GLOSSARY

Section I. Abbreviations and Acronyms

	Α	AO	area of operation
A^2C^2	Army airspace command	AOC	air operations center
, , ,	and	approx	approximately
	control	AR	Army regulation
AAA	antiaircraft artillery	ASAS	All-Source Analysis System
AADC	Area Air Defense	ASI	additional skill identifier
AADO	Commander	ASOC	air support operations center
ABCCC	Airborne Battlefield	AT&A	air traffic and airspace
ADCCC	Command	ATC	air traffic control
	and	ATO	air tasking order
	Control Center	ATS	air traffic services
ABMOC	Air Battle Management		automatic digital network
ADIVIOC	Operations	AV	air vehicle
	Operations	AVGAS	aviation gasoline
	Center	AVLD	air vehicle location display
AC		AVO	air vehicle operator
ACA	alternating current	AWACS	Airborne Warning and Control
ACA	airspace command	AWAGG	System
ACC	authority airspace control center		В
ACE	analysis and control element	BCE	battlefield coordination element
ACO	airspace control order	BDA	battle damage assessment
ACP	airspace control order	bde	brigade
ACR	armored cavalry regiment	BIT	built in test
ADA	air defense artillery	BM	battle management
ADALO	air defense artillery liaison officer	bn	battalion
ADCO	Air Defense Coordination	BNCOC	Basic Noncommissioned Officers
ADCO	Officer	DIVCOC	Course
ADR	airborne data relay	BOS	Battlefield Operating System
ADT	air data terminal	B/W	black/white
AEB	aerial exploitation		С
,	battalion	C^2	command and control
AFATDS	advanced field artillery tactical	C ³	command, control, and
	data	J	communications
	syste	C ³ I	command, control,
m	-,	0.1	communications,
AFCC	Air Force Component		and
, 	Commander		intelligence
AGL	above ground level	С	coulomb
Al	area of interest	CAF	Combined Air Forces
AIT	advanced individual training	CAS	close air support
ALO	air liaison officer	CCS	communications control
AMLS	Airspace Management Liaison	000	set
		cdr	commander
	Section	ch	channel
ANGLICO	air and naval gunfire liaison	CI	counterintelligence
	3	CIFS	close-in fire support
		cm	centimeter
	company	CM&D	collection management
	1 1	5.11.00	5555tion management

	and	FSB FSCL FSCOORI FSE	forward support base fire support coordination line D fire support coordination fire support element
	dissemination	FSO	fire support officer
CMF	career management field	ft	foot
_		FTX	
CO	company	ГІЛ	field training exercise
COA	course of action		G
COMINT	communications intelligence	G2	Assistant Chief of Staff, G2
comms	communications		
COMSEC	communications security		(Intelligence)
CONUS	continental United States	G3	Assistant Chief of Staff, G3
CP	command post		
CRC	control and reporting center		(Operations and Plans)
CSS	combat service support	G4	Assistant Chief of Staff, G4
	D	•	(Logistics)
DA	Department of the Army	gal	gallon
DASC	direct air support center	GCS	ground control station
DC	direct current	GCU	
			ground control unit
DCPA	digital central processor	GDT	ground data terminal
	assembly	gen	generator
DEA	Drug Enforcement Agency	GHz	gigahertz
DGCS	downsized ground control station	GPS	Global Positioning System
DGDT	downsized ground control terminal	GRCS	GUARDRAIL Common Sensor
div	division	GS-R	general support-reinforcing
DOD	Department of Defense	GS	general support
DS	direct support	GSE	ground support equipment
	Ė	GSM	ground station module
EA	electronic attack		Н
EAC	echelons above corps	HAE	high altitude endurance
EIA-RS	fiber-optic cable	HHSC	headquarters, headquarters and
ELINT	electronic intelligence		service company
EO	external operator	HL-UAV	hand-launched UAV
ERS	emergency recovery	HMMWV	high mobility multipurpose wheeled
LINO	system	I IIVIIVIVV	riigii mobility multipurpose wheeled
ES	electronic warfare support		vehicle
EW	electronic warfare	HMT	high mobility truck
LVV		HN	host nation
- ^ ^	F	HQ	
FAA	Federal Aviation	ΠQ	headquarters
EDI	Administration		
FBI	Federal Bureau of	I&W	indications and warnings
===	Investigation	IEW	intelligence and electronic warfare
FCC	Flight Coordination Center	IFF	identification, friend or foe
FDC	Fire Direction Center	IIRS	imagery interoperability rating scale
FEBA	forward edge of battle area	IMINT	imagery intelligence
FLIR	forward looking infrared	in	inch
FLO	fighter liaison officer	INFLTREF	P In-flight Report
FLOT	forward line of own troops	INS	inertial navigation system
flt	flight	IPB	intelligence preparation of the
FM	field manual; frequency		
	modulated		battlefield
F/O	forward observer	IPR	in-progress review
FOC	flight operation center	IR	information requirement
FOV	field of view		J
fpm	foot per minute	JCS	Joint Chiefs of Staff
•	•	300	John Officia of Staff

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JFACC	Joint Forces Air Component	MPU	mobile power unit
		MSE	mobile subscriber equipment
150	Commander	MSL	mean sea level
JFC	Joint Forces Commander	MTI	moving target indicator
JFLCC	Joint Forces Land Component	M-UAV	Maneuver-UAV
100	Commander		N
JOC	Joint Operations Center	NA	not applicable
JROC	Joint Requirements Oversight	NAI	named area of interest
ICTADO	Counsel	NAS	National Airspace System
JSTARS	Joint Surveillance and Target	NAVAIDS	3
IT 114\/	Attack Radar System	NBC	nuclear, biological, chemical
JT-UAV	Joint Tactical-UAV	NCO	noncommissioned officer
17	K	NET	new equipment training
K	thousand	Ni-Cd	nickel cadmium
kg	kilogram	NRT	near-real-time
KHz	kilohertz		0
km	kilometer	OB	order of battle
kts	knots	OOTW	operations other than war
kW	kilowatt	ор	operation
	L	OPCON	operational control
LAA	light antiaircraft	OPLAN	operation plan
LAC	landing arresting cable	OPORD	operation order
lb	pound	OPSEC	operations security
LO	liaison officer	org	organization
LOS	line of sight		P
L/R	launch and recovery	PCM	pulse code modulation
LRS	launch and recovery station	PCS	portable control station
LRT	launch and recovery terminal	PIR	priority intelligence requirements
LRU	line replaceable unit	PL	phaseline
	M	PMCS	preventive maintenance checks
m	meter	501	and services
MAE	medium altitude endurance	POL	petroleum, oil, and lubricants
maint	maintenance	PSYOP	psychological operations
max	maximum	pub	publication
MDCI	multidiscipline counterintelligence		Q
METL	mission essential task list	qty	quantity
METT-T	mission, enemy, troops, terrain		. R
	and weather, and time	R&S	reconnaissance and surveillance
	available	RATO	rocket-assisted takeoff
mar		RC	radio controlled
mgr MHz	manager megahertz	recon	reconnaissance
MI	military intelligence		REP Reconnaissance Exploitation Report
min	minute	RF	radio frequency
mm	millimeter	RII	request for intelligence
MMF	mobile maintenance facility	DIOTA	information
MMP	modular mission payload	RISTA	reconnaissance, intelligence,
MOGAS	motor gasoline		surveillance, and target
MOS	military occupational specialty	DI 4	acquisition
MPC	mission planning and control	RL-1	readiness level-1
MPCS	mission planning and control	ROZ	restricted operating zone
50	station	rpm	revolutions per minute
MPS	mission planning station	RPV RRS	remotely piloted vehicle remote receiver station
	F 9 eveno.	CMA	remote receiver station

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RVT UHF remote video terminal ultra high frequency United States (of America) US S **USAF** United States Air Force Intelligence Officer (US Army) S2 **USMC** United States Marine Corps S3 Operations and Training **USMTF** United States Message Text Officer (US Army) **Format** Siemens USN **United States Navy SALUTE** size, activity, location, unit, time, and equipment search and rescue V SAR volt **VCR** SATCOM satellite communication video cassette recorder **VFR** visual flight rule sec second SIGINT signals intelligence **SINCGARS** Single Channel Ground Airborne W watt Radio System **WWPI** Worldwide Power Interface SOP standing operating procedure Z **STANAG** Standardization Agreement Ζ Zulu Т T/O takeoff

t time
TAC takeon
takeon
takeon
takeon
takeon
takeon
takeon
takeon

TACP tactical air control party
TACS theater air control system
TARWI target weather indicators

TBP to be published

TCU tracking and communications

unit

TEB tactical exploitation battalion

tech technical

TENCAP tactical exploitation of national

capabilities

TM technical manual

TOC tactical operations center TTP tactics, techniques, and

procedures

TROJAN AN/FSQ-144V TV television

UUAV

Unmanned Aerial Vehicle

UAV-E UAV-Endurance

Section II. Definitions

Air control - The authority to effect the maneuver of aircraft. The elements of air control are: air control agency, air controller, airspace control, operational control, positive control, procedural control, radar control, and terminal control. Air control is the authority to direct the physical maneuver of aircraft in flight, to direct an aircraft, or to engage a specific target.

Air defense - All defensive means designed to destroy attacking enemy aircraft or missiles in the

earth's envelope of atmosphere, or to nullify or reduce the effectiveness of such attack.

Air reconnaissance - The acquisition of intelligence information by employing visual observation and/or sensor in AVs.

Airspace control - A service provided in the combat zone to increase operational effectiveness by promoting safe, efficient, and flexible use of

airspace. Airspace control is provided in order to permit greater flexibility of operations while authority to approve, disapprove, or deny combat operations is vested only in the operational commander. A service which coordinates, integrates, and regulates the use of an airspace of defined proportions.

Airspace control authority - The commander is designated to assume overall responsibility for the operation of the airspace control system in the airspace control area.

Airspace control order - An order implementing the airspace control plan that provides details of the approved requests for airspace control measures. It is published as a part of the ATO or as a separate document.

Airspace control system - An arrangement of those organizations, personnel, policies, procedures, and facilities required to perform airspace control functions.

Airspace management - The coordination, integration, and regulation of the use of airspace of defined dimensions.

Area of operations - A geographical area wherein a commander is directly capable of influencing operations by maneuver or fire support systems normally under his command or control.

Close air support - Air action against hostile targets which are in close proximity to friendly forces and which require detailed integration of each air mission with the fire and movement of those forces.

Combined arms - The full integration of arms in such a way that in order to counteract one, the enemy must make himself vulnerable to another. The TTPs are employed by a force to integrate firepower and mobility to produce a desired effect upon the enemy.

Command - The authority that a commander in the military service lawfully exercises over subordinates by virtue of rank or assignment. Command includes the authority and responsibility for effectively using available resources and for planning the employment of, organizing, directing, coordinating, and controlling military forces for the

accomplishment of assigned missions. It also includes responsibility for health, welfare, morale, and discipline of assigned personnel.

Command and control - The exercise of authority and direction by a properly designated commander over assigned forces in the accomplishment of the mission. C² functions are performed through an arrangement of personnel, equipment, communications, facilities, and procedures employed by a commander in planning, directing, coordinating, and controlling forces and operations in the accomplishment of the mission.

Coordinating altitude - A procedural airspace control method to separate fixed- and rotary-wing aircraft by determining an altitude below which fixed-wing aircraft will normally not fly and above which rotary-wing aircraft normally will not fly. The coordinating altitude is normally specified in the airspace control plan and may include a buffer zone for small altitude deviations.

Deep air support - Air action against enemy targets at such a distance from friendly forces that detailed integration of each mission with fire and movement of friendly forces is not required. Deep air support missions are flown on either side of the fire support coordination line; the lack of a requirement for close coordination with the fire and movement of friendly forces is the qualifying factor.

Electronic warfare - Any military action involving the use of electromagnetic and directed energy to control the electromagnetic spectrum or to attack the enemy. The three major subdivisions within electronic warfare are electronic attack, electronic protection, and electronic warfare support.

- Electronic attack That division of EW involving the use of electromagnetic or directed energy to attack personnel, facilities, or equipment with the intent of degrading, neutralizing, or destroying enemy combat capability. EA includes:
 - Actions taken to prevent or reduce an enemy's effective use of the electromagnetic spectrum, such

- as jamming and electromagnetic deception.
- Employment of weapons that use electromagnetic or directed energy as their primary destructive mechanism (lasers, RF weapons, particle beams).
- Electronic protection That division of EW involving actions taken to protect personnel, facilities, and equipment from any effects of friendly or enemy employment, or EW that degrade, neutralize, or destroy friendly combat capability.

• Electronic warfare support -

That division of EW involving actions tasked by, or under direct control of, an operational commander to search for, intercept, identify, and locate sources of intentional and unintentional radiated electromagnetic energy for the purpose of immediate threat recognition. Thus, EW support provides information required for immediate decisions involving EW operations and other tactical actions such as threat avoidance. targeting, and homing. EW support data can be used to produce SIGINT, both COMINT and ELINT.

Essential elements of information - The critical items of information regarding the enemy and the environment needed by the commander, at a particular time, to relate with other available information and intelligence in order to assist in reaching a logical decision.

Fire support coordination line - A line established by the appropriate ground commander to ensure coordination of fire not under his control but which may affect current tactical operations. The fire support coordination line (FSCL) is used to coordinate fires of air,

ground, or sea weapons systems using any type of ammunition against surface targets. The FSCL should follow wel-defined terrain features. The establishment of the FSCL must be coordinated with the appropriate tactical air commander and other supporting elements. Supporting elements may attack targets forward of the FSCL without prior coordination with the ground force commander, provided the attack will not produce adverse surface effects on, or to the rear of, the line. Attacks against surface targets behind this line must be coordinated with the appropriate ground force commander.

Forward air controller - A member of the tactical air control party who, from a forward ground or airborne position, controls aircraft in CAS ground troops.

Identification - The process of determining the friendly or hostile character of an unknown detected contact.

Identification, friend or foe - A system using electromagnetic transmissions to which equipment carried by friendly forces automatically responds; for example, by emitting pulses, thereby distinguishing themselves from enemy forces.

Joint operation - An operation carried on by a force which is composed of significant elements of the Army, Navy, Marine Corps, and the Air Force, or two or more of these services operating under a single commander authorized to exercise unified command or OPCON over joint forces.

Low level transit route - A temporary corridor of defined dimensions which facilitates the low level passage of friendly aircraft through friendly air defenses and controlled or restricted airspace.

Main battle area - That portion of the battlefield in which the decisive battle is fought to defeat the enemy. For any particular command, the main battle area extends rearward from the FEBA to the read boundary of the command's subordinate units.

Minimum risk route - A temporary corridor of defined dimensions recommended for use by high-speed, fixed-wing aircraft that presents the minimum known hazards to low-flying aircraft transisting the combat zone.

Near-real-time - Delay caused by automated processing and display between the occurrence of an event and reception of the data at some other location.

Operational control - With respect to a flight, the exercise of authority over initiating, conducting, or terminating a flight. Transferable command authority which may be exercised by commanders at any echelon at or below the level of combatant command. OPCON is inherent in combatant command (command authority) and is the authority to perform those functions of command over subordinate forces involving organizing and employing commander and forces, assigning tasks, designating objectives, and giving authoritative direction necessary to accomplish the mission. OPCON includes authoritative direction over all aspects of military operations and joint training necessary to accomplish missions assigned to the command. OPCON should be exercised through the commanders of subordinate organizations; normally this authority is exercised through the service component commanders. OPCON normally provides full authority to organize commands and forces and to employ those forces as the commander considers necessary to accomplish assigned missions. OPCON does not, in and of itself, include authoritative direction for logistics or matters of administration, discipline, internal organization, or unit training.

Positive control - A method of airspace control that relies on positive identification, tracking, and direction of aircraft within an airspace, conducted with electronic means by an agency having the authority and responsibility therein. Also the tactical control of aircraft by a designated control unit, whereby the aircraft receives orders affecting its movements which immediately transfer responsibility for the safe navigation of the aircraft to the unit issuing such orders.

Procedural control - A method of airspace control that relies on a combination of previously agreed and promulgated orders and procedures.

Restricted operations zone - Airspace of defined dimensions, designated by the airspace control authority, in response to specific operational situation or requirements within which the operation of one or more airspace users is restricted.

Rules of engagement - Directives issued by competent military authority which delineate the circumstances and limitations under which United States Forces will initiate and continue combat engagements with other forces encountered.

Suppression of enemy air defenses - That activity which neutralizes, destroys, or temporarily degrades enemy air defense in a

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specific area by physical attack, deception, and FW

Surface-to-air weapon - A surface-launched weapon for use against airborne targets. Future developments in air defense systems may lead to the employment of weapons other than missiles. Examples include rockets, directed-energy weapons, and air defense guns.

Surveillance - The systematic observation of aerospace, surface or subsurface areas, places, persons, or things, by visual, aural, electronic, photographic, or other means.

Target acquisition - The detection, identification, and location of a target in sufficient detail to permit the effective employment of weapons.

Tasking - The process of translating the allocation into orders, and passing these orders to the units involved. Each order normally contains sufficient detailed instructions to enable the executing agency to accomplish the mission successfully.

Unmanned aerial vehicle - A powered, aerial vehicle that does not carry a human operator, uses aerodynamic forces to provide vehicle lift, can fly autonomously or be piloted remotely, can be expendable or recoverable, and can carry a lethal or nonlethal payload.

Ballistic or semiballistic vehicles, cruise missiles, and artillery projectiles are not considered UAVs.