



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 96TH TEST WING (AFMC)
EGLIN AIR FORCE BASE FLORIDA

Mr. Bruce Hagedorn
Chief, Eglin Natural Resources
501 De Leon Street Suite 101
Eglin AFB FL 32542-5133

Ms. Jolie Harrison
Division Chief
Office of Protected Resources
National Marine Fisheries Service (NMFS)
1315 East-West Highway
Silver Spring, MD 20910-3226

MAR 17 2016

Dear Ms. Harrison:

This annual report is being submitted as a summary of the following activities conducted in the Eglin Gulf Test and Training Range (EGTTR), for which Eglin has obtained authorizations under the Marine Mammal Protection Act (MMPA) from the National Marine Fisheries Service (NMFS): Precision Strike Weapons (PSW) tests, Air Force Special Operations Command (AFSOC) Air-to-Surface (A-S) Gunnery Training, Naval Explosive Ordnance Disposal School (NEODS) Training, and Maritime Weapon Systems Evaluation Program (WSEP) Operations.

Precision Strike Weapon (PSW) and Air Force Special Operations Command (AFSOC) Air-to-Surface (A-S) Gunnery Activities

A Joint Letter of Authorization (LOA) combining PSW testing and AFSOC A-S gunnery training activities was issued on March 5, 2014 and will expire on March 4, 2019. A Biological Opinion (BO) for PSW testing was issued on March 14, 2005 by the NMFS [Consultation No. F/SER/2004/00223] and another BO for AFSOC A-S gunnery training was issued on October 20, 2004 [Consultation No. F/SER/2003/00201].

No PSW missions were conducted during the 2015 calendar year.

Three AFSOC A-S gunnery missions conducted in November 2014 were reported to Eglin Natural Resources after the 2014 Annual Report was submitted. Email correspondence with the proponent stressed the importance of timely submission of Protected Species Observer Report Forms. A face-to-face Marine Species Observer Training class was held on July 13, 2015 with the proponents as a remedial action.

Eight A-S gunnery missions were conducted during the 2015 calendar year. Copies of all Protected Species Observer Report Forms are included in Appendix A of this report. Table 1 summarizes the results of the report forms, including those missions conducted in November 2014. One mission conducted on 3/9/2015 started at 5:50 PM local time, which was before

sunset occurred at 6:50 PM. Eglin Natural Resources contacted the observer who filled out the report, and he clarified that the 105 mm Full-Up (FU) rounds were fired first, before sunset, leaving the remaining rounds to be fired either during or after sunset. One mission, also conducted in March, appeared to have fired 105 mm FU rounds after sunset, instead of the prescribed 105 mm Training Rounds (TR). This mission was conducted on 3/30/2015 and started after sunset occurred; therefore all rounds listed in Table 1 for the 3/30/2015 mission were fired during nighttime. While this mission may not have abided by the Avoidance and Minimization Measures and Terms and Conditions in the LOA and BO, no protected species were observed before, during or after each mission, and no takes occurred as a result of this mission. Post-mission discussions with the proponent clarified that only 105 mm TRs should be shot during nighttime missions (30 minutes before sunset) and the Eglin Natural Resources representative was assured that it would not happen again.

Table 1. Summary of Air-To-Surface Gunnery Missions: November 2014 – December 2015

Date of Mission	Sunset	Pre-Mission Surveys		Mission Times		Post-Mission Surveys		Rounds Used	# of Rounds Expended	Protected Species Observed?
		Start	End	Start	End	Start	End			
11/19/2014	4:47 PM	10:15 AM	10:30 AM	10:30 AM	12:00 PM	12:00 PM	12:30 PM	30 mm	180	No
								MK-25 flares	8	
11/26/2014a	4:45 PM	10:30 AM	10:45 AM	10:45 AM	12:15 PM	12:15 PM	12:45 PM	30 mm	180	No
								MK-25 flares	8	
11/26/2014b	4:45 PM	12:15 PM	12:30 PM	12:30 PM	2:00 PM	2:00 PM	2:30 PM	30 mm	180	No
								MK-25 flares	8	
3/9/2015*	6:50 PM	5:40 PM	5:50 PM	5:50 PM	7:25 PM	7:30 PM	7:35 PM	25 mm	350	No
								40 mm	96	
								105 mm FU	5	
								MK-25 flares	28	
3/30/2015*	7:03 PM	6:00 PM	6:15 PM	6:15 PM	7:45 PM	7:45 PM	8:00 PM	25 mm	6	No
								40 mm	100	
								105 mm FU	50	
7/2/2015	7:52 PM	1:05 PM	1:20 PM	1:20 PM	1:30 PM	1:35 PM	1:45 PM	MK-25 flares	2	No
7/6/2015a	7:52 PM	1:30 PM	2:00 PM	2:00 PM	2:40 PM	2:40 PM	2:55 PM	30 mm	450	No
7/6/2015b	7:52 PM	2:00 PM	2:25 PM	2:25 PM	2:45 PM	2:45 PM	3:00 PM	30 mm	300	No
7/7/2015	7:52 PM	10:42 AM	10:58 AM	11:15 AM	11:31 AM	11:36 AM	11:46 AM	30 mm	450	No
								MK-25 flares	2	
7/16/2015	7:49 PM	2:30 PM	2:50 PM	2:50 PM	3:20 PM	3:20 PM	3:35 PM	30 mm	240	No
8/31/2015	7:10 PM	3:30 PM	3:45 PM	3:45 PM	4:45 PM	4:45 PM	5:00 PM	25 mm	60	No
								40 mm	64	
								105 mm TR	30	
12/7/2015*	4:45 PM	5:08 PM	5:15 PM	5:19 PM	6:29 PM	6:30 PM	6:36 PM	25 mm	150	No
								40 mm	37	
								105 mm TR	23	

FU = Full-Up; TR = Training Round; mm = millimeter

* Portions or entirety of mission was conducted 30 minutes prior to sunset or later [also highlighted in light blue]

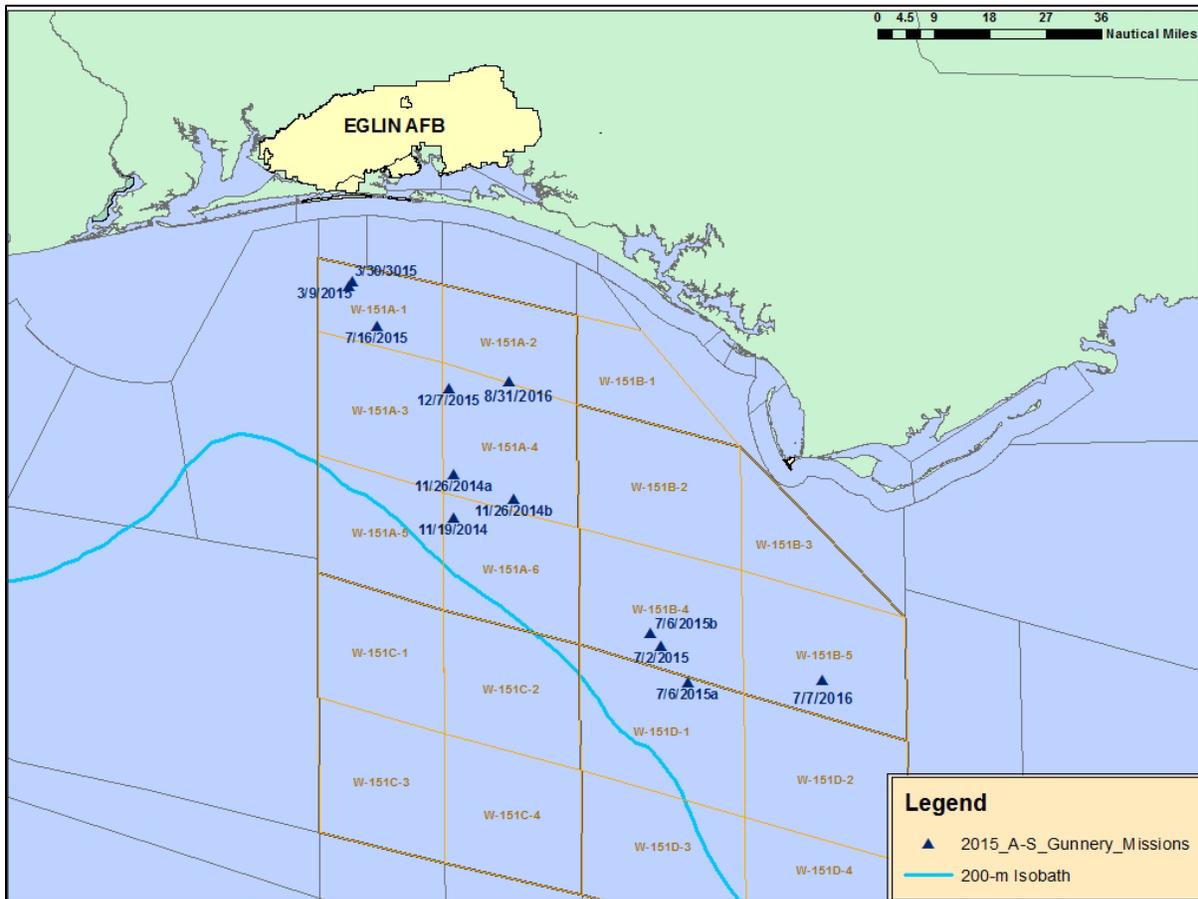


Figure 1. Locations of all A-S Gunnery Missions in the EGTRR During the 2015 Calendar Year

Table 2 summarizes A-S gunnery mission activity from November 2014 through December 2015 and compares it with the annual allocations covered under the existing LOA and BO. As depicted below, the level of A-S gunnery activities conducted in the EGTRR for this reporting period was well below the total amounts authorized per year.

Table 2. Comparison of Permitted vs. Actual Level of A-S Gunnery Mission Activities, November 2014 – December 2015

	# Daytime Missions	# Nighttime Missions	25 mm	40 mm*	105 mm TR	105 mm FU
Total Annual Allotments	25	45	39,200	4,480	1,350	750
Actual Usage	9	3	566	2,277	53	55
Unused Allotments	16	42	38,634	2,203	1,297	695

* 30 mm rounds are counted as 40 mm

Naval Explosive Ordnance Disposal School (NEODS) Training

On October 25, 2004 the BO for the NEODS Training (5-Year Plan) on EGTRR [Consultation No. F/SER/2004/00361] was issued. A new 5-year LOA was issued on April 24, 2012. This

LOA is valid until April 24, 2017. The BO and LOA require a summary report of mission information to the NMFS Southeast Regional Office Protected Resources Division and the NMFS Office of Protected Resources.

No missions involving live mines for the NEODS in the EGTTR occurred during the 2015 calendar year.

Maritime Weapon Systems Evaluation Program (WSEP) Operational Testing

On December 15, 2014 the BO for Maritime Weapon Systems Evaluation Program (WSEP) Operational Testing was issued [Consultation No. SER-2014-14835]. The associated IHA was later issued on February 5, 2015. Terms and conditions of these permits require Eglin Natural Resources to submit a report to NMFS Southeast Regional Office Protected Resources Division and the NMFS Office of Protected Resources in Silver Spring upon completion of all testing activities. Eglin Natural Resources submitted a Final Report to the NMFS's Office of Protected Resources on August 27, 2015. The report described Maritime WSEP activities conducted in 2015, the results of the pre- and post-mission surveys, and evaluated the effectiveness of Eglin's mitigation and monitoring procedures. A summary of this report is included below.

Eight Maritime WSEP missions were conducted between February 9 and March 19, 2015, however not all munitions were released as planned. Of the eight planned mission days, live munitions were released only during four missions that occurred in March. No live ordnance was released during the February missions. Munitions that were actually dropped between March 16 and March 19, 2015 are compared to the total authorized amounts in the IHA and the BO in Table 3.

Table 3. Comparison of Proposed and Actual Live Munitions Released during 2015 Maritime WSEP Missions

Type of Munition	NEW (lbs)	Detonation Type	Total # in IHA & BO	# Released in 2015
GBU-10 or GBU-24	945	Surface	2	0
GBU-12 or GBU- 54 (LJDAM)	192	Surface	6	0
AGM-65 (Maverick)	86	Surface	6	4
CBU-105 (WCMD)	83	Airburst	4	2
GBU-38 (Laser Small Diameter Bomb)	37	Surface	4	0
AGM-114 (Hellfire)	20	Subsurface (10 ft depth)	15	6
AGM-176 (Griffin)	13	Surface	10	0
2.75 Rockets	12	Surface	100	0
PGU-12 HEI 30 mm	0.1	Surface	1,000	0
.50 cal/7.62 mm	Inert	N/A	5,000	0

During the pre-missions surveys conducted for the four mission days in March, sixteen sightings/sighting updates and species indicators were reported. Total protected species observed ranged between 149 and 156 individuals. The majority of the sightings were dolphins and only two sea turtles were observed. For one mission day, pre-mission surveys were extended and the

mission was delayed to continue monitoring the protected species that were detected to ensure they cleared the ZOI and were swimming away from the detonation sites. All other protected species were determined to be clear of the ZOI before the pre-mission surveys ended and the mission began. Post mission surveys did not have any sightings of protected species. This Final Report indicates that Eglin successfully implemented all mitigation and monitoring requirements outlined in the BO and IHA and no takes of protected species occurred.

Eglin Gulf Test and Training Range (EGTTR) Programmatic BO and LOA Request

Eglin Natural Resources submitted a Programmatic BA to NMFS SERO on September 17, 2015 for EGTTR testing and training missions (Consultation No. SER-2015-17273). The Request for an LOA was submitted electronically to NMFS Office of Protected Resources on November 10, 2015. Both consultations are being handled at the NMFS Headquarters level and Eglin Natural Resources has coordinated with NMFS on each document. Future annual reports to NMFS will include updates in these consultation processes.

Eglin Natural Resources believes this satisfies annual reporting requirements for all actions with permits and authorizations from the NMFS. If you have any questions regarding this letter, please do not hesitate to contact either Mr. Rodney Felix (850) 883-1153 or myself at (850) 882-8391.

Sincerely,


BRUCE HAGEDORN
Chief, Eglin Natural Resources

Copy to:

- Mr. Karl Chavous, PSW
- Mr. Mike McGuire, PSW
- Mr. Kenneth Moe Bandy, JASSM
- Mr. Norman Mucklow, JASSM Test Programming Engineer (PSW)
- Mr. James Stott, Air Force Special Operations Command (AFSOC)
- Mr. Tim Andera, Naval Explosive Ordnance Disposal School (NEODS) Training
- Mr. Roger Moore, Maritime WSEP Program Engineer

Appendix A
PROTECTED SPECIES OBSERVER REPORTS
FOR 2015 A-S GUNNERY MISSIONS

PROTECTED SPECIES OBSERVER REPORT FORM

Use a separate form for each mission day

****Complete this section regardless of whether or not protected species are sighted****

Date: 20141126	Observer Name: Maj Brian Taylor	Organization: 413FLTS
Mission Description: AC-130J 30mm Live Fire		
Mission Location:		
Latitude: N29 39	Longitude: W086 23	
# of rounds used (enter for all that apply):		
25 mm	40 mm	105 mm Full Up
		105 mm Training Round
<input checked="" type="checkbox"/> Other (please specify): 30mm x 180, 8x MK-25 flares		
Were any protected species or indicators observed while en route*? NO		
Arrival Time at Site: 1030		
Pre-Mission Survey:		
Start time: 1030	End time: 1045	
Were any protected species or indicators observed*? NO		
Mission Times:		
Start time: 1045	End time: 1215	
Were any protected species or indicators observed*? NO		
Post-Mission Survey:		
Start time: 1215	End time: 1245	
Were any protected species or indicators observed*? NO		
If the mission was cancelled due to environmental concerns, please state the reason(s):		

*If "Yes", complete the following section for each sighting that was observed.

Submit this completed form and any sighting information to the Eglin Natural Resources Section within 48 hours after completion of the mission.

POC: Amanda Robydek: amanda.robbydek.ctr@eglin.af.mil

**To report a dead or injured protected animal:
Contact Bruce Hagedorn at 882-8421 or Amanda Robydek 882-8395 immediately.**

Sea State Scale for Marine Mammal and Sea Turtle Observation

Scale Number	Sea Conditions
0	Flat calm, no waves or ripples
1	Small wavelets, few if any whitecaps
2	Whitecaps on 0-33% of surface; 0.3 to 0.6 m (1 to 2 feet) waves
3	Whitecaps on 33-50% of surface; 0.6 to 0.9 m (2 to 3 feet) waves
4	Whitecaps on greater than 50% of surface; greater than 0.9 m (3 feet) waves

PROTECTED SPECIES OBSERVER REPORT FORM

Use a separate form for each mission day

****Complete this section regardless of whether or not protected species are sighted****

Date: 9 APR 15	Observer Name: CAPT CORIANO RUIZ	Organization: 4505
Mission Description: LIVE FIRE W/ST A1,3,5		
Mission Location:		
Latitude: 30 10.21		Longitude: 086 41.64
# of rounds used (enter for all that apply):		
350 25 mm 76 40 mm 5 105 mm Full Up 105 mm Training Round		
30 mm 20 Other (please specify): MK 25 FLARES		
Were any protected species or indicators observed while en route**? Y <input checked="" type="radio"/> N		
Arrival Time (Local) at Site: 1730		
Pre-Mission Survey:		
Start time (Local): 1740		End time (Local): 1750
Were any protected species or indicators observed**? Y <input checked="" type="radio"/> N		
Mission Times:		
Start time (Local): 1750		End time (Local): 1925
Were any protected species or indicators observed**? Y <input checked="" type="radio"/> N		
Post-Mission Survey:		
Start time (Local): 1930		End time (Local): 1935
Were any protected species or indicators observed**? Y <input checked="" type="radio"/> N		
If the mission was cancelled due to environmental concerns, please state the reason(s):		

*If "Yes", complete the following section for each sighting that was observed.

Submit this completed form and any sighting information to the Eglin Natural Resources within 48 hours after completion of the mission.

POC: Amanda Robydek: amanda.robbydek.ctr@eglin.af.mil; 882-8395

To report a dead or injured protected animal:

Daytime Missions POC: Jeremy Preston – 850-883-1153

Nighttime Missions POC: Jeremy Preston – 850-612-0902 or

Bruce Hagedorn – 850-902-6004

Sea State Scale for Marine Mammal and Sea Turtle Observation

Scale Number	Sea Conditions
0	Flat calm, no waves or ripples
1	Small wavelets, few if any whitecaps
2	Whitecaps on 0-33% of surface; 0.3 to 0.6 m (1 to 2 feet) waves
3	Whitecaps on 33-50% of surface; 0.6 to 0.9 m (2 to 3 feet) waves
4	Whitecaps on greater than 50% of surface; greater than 0.9 m (3 feet) waves

PROTECTED SPECIES OBSERVER REPORT FORM

Use a separate form for each test day

****Complete this section regardless of whether or not protected species are sighted****

Date: 30Mar15 Observer Name: Bradbury Organization: 4SOS
Mission Description: Towed Target Live Fire
Mission Location: Latitude: N 30 09.5 Longitude: W 086 42.16
of rounds used (enter for all that apply): 6 25 mm 100 40 mm 50 105 mm Full Up 0 105 mm Training Round Other (please specify):
Were any protected species or indicators observed while en route**? N
Arrival Time (Local) at Site: 1800L
Pre-Mission Survey: Start time (Local): 1800L End time (Local): 1815 Were any protected species or indicators observed**? N
Mission Times: Start time (Local): 1800L End time (Local): 2000L Were any protected species or indicators observed**? N
Post-Mission Survey: Start time (Local): 1945L End time (Local): 2000L Were any protected species or indicators observed**? N
If the mission was cancelled due to environmental concerns, please state the reason(s): Nothing observed before, after or during mission

***If "Yes", complete the following section for each sighting that was observed.**

Submit this completed form and any sighting information to the Eglin Natural Resources Section within 48 hours after completion of the mission.
POC: Amanda Robydek: amanda.robbydek.ctr@eglin.af.mil; 882-8395

**To report a dead or injured protected animal:
Contact Jeremy Preston at 883-1153 immediately.**

Sea State Scale for Marine Mammal and Sea Turtle Observation

Scale Number	Sea Conditions
0	Flat calm, no waves or ripples
1	Small wavelets, few if any whitecaps
2	Whitecaps on 0-33% of surface; 0.3 to 0.6 m (1 to 2 feet) waves
3	Whitecaps on 33-50% of surface; 0.6 to 0.9 m (2 to 3 feet) waves
4	Whitecaps on greater than 50% of surface; greater than 0.9 m (3 feet)

PROTECTED SPECIES OBSERVER REPORT FORM

Use a separate form for each mission day

****Complete this section regardless of whether or not protected species are sighted****

Date: 2 July 15	Observer Name: Michael Passmore	Organization: 413 FCTS
Mission Description: AC-130J Live Fire		
Mission Location: W151B3		
Latitude:	N2911	Longitude: W 08545
# of rounds used (enter for all that apply):		
25 mm _____ 40 mm _____ 105 mm Full Up _____ 105 mm Training Round _____		
2 Other (please specify): MK 25 marine marker		
Were any protected species or indicators observed while en route**? Y (N)		
Arrival Time at Site: 13:00		
Pre-Mission Survey:		
Start time: 13:05 End time: 13:20		
Were any protected species or indicators observed**? Y (N)		
Mission Times:		
Start time: 13:20 End time: 13:30		
Were any protected species or indicators observed**? Y (N)		
Post-Mission Survey:		
Start time: 13:35 End time: 13:45		
Were any protected species or indicators observed**? Y (N)		
If the mission was cancelled due to environmental concerns, please state the reason(s):		

*If "Yes", complete the following section for each sighting that was observed.

Submit this completed form and any sighting information to the Eglin Natural Resources Section within 48 hours after completion of the mission.

POC: Amanda Robydek: amanda.robbydek.ctr@eglin.af.mil

**To report a dead or injured protected animal:
Contact Bruce Hagedorn at 882-8421 or Amanda Robydek 882-8395 immediately.**

Sea State Scale for Marine Mammal and Sea Turtle Observation

Scale Number	Sea Conditions
0	Flat calm, no waves or ripples
1	Small wavelets, few if any whitecaps
2	Whitecaps on 0-33% of surface; 0.3 to 0.6 m (1 to 2 feet) waves
3	Whitecaps on 33-50% of surface; 0.6 to 0.9 m (2 to 3 feet) waves
4	Whitecaps on greater than 50% of surface; greater than 0.9 m (3 feet) waves

PROTECTED SPECIES OBSERVER REPORT FORM

Use a separate form for each mission day

****Complete this section regardless of whether or not protected species are sighted****

Date: 20150706 Observer Name: Capt Chris Marr Organization: 413FLTS
Mission Description: AC-130J 30mm Live Fire
Mission Location: Latitude: N29 05 Longitude: W08540
of rounds used (enter for all that apply): ____ 25 mm ____ 40 mm ____ 105 mm Full Up ____ 105 mm Training Round ____ Other (please specify): 30mm x 450
Were any protected species or indicators observed while en route*? NO
Arrival Time at Site: 1330
Pre-Mission Survey: Start time: 1330 End time: 1400
Were any protected species or indicators observed*? NO
Mission Times: Start time: 1400 End time: 1440
Were any protected species or indicators observed*? NO
Post-Mission Survey: Start time: 1440 End time: 1455
Were any protected species or indicators observed*? NO
If the mission was cancelled due to environmental concerns, please state the reason(s): _____ _____

***If "Yes", complete the following section for each sighting that was observed.**

Submit this completed form and any sighting information to the Eglin Natural Resources Section within 48 hours after completion of the mission.

POC: Amanda Robydek: amanda.robbydek.ctr@eglin.af.mil

**To report a dead or injured protected animal:
Contact Bruce Hagedorn at 882-8421 or Amanda Robydek 882-8395
immediately.**

Sea State Scale for Marine Mammal and Sea Turtle Observation

Scale Number	Sea Conditions
0	Flat calm, no waves or ripples
1	Small wavelets, few if any whitecaps
2	Whitecaps on 0-33% of surface; 0.3 to 0.6 m (1 to 2 feet) waves
3	Whitecaps on 33-50% of surface; 0.6 to 0.9 m (2 to 3 feet) waves
4	Whitecaps on greater than 50% of surface; greater than 0.9 m (3 feet) waves

PROTECTED SPECIES OBSERVER REPORT FORM

Use a separate form for each mission day

****Complete this section regardless of whether or not protected species are sighted****

Date: 7/7/2015	Observer Name: Michael Passmore	Organization: 413 FLT5
Mission Description:	AC-130J 30mm GAU-Functionality & Gun Gas <small>collection test</small>	
Mission Location:	16RFT 69739 19785 / W15185	
Latitude:	Longitude:	
# of rounds used (enter for all that apply):	25 mm _____ 40 mm _____ 105 mm Full Up _____ 105 mm Training Round _____	
450 Other (please specify):	30mm & 2 x Mk 25 mine markers	
Were any protected species or indicators observed while en route? Y (N)		
Arrival Time at Site:	10:40	
Pre-Mission Survey:	Start time: 10:42 End time: 10:58	
Were any protected species or indicators observed? Y (N)		
Mission Times:	Start time: 11:15 End time: 11:31	
Were any protected species or indicators observed? Y (N)		
Post-Mission Survey:	Start time: 11:36 End time: 11:46	
Were any protected species or indicators observed? Y (N)		
If the mission was cancelled due to environmental concerns, please state the reason(s): _____		

***If "Yes", complete the following section for each sighting that was observed.**

Submit this completed form and any sighting information to the Eglin Natural Resources Section within 48 hours after completion of the mission.
POC: Amanda Robydek: amanda.robbydek_ctr@eglin.af.mil

**To report a dead or injured protected animal:
Contact Bruce Hagedorn at 882-8421 or Amanda Robydek 882-8395 immediately.**

Sea State Scale for Marine Mammal and Sea Turtle Observation

Scale Number	Sea Conditions
0	Flat calm, no waves or ripples
1	Small wavelets, few if any whitecaps
2	Whitecaps on 0-33% of surface; 0.3 to 0.6 m (1 to 2 feet) waves
3	Whitecaps on 33-50% of surface; 0.6 to 0.9 m (2 to 3 feet) waves
4	Whitecaps on greater than 50% of surface; greater than 0.9 m (3 feet) waves

PROTECTED SPECIES OBSERVER REPORT FORM

Use a separate form for each mission day

****Complete this section regardless of whether or not protected species are sighted****

Date: 08-31-2015 Observer Name: Capt Bushaw Organization: 4 SOS
Mission Description: AC130 Live Fire
Mission Location: W151A2 W151A4
of rounds used (enter for all that apply): 60- 25 mm 64 40 mm 30 105 mm Full Up ___ 105 mm Training Round ___ Other (please specify): ___ 105 mm prox round ___
Were any protected species or indicators observed while en route*? Yes/No
Arrival Time at Site: 1530
Pre-Mission Survey: Start time: 1530 ___ End time: 1545 ___
Were any protected species or indicators observed*? No
Mission Times: Start time: 1545 ___ End time: 1645 ___
Were any protected species or indicators observed*? No
Post-Mission Survey: Start time: 1645 ___ End time: 1700 ___
Were any protected species or indicators observed*? No
If the mission was cancelled due to environmental concerns, please state the reason(s): _NA_

***If "Yes", complete the following section for each sighting that was observed.**

Submit this completed form and any sighting information to the Eglin Natural Resources Section within 48 hours after completion of the mission.

POC: Amanda Robydek: amanda.robbydek.ctr@eglin.af.mil

**To report a dead or injured protected animal:
Contact Bruce Hagedorn at 882-8421 or Amanda Robydek 882-8395
immediately.**

Sea State Scale for Marine Mammal and Sea Turtle Observation

Scale Number	Sea Conditions
0	Flat calm, no waves or ripples
1	Small wavelets, few if any whitecaps
2	Whitecaps on 0-33% of surface; 0.3 to 0.6 m (1 to 2 feet) waves
3	Whitecaps on 33-50% of surface; 0.6 to 0.9 m (2 to 3 feet) waves
4	Whitecaps on greater than 50% of surface; greater than 0.9 m (3 feet) waves

PROTECTED SPECIES OBSERVER REPORT FORM

Use a separate form for each mission day

****Complete this section regardless of whether or not protected species are sighted****

Date: 7 Dec 15	Observer Name: MARTIN, RANDY	Organization: 5 SCS
Mission Description: Towed tgt, Truck point S		
Mission Location: Latitude: $N 29^{\circ} 52.889'$ Longitude: $W 086^{\circ} 23.702'$		
# of rounds used (enter for all that apply): 150 25 mm 37 40 mm 0 105 mm Full Up 23 105 mm Training Round 30 mm Other (please specify):		
Were any protected species or indicators observed while en route*? Y (N)		
Arrival Time (Local) at Site: 1640		
Pre-Mission Survey: Start time (Local): 1708 End time (Local): 1715		
Were any protected species or indicators observed*? Y (N)		
Mission Times: Start time (Local): 1719 End time (Local): 1829		
Were any protected species or indicators observed*? Y (N)		
Post-Mission Survey: Start time (Local): 1830 End time (Local): 1836		
Were any protected species or indicators observed*? Y (N)		
If the mission was cancelled due to environmental concerns, please state the reason(s):		

*If "Yes", complete the following section for each sighting that was observed.

Submit this completed form and any sighting information to the Eglin Natural Resources within 48 hours after completion of the mission.

POC: Amanda Robydek: amanda.robbydek.ctr@eglin.af.mil; 882-8395

To report a dead or injured protected animal:

Daytime Missions POC: Jeremy Preston – 850-883-1153

Nighttime Missions POC: Jeremy Preston – 850-612-0902 or

Bruce Hagedorn – 850-902-6004

Sea State Scale for Marine Mammal and Sea Turtle Observation

Scale Number	Sea Conditions
0	Flat calm, no waves or ripples
1	Small wavelets, few if any whitecaps
2	Whitecaps on 0-33% of surface; 0.3 to 0.6 m (1 to 2 feet) waves
3	Whitecaps on 33-50% of surface; 0.6 to 0.9 m (2 to 3 feet) waves
4	Whitecaps on greater than 50% of surface; greater than 0.9 m (3 feet) waves