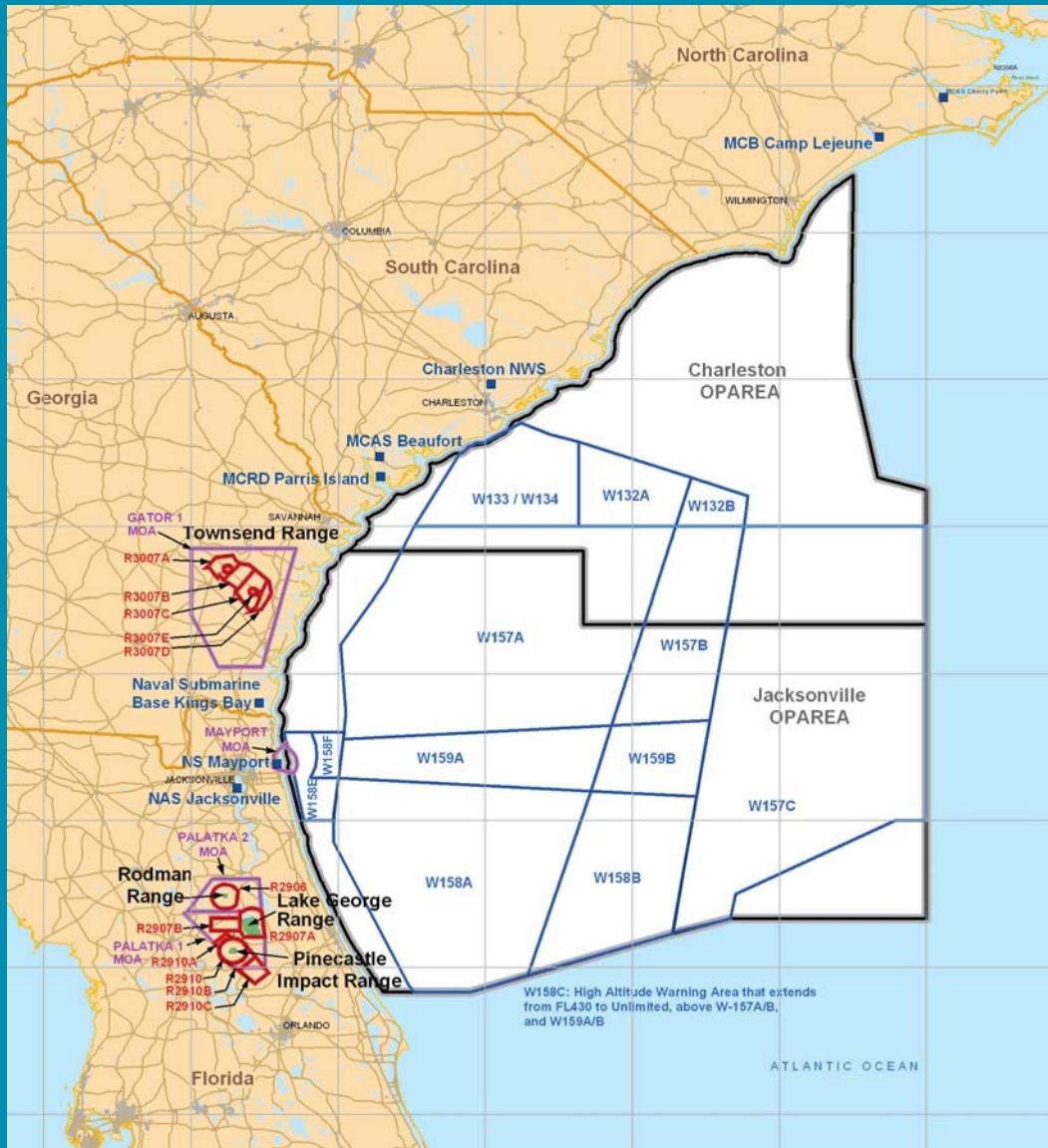


Jacksonville Range Complex Final Environmental Impact Statement/ Overseas Environmental Impact Statement (EIS/OEIS) Volume 1



Prepared by:
United States Fleet Forces
March 2009

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JACKSONVILLE RANGE COMPLEX FINAL ENVIRONMENTAL IMPACT STATEMENT/ OVERSEAS ENVIRONMENTAL IMPACT STATEMENT

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Abstract:

The Department of the Navy has prepared this Final Environmental Impact Statement (EIS)/Overseas Environmental Impact Statement (OEIS) to assess the potential environmental impacts over a 10-year planning horizon associated with Navy Atlantic Fleet training; research, development, testing, and evaluation activities; and associated range capabilities enhancements in the Jacksonville (JAX) Range Complex. The Study Area is composed of the Jacksonville and Charleston operating areas, mean high tide shoreline to three nautical miles offshore, and two inland ranges - Lake George Range and Rodman Range. The potential effects to physical, biological, and man-made environments from the testing and training alternatives were studied to determine how the proposed action could affect these resources. The National Marine Fisheries Service is a Cooperating Agency for this EIS/OEIS.

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LIST OF ACRONYMS AND ABBREVIATIONS

A-A	Air-to-Air	dBA	Decibel (A-Weighted)
A-G	Air-to-Ground	dBp	Decibel (peak sound level)
A-S	Air-to-Surface	dd	Distance Doubled
AAOC	Associated Area of Concern	DDG	Guided Missile Destroyer
AIC	Air Interceptor Control	DENR	Department of Environment and Natural Resources
ACM	Air Combat Maneuvering	DEQ	Department of Environmental Quality
AEAU	Alternative Energy and Alternate Use	DNL	Day-Night Average Sound Level
AFAST	Atlantic Fleet Active Sonar Training	DMA	Dynamic Management Area
AGL	Above-Ground Level	DoD	Department of Defense
AIC	Air Intercept Control	DoN	Department of the Navy
AICUZ	Air Installation Compatible Use Zone	EA	Environmental Assessment
ALMDS	Airborne Laser Mine Detection System	EC	Electronic Combat
AMNS	Airborne Mine Neutralization System	EEZ	Exclusive Economic Zone
AMW	Amphibious Warfare	EFD	Energy Flux Density
AQCR	Air Quality Control Region	EFH	Essential Fish Habitat
ASMFC	Atlantic States Marine Fisheries Commission	EFHA	Essential Fish Habitat Assessment
ASW	Anti-Submarine Warfare	EGTTR	Eglin Gulf Test and Training Range
ATC	Air Traffic Control	EIS	Environmental Impact Statement
AUTEC	Atlantic Undersea Test and Evaluation Center	EMATT	Expendable Mobile ASW Training Target
AW	Air Warfare	EO	Executive Order
BDU	Bomb Dummy Unit	EOD	Explosive Ordnance Disposal
BO	Biological Opinion	ESA	Endangered Species Act
BOMBEX	Bombing Exercise	ESG	Expeditionary Strike Group
CAA	Clean Air Act	EW	Electronic Warfare
CAS	Commercial Air Services	EWS	Early Warning System
CATEX	Categorical Exclusion	FAA	Federal Aviation Administration
CEQ	Council on Environmental Quality	FAC	Fast Attack Craft
CETAP	Cetacean and Turtle Assessment Program	FACSFAC	Fleet Area Control and Surveillance Facility
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	FEIS	Final Environmental Impact Statement
CFFC	Commander, United States Navy Fleet Forces Command	FERC	Federal Energy Regulatory Commission
CFR	Code of Federal Regulations	FFG	Frigate
CG	Cruiser	FFWCC	Florida Fish and Wildlife Conservation Commission
CHRIMP	Consolidated Hazardous Material Reutilization and Inventory Management Program	FIAC	Fast Inshore Attack Craft
CFMETR	Canadian Forces Maritime Experimental and Test Range	FIP	Federal Implementation Plan
CIWS	Close-In Weapon System	FIREX	Firing Exercise
CNA	Center for Naval Analysis	FMP	Fishery Management Plan
CNAF	Command Naval Air Force	FNAI	Florida Natural Areas Inventory
COMPTUEX	Composite Training Unit Exercise	FRTP	Fleet Response Training Plan
CNO	Chief of Naval Operations	FRP	Fleet Response Plan
CSAR	Combat Search and Rescue	ft	Feet
CSB	Cape San Blas	FY	Fiscal Year
CSG	Carrier Strike Group	GBU	Guided Bomb Unit
CVN	Nuclear Aircraft Carrier	GTFP	Green Turtle Fibropapillomatosis
CVW	Carrier Air Wing	GUNEX	Gun Exercise
CWA	Clean Water Act	HE	High Explosive
CZMA	Coastal Zone Management Act	HFAS	High-frequency Active Sonar
CZMP	Coastal Zone Management Plan	HITS	Historical Temporal Shipping
		Hz	Hertz
		ICMP	Integrated Comprehensive Monitoring Program
		IEER	Improved Extended Echo Ranging

Jacksonville Range Complex FEIS/OEIS List of Acronyms and Abbreviations

IFR	Instrument Flight Rules	MU	Management Unit
IMPASS	Integrated Maritime Portable Acoustic Scoring and Simulator System	NAAQS	National Ambient Air Quality Standards
IP	Implementation Plan	NAS	Naval Air Station
ISR	Intelligence, Surveillance and Reconnaissance	NASA	National Aeronautics and Space Administration
ISTT	Improved Surface Tow Target	Navy	Department of the Navy; U.S. Navy
ITA	Incidental Take Authorization	NAWQC	National Ambient Water Quality Criteria
ITS	Incidental Take Statement	NDAA	National Defense Authorization Act
IWC	International Whaling Commission	NEPA	National Environmental Policy Act
JASSM	Joint Air to Surface Stand off Missile	NEPM	Non-explosive Practice Munition
JAX	Jacksonville	NEW	Net Explosive Weight
JTFEX	Joint Task Force Exercise	NHPA	National Historic Preservation Act
kg	Kilogram	nm	Nautical Miles
kHz	Kilohertz	nm ²	Square Nautical Miles
lbs	Pounds	NMFS	National Marine Fisheries Service
L _{dn}	Day-Night Average Sound Level (Formula Version)	NOAA	National Oceanic and Atmospheric Administration
L _{dnmr}	Onset-Rate Adjusted Monthly Day-Night Average Sound Level	NOA	Navy OPAREA Density Estimate
L _{eq}	1 Second Averaged Equivalent Sound Level	NOI	Notice of Intent
LFA	Low Frequency Active	NOTAM	Notice-to-Airmen
LHD	Amphibious Assault Ship	NOTMAR	Notice-to-Mariners
LIDAR	Light Detection and Ranging	NPDES	National Pollution Discharge Elimination System
LNG	Liquid Natural Gas	NRC	National Research Council
LSD	Dock Landing Ship	NRHP	National Register of Historic Places
MARPOL	International Convention for the Prevention of Pollution from Ships	NSW	Naval Special Warfare
MBTA	Migratory Bird Treaty Act	OAML	Oceanographic and Atmospheric Master Library
MCM	Mine Countermeasures	OASIS	Organic Airborne Surface Influence Sweep
MCAS	Marine Corps Air Station	OCE	Officer Conducting the Exercise
MCB	Marine Corps Base	OCS	Outer Continental Shelf
µg/L	Micrograms Per Liter	OEA	Overseas Environmental Assessment
µPa	MicroPascals	OEIS	Overseas Environmental Impact Statement
mg/L	Milligrams per Liter	OMCM	Organic Mine Countermeasures
MEM	Military Expended Material	OOD	Officer of the Deck
MFAS	Mid-frequency Active Sonar	OPAREAs	Operating Areas
MINEX	Mining Exercise	OPFOR	Opposition Force
MIO	Maritime Interception Operation	OPNAVINST	Chief of Naval Operations Instruction
MISSILEX	Missile Exercise	Pa	Pascals
MIW	Mine Warfare	PAH	Polycyclic Aromatic Hydrocarbon
MLTR	Multi-Mission Maritime Aircraft	PCB	Polychlorinated Biphenyls
mm	Millimeter	PIR	Pinacastle Mission Area
MMPA	Marine Mammal Protection Act	PL	Public Law
MMS	Minerals Management Service	pm	Particulate matter
MMO	Marine Mammal Observer	PMAR	Primary Mission Area
MOA	Military Operating Area	ppb	Parts per Billion
mph	Miles per Hour	ppm	Parts per Million
MRA	Marine Resource Assessment	ppt	Parts per Thousand
MS	Maritime Security	psf	Pounds per Square Foot
MSAT	Marine Species Awareness Training	PSW	Precision Strike Weapons
MSFCMA	Magnuson-Stevens Fishery Conservation and Management Act	R&D	Research and Development
MSR	Mobile Sea Range	RAICUZ	Range Air Installation Compatible Use Zone
MTE	Major Training Exercise	RAMICS	Rapid Airborne Mine Clearance System
		RCD	Required Capabilities Document
		RCMP	Range Complex Management Plan
		RCRA	Resource Conservation and Recovery Act
		RDT&E	Research, Development, Test and Evaluation

Jacksonville Range Complex FEIS/OEIS List of Acronyms and Abbreviations

RDX	Rapid-Detonating Explosive	SVP	Seasonal Sound Velocity Profile
RF	Radio Frequency	TALD	Tactical Air-Launched Decoy
ROD	Record of Decision	TAP	Tactical Training Theater Assessment and Planning
RSG	Range Sustainability Group	TRIMS	Target and Range Information System
RSO	Range Safety Official	TTS	Temporary Threshold Shift
S-A	Surface-to-Air	ULT	Unit Level Training
SAB	South Atlantic Bight	UNDET	Underwater Detonation
SAFMC	South Atlantic Fishery Management Council	U.S.	United States
SCECAP	South Carolina Estuarine and Coastal Assessment Program	USAF	United States Air Force
SDB	Small Diameter Bomb	USACE	United States Army Corp of Engineers
SEL	Sound Exposure Level	USE	Uncommon Stranding Event
SEPTAR	Seaborne Powered Target	U.S.C.	United States Code
SESEF	Shipboard Electronic Systems Evaluation Facility	USCB	U.S. Census Bureau
SFA	Sustainable Fisheries Act	USCG	United States Coast Guard
SINKEX	Sinking Exercise of Surface Targets	USCOP	U.S. Commission on Ocean Policy
SMA	Seasonal Management Area	USEPA	U.S. Environmental Protection Agency
SOP	Standard Operating Procedure	USFF	United States Fleet Forces
SPL	Sound Pressure Level	USFWS	United States Fish and Wildlife Service
SR	State Route	USMC	United States Marine Corps
SRI	Santa Rosa Island	USWTR	Undersea Warfare Training Range
S-S	Surface-to-Surface	VACAPES	Virginia Capes
SSBN	Ballistic Nuclear Submarine	VAST	Virtual At-Sea Training
SSC	Naval Warfare Systems Center	VBSS	Visit, Board, Search, and Seizure
SSG	Surface Strike Group	VFR	Visual Flight Rules
SSN	Nuclear Submarine	WFF	Wallops Flight Facility
SST	Sea Surface Temperature	WRSEPA	Water Range Sustainability Environmental Program Assessment
STW	Strike Warfare	XBT	Expendable Bathythermograph
SUA	Special Use Airspace	ZOI	Zone of Influence
SURTASS	Surveillance Towed Array Sensor System		
SUW	Surface Warfare		