daniel D. Clark
July 1986 - November 1988	COL Robert E. Tozier
December 1988 - June 1990	COL Thomas P. Easum
June 1990 - October 1992	COL Don E. Dick
September 1992 - June 1993	COL Walter H. McLendon
July 1993 - July 2000	COL Michael E. Simmons
July 2000 - June 2001	COL James Veditz
June 2001 - December 2002	COL Michael H. Abreu
October 2002 - July 2003	COL Mark D. Hanson
July 2003 - December 2005	COL Gary G. Swenson
December 2005 - February 2008	COL John S. Regan
February 2008 - May 2010	COL Thomas P. Slafkosky
August 2009 - June 2012	COL Christopher M. Hill
June 2012 - June 2015	COL Brian Sperling
June 2015 - April 2018	COL Clark H. Heidelbaugh
April 2018 - September 2020	COL John A. Dinges
September 2020 - December 2020	COL Josh W. Helms
Dec 2020 - August 2021	Mr. Mark A. Young (acting)
August 2021 - Present	COL Heather Jackson

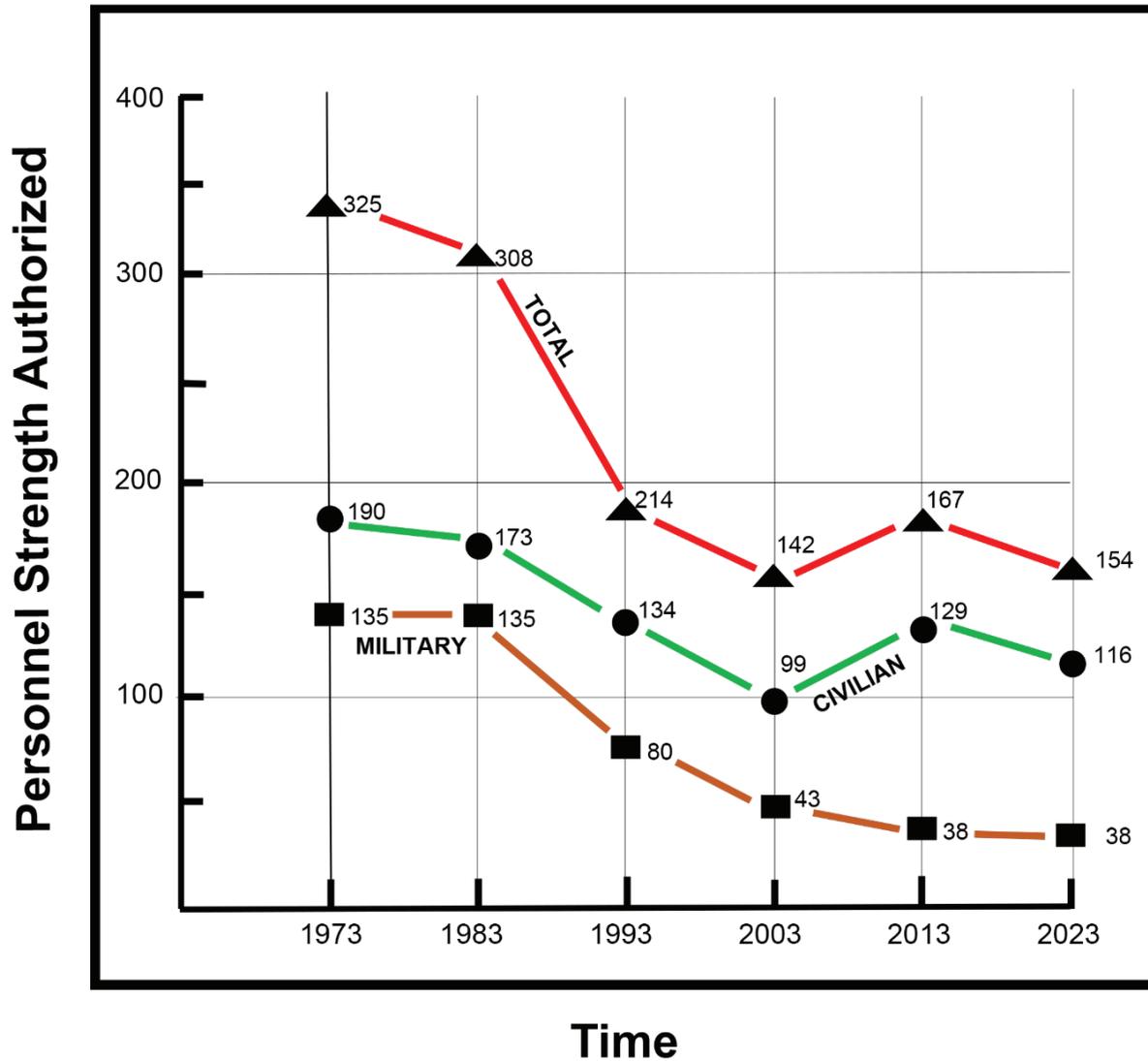
CAA DEPUTY DIRECTORS AND TECHNICAL DIRECTORS

June 1973 - February 1982	Mr. John T. Newman Technical Director
February 1982 - July 1983	BG Hugh J. Quinn Deputy Director
November 1983 - August 1985	BG Joseph L. Ecoppi Deputy Director
November 1985 - October 1986	BG Stephen Silvasy Deputy Director
October 1986 - June 1992	Mr. Philip E. Louer Deputy Director
July 1992 - January 2002	Mr. Daniel J. Shedlowski Technical Director
September 2002 - February 2004	Dr. Wm. Forest Crain Technical Director
February 2005 - September 2007	Dr. David Markowitz Technical Director
September 2008 - March 2012	Dr. Robert L. Steinrauf Technical Director
July 2013 - April 2018	Dr. Steven A. Stoddard Technical Director
December 2018 - May 2020	Mr. Myles M. Miyamasu Technical Director
May 2020 - April 2021	Mr. David C. Reynolds Acting Technical Director
April 2021 - present	Mr. Josh W. Helms Technical Director

AMSO DEPUTY DIRECTORS AND HIGHLY QUALIFIED EXPERT

June 2008 - February 2011	COL John Luczynski
August 2010 - August 2014	Amy Henninger, PhD., HQE
September 2010 - August 2012	COL Charles Jumper
July 2012 - Jun 2014	COL Michael Sanders
June 2014 - September 2015	COL Christopher Ballard
August 2015 - August 2019	COL Joseph Nolan
July 2019 - June 2022	COL Scott Gilman
June 2022 - present	COL Randall Verde

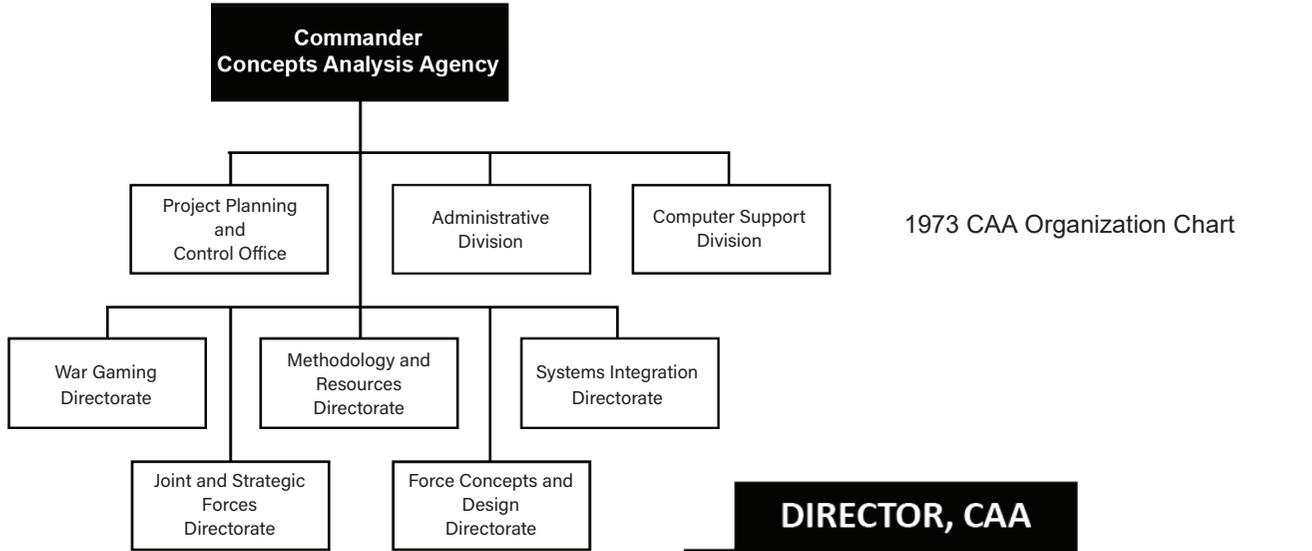
APPENDIX III CAA STRENGTH OVER TIME



- CAA reductions follow reductions in Army Total Authorized Strength.
- Output increased steadily over the 50 years by constantly increasing analytical efficiency with technology, training, and analysis process improvements.

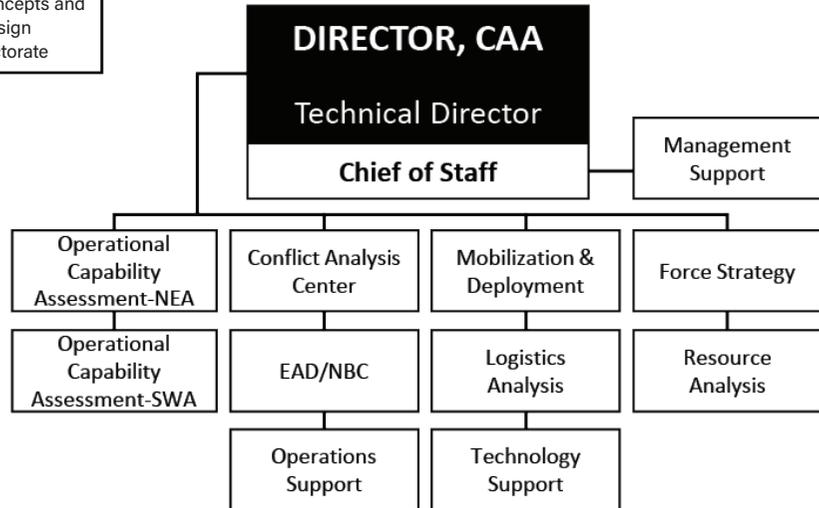
Sources: 1973, 1983, 1993 from History of Operations Research in the U.S. Army; 2003, 2013, 2023 from CAA Data Base.

APPENDIX IV

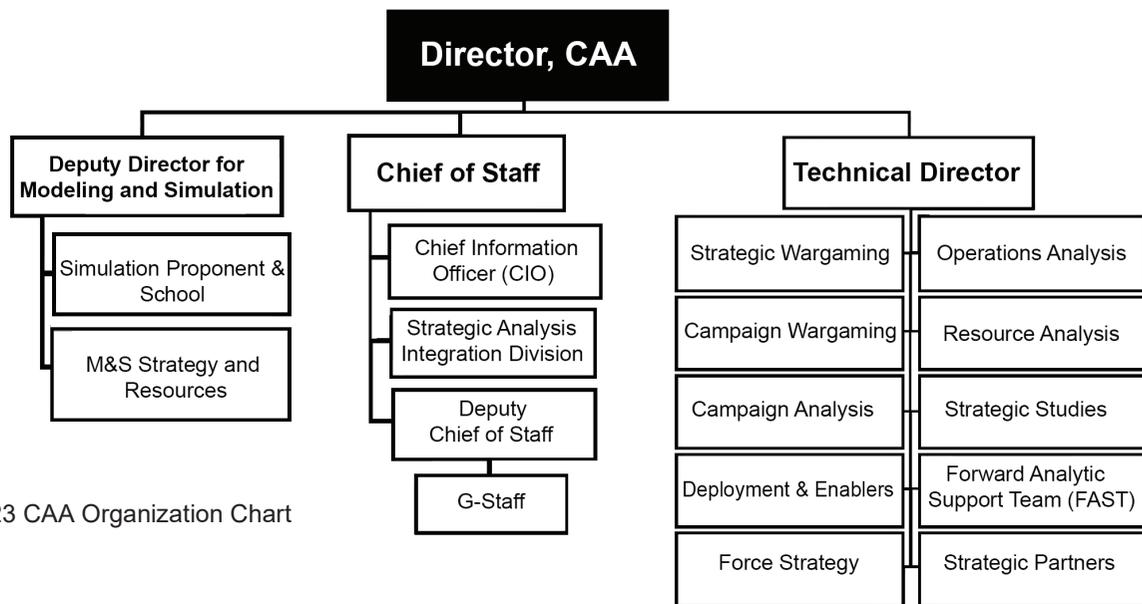


1973 CAA Organization Chart

1998 CAA Organization Chart



2023 CAA Organization Chart



ORGANIZATIONAL LINEAGE

1960	Strategy and Tactics Analysis Group (STAG) formed to provide analysis support to the Deputy Chief of Staff for Military Operations
1962	STEADFAST reorganization recommends the creation of the Concepts Analysis Agency from the STAG and other Army elements
1973	Concepts Analysis Agency (CAA) established and assigned to the Assistant Chief of Staff for Force Development, Headquarters, Department of the Army (HQDA)
1974	Assigned to the Deputy Chief of Staff for Operations and Plans, (DCSOPS), HQDA
1977	Designated as a Field Operating Agency
1979	Assigned to the Chief of Staff of the Army, reporting to the Director of the Army Staff
1998	Renamed to the Center for Army Analysis (CAA)
1999	Relocated from Bethesda, Maryland to Fort Belvoir, Virginia
2002	Assigned to the Deputy Chief of Staff, G-8
2009	Integrated the Army Modeling and Simulation Office (AMSO)
2023	50th Anniversary of Analysis Support to the U.S. Army



**May CAA's next 50 years be as interesting
and productive as the first 50 years.**