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~~CONFIDENTIAL~~

SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
	33	17	1	2	Z	10	

MISSION OR EXERCISE	SONAR SYSTEM(s)
	BQY-1

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM B ARRAY	SYSTEM C TRACKER	DIRECTION/LEVEL TRUE BRG	DIRECTION/LEVEL MOVEMENT	DIRECTION/LEVEL D S/N RATIO	SOLUTION RANGE (kyd)	SOLUTION COURSE	SOLUTION SPEED	SOLUTION AOB (P/S deg)	SOLUTION RNG RATE
1935		96	TUG	B	314	G	+5						
1944		97	TR	A	047	C	+2						
/		96		D	016	F	–						
1946		96		B	025	G	-7						
1947		96		B	009	K	/						
1950		98		C	064	G	-15						
1951		98		C	016	H	–						
1953		97		A	135	I	/						
1957		98	USN AUAL SHIP	C	060	G	TC						
2004		99		D	093	G	+1						
2011		99		D	204	I	/						
2014		98		D	064	I	/						
2019		98		C	324	G	-2						
2021		98		C	271	I	/						

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
		14	1	2	2	10	

MISSION OR EXERCISE	SONAR SYSTEM(s)

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM B ARRAY	SYSTEM C TRACKER	DIRECTION/LEVEL TRUE BRG	DIRECTION/LEVEL D MOVEMENT	DIRECTION/LEVEL D S/N RATIO	SOLUTION RANGE (kyd)	SOLUTION COURSE	SOLUTION SPEED	SOLUTION AOB (P/S deg)	SOLUTION RNG RATE
1720		75	SURFACE	XX	C	349	G	-30					
/		79	SURFACE	XX	B	129	G	+3					
1735		75	SURFACE	X	C	349	K						
/		76	SURFACE	XX	D	343	I						
/		79	SURFACE	XX	B	195	I						
1746		73		XX	A	055	T						
/		80		XX	C	075	T						
/		79		XX	B	213	G	+10					
/		76		XX	C	293	G	-13					
1750		81	SURFACE	XX	D	243	G	+9					
1755		81	SURFACE	XX	D	239	F						
1756		82	SURFACE	XX	D	223	G	+6					
1804		81		XX	A	235	G	+8					
1807		79		X	B	134	I	/					
1811		73		X	D	014	G	-6					
/		83		X	B	042	G	-1					
/		81		X	A	236	I	/					

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
	CS	13	1	2	R	16	

MISSION OR EXERCISE	SONAR SYSTEM(s)

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM B ARRAY	SYSTEM C TRACKER	DIRECTION/LEVEL TRUE BRG	DIRECTION/LEVEL MOVEMENT	DIRECTION/LEVEL D S/N RATIO	SOLUTION RANGE (kyd)	SOLUTION COURSE	SOLUTION SPEED	SOLUTION AOB (P/S deg)	SOLUTION RNG RATE
1630		70			A	021	K						
/		71			C	045	K						
1635		66	SURFACE	XX	D	304	K						
1640		72	SURFACE	XX	D	092	G	-14					
1642		71	SURFACE	XX	C	017	G	-5					
1644		73	SURFACE	XX	A	130	G	+3					
/		69	SURFACE	XX	B	040	K						
1654		74	SURFACE	XX	B	034	G	+3					
1655		71		XX	C	019	K						
/		72		XX	D	094	K						
1702		74		XX	B	009	H						
1705		75	SURFACE	XX	C	023	G	-05					
1708		76	SURFACE	XX	D	058	G	+1					
/		77		XX	B	354	G	-11					
1710		73		XX	A	090	L	-4					
1715		78		XX	B	014	G	+3					
1720		78		XX	B	014	K						

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
	36	12	1	2	Z	10	

MISSION OR EXERCISE	SONAR SYSTEM(s)
	AN/BSY-1

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM		DIRECTION/LEVEL			SOLUTION				
				[redacted]	B ARRAY	C TRACKER	TRUE BRG	D MOVEMENT	S/N RATIO	RANGE (kyd)	COURSE	SPEED	AOB (P/S deg)	RNG RATE
1545		64	TRAWLER			A	332	R	-8					
/		58	TRAWLER			B	009	R	+35					
/		62	SURFACE			C	247	R	-1					
/		65	SURFACE			D	085	R	-8					
1600		66				D	332	G	+6					
/		64				A	317	K						
/		58				B	021	R	+11					
/		67				C	276	R	-16					
1614		67				C	248	K	/					
/		68	LIGHTCRAFT			C	019	G	0					
/		58				B	057	H	-					
1617		69				B	029	G	+1					
/		70	TRAWLER			A	004	G	-3					
1621		70				A	006	K	/					
1623		68				C	235	I	/					
1626		70				A	606	I	/					
1627		71				C	855	G	+2					
/		70				A	017	G	+3					

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
		11	1	2	2	10	

MISSION OR EXERCISE	SONAR SYSTEM(s)
	BSY-1

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM B ARRAY	SYSTEM C TRACKER	DIRECTION/LEVEL TRUE BRG	DIRECTION/LEVEL MOVEMENT	DIRECTION/LEVEL D S/N RATIO	SOLUTION RANGE (kyd)	SOLUTION COURSE	SOLUTION SPEED	SOLUTION AOB (P/S dep)	SOLUTION RNG RATE
1457		48		C	112	G	-4						
1500		49		C	248	I							
1502		54		D	312	I							
/		58		B	178	G	+30						
1507		57		B	194	I							
1510		56		B	176	G	+6						
/		50		A	005	I							
1514		59		C	050	G	+2						
/		60		D	075	G	-2						
1519		59	SURFACE	C	070	I							
1519		60	SURFACE	D	065	I							
1522		62		C	244	G	-5						
1525		58	OCEAN LINER	B	331	R	+15		6				
1532		63		D	302	G	-30						
/		64		A	326	G	-9						
1533		65		C	070	G	-6						
/		63		D	301	F							

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
		9	1	2	Z	10	

MISSION OR EXERCISE	SONAR SYSTEM(s)
	BSY-1

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM B ARRAY	SYSTEM C TRACKER	DIRECTION/LEVEL TRUE BRG	DIRECTION/LEVEL MOVEMENT	DIRECTION/LEVEL D S/N RATIO	[redacted]	SOLUTION RANGE (kyd)	SOLUTION COURSE	SOLUTION SPEED	SOLUTION AOB (P/S deg)	SOLUTION RNG RATE
1250		56		A	019	G	+1							
1256		521		D	344	L	-5							
/		55		B	044	L	+1							
1301		55		B	079	F								
1307		56		A	012	J								
1309		54		D	239	J								
1311		48		C	302	J								
1316		51		D	333	G	-3							
1317		56		A	009	G	+1							
1318		48		C	297	G	+1							
1330		48		C	282	L	-2							
/		54		D	34	L	+1			18				
/		58		A	017	R	-1							
1345		48		C	261	L	-2							
/		34		D	317	L	+8							
/		56		A	015	L	+1							
		+												
		-												

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
		8	1	2	2	10	

MISSION OR EXERCISE	SONAR SYSTEM(s)
	BSY-1

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM: ARRAY	SYSTEM: TRACKER (B)	SYSTEM: TRUE BRG (C)	DIRECTION/LEVEL: MOVEMENT	DIRECTION/LEVEL: S/N RATIO (D)	SOLUTION: RANGE (kyd)	SOLUTION: COURSE	SOLUTION: SPEED	SOLUTION: AOB (P/S deg)	SOLUTION: RNG RATE
0951		50			B	299	F						
1003		48			C	267	R	+7					
1015		52			D	340	G	-7					
1023		52			D	357	I						
/		48			C	308	R	+9					
1039		48			C	331	R	-8					
1050		48			C	340	I						
1107		48			C	344	G	-9					
1120		48			C	333	I						
1121		53			D	356	G	-9					
1128		53			D	358	F						
1204		48			C	330	G	-2					
1219		48			C	327	L	-10					
1234		48			C	323	L	-16					
1236		54			D	355	G	+1					
1241		55			B	357	G	-7					
1249		48			C	314	L	+7					

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
		07	1	2	Z	10	

MISSION OR EXERCISE	SONAR SYSTEM(s)
	AN/BSY-1

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM B ARRAY	SYSTEM C TRACKER	DIRECTION/LEVEL TRUE BRG	DIRECTION/LEVEL MOVEMENT	DIRECTION/LEVEL D S/N RATIO	SOLUTION RANGE (kyd)	SOLUTION COURSE	SOLUTION SPEED	SOLUTION AOB (P/S deg)	SOLUTION RNG RATE
0805		045		x	B	352	I	/					
0812		041		x	D	149	F	/					
0835		046		x	D	038	G	-3					
0843		044		x	C	0016	F	/					
0846		046		x	D	129	F	/					
0910		047	SURFACE	x	B	255	G	+8					
0914		048			C	335	G	+7					
0925		47			B	359	L	0					
0928		47			B	350	F						
/		48			C	230	L	+7					
0932		49			D	315	G	+30					
0936		50			B	291	G	-9					
0941		51			D	316	G	+30					
0943		50			B	293	F						
0948		46			C	238	R	+					
/		50			B	296	G	-15					
0955		51			B	326	I						

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ACOUSTIC SEA STATE (0-9)

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
		06	1	2	Z	10	

MISSION OR EXERCISE	SONAR SYSTEM(s)
	AN/BSY-1

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM		DIRECTION/LEVEL			SOLUTION				
				[redacted] B ARRAY	C TRACKER	TRUE BRG	MOVEMENT	D S/N RATIO	RANGE (kyd)	COURSE	SPEED	AOB (P/S deg)	RNG RATE
0531		038	Trawler	X	B	017	G	+1					
0547		037		V	C	026	K	/					
/		039	Surface	X	C	022	G	+4					
0550		038		X	B	327	T	/					
0619		036		X	D	040	F	/					
0636		039	Cutter	X	C	069	R	+3					
0639		041	Warship	X	D	335	G	+6					
0648		039		X	C	088	I	/					
/		042	Surface	X	B	300	G	+5					
0651		043		X	C	328	G	+7					
0717		043		X	C	001	I	/					
0719		042		X	B	323	I	/					
0730		041	Warship	X	D	152	L	-5					
0752		044		X	C	065	G	-5					
0754		045		X	B	001	G	+5					
/		041	Warship	X	D	147	F	/					
0755		041		X	D	147	G	-30					

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TIME ARRAY TYPE

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
	42	3	1	2	Z	10	

MISSION OR EXERCISE	SONAR SYSTEM(s)
	AN/BSY-1

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM B ARRAY	SYSTEM C TRACKER	DIRECTION/LEVEL TRUE BRG	DIRECTION/LEVEL MOVEMENT	DIRECTION/LEVEL D S/N RATIO	SOLUTION RANGE (kyd)	SOLUTION COURSE	SOLUTION SPEED	SOLUTION AOB (P/S deg)	SOLUTION RNG RATE
0139		022	LIGHTCRAFT	X	C	322	M						
0139		017	LIGHTCRAFT	X	D	350	L	-6					
0139		019	LIGHTCRAFT	X	B	030	L	-3					
0142		017	LIGHTCRAFT	X	D	348	I						
0145		019	LIGHTCRAFT	X	B	027	I						
0148		025	SURFACE	X	A	311	G	-2					
0153		023	SURFACE	X	A	300	E	-30					
0153		026	SURFACE	X	C	320	G	+2					
0153		023	SURFACE	X	A	284	H						
0205		035		XX	A	310	G	-5					
0206		026		XX	C	357	R	-16					
0219		027	SURFACE	XX	D	073	G	+6					
0229		025		XX	A	327	F	-8					
0239		026		XX	C	333	I						
0241		028	SURFACE	XX	C	234	G	+1					
		027		XX	D	066	F						
0248		028		XX	C	283	F						

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
	32	2	1	2	Z	10	

MISSION OR EXERCISE	SONAR SYSTEM(s)
	AN/BSY-1

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM B ARRAY	SYSTEM C TRACKER	DIRECTION/LEVEL TRUE BRG	DIRECTION/LEVEL MOVEMENT	DIRECTION/LEVEL D S/N RATIO	SOLUTION RANGE (kyd)	SOLUTION COURSE	SOLUTION SPEED	SOLUTION AOB (P/S deg)	SOLUTION RNG RATE
0101		017	LIGHT CRAFT	X	D	044	I						
0101		019	LIGHT CRAFT	X	B	052	I						
0102		026	~~SURFACE~~	X	C	105	G	76					
0105		020	LIGHT CRAFT	X	C	110	I						
0110		021	SURFACE	X	C	245	G	-4					
0113		021	LIGHT CRAFT	X	C	261	R	-17					
0113		021	LIGHT CRAFT	X	C	261	F						
0116		017	LIGHT CRAFT	X	D	026	G	+6					
0116		019	LIGHT CRAFT	X	B	033	G	-4					
0122		017	LIGHT CRAFT	X	D	013	L	+7					
0126		022	SURFACE	X	C	330	G	0					
0128		019	LIGHT CRAFT	X	B	039	R	+3					
0129		023	SURFACE	X	A	023	G	-2					
0133		022	LIGHT CRAFT	X	C	327	R	-8					
0134		023	SURFACE	X	A	342	T						
0136		024	SURFACE	X	A	255	G	-1					
0136		024	HELO	X	A	295	T						

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
	42	1	1	2	2	10	

MISSION OR EXERCISE	SONAR SYSTEM(s)
	BSY-1

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM B ARRAY	SYSTEM C TRACKER	DIRECTION/LEVEL TRUE BRG	DIRECTION/LEVEL D MOVEMENT	DIRECTION/LEVEL D S/N RATIO	SOLUTION RANGE (kyd)	SOLUTION COURSE	SOLUTION SPEED	SOLUTION AOB (P/S deg)	SOLUTION RNG RATE
0002		012	Surface	XX	C	306	L	-15					
0003		017	Surface	XX	D	000	T						
0010		012	Surface	XX	C	311	F						
0011		012	Surface	XX	C	309	G	+1					
0014		012	Surface	XX	C	314	F						
0022		012	Surface	XX	C	329	G	-11					
0027		017	Surface	XX	D	061	G	-7					
0022		012	Surface	XX	C	320	I						
0035		017	LIGHT MERCHANT	XX	D	075	R	-16					
0036		018	Surface	XX	C	342	G	+4					
0048		019	Surface	XX	B	070	G	+3					
0049		018	Surface	XX	C	108	R	+1					
0050		018	Surface	XX	C	113	K						
0052		019	LIGHT CRAFT	XX	B	069	L	0					
0052		017	LIGHT CRAFT	XX	D	046	L	+8					
0057		020	Surface	XX	C	189	G	-7°					
0057		020	Surface	XX	C	189	M	-7°					

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
	42	4	1	2	Z	9	

MISSION OR EXERCISE	SONAR SYSTEM(s)
	BSY-1

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM		DIRECTION/LEVEL			SOLUTION				
				ARRAY	B TRACKER	C TRUE BRG	MOVEMENT	D S/N RATIO	RANGE (kyd)	COURSE	SPEED	AOB (P/S deg)	RNG RATE
2341		012	Surface	X	C	311	F						
2341		014	Surface	X	B	339	F						
2345		013	SURFACE	X	D	309	L	+9					
2346		015	SURFACE #1	X	C	078	G	-2					
2346		015	SURFACE	X	C	076	F						
2346		016	SURFACE	X	A	174	G						
2348		013	SURFACE	X	D	340	I						
2350		014	SURFACE	X	B	350	M	+11					
2352		012	SURFACE	X	C	309	G	-31					
2357		012	SURFACE	X	C	318	T						
2357		012	SURFACE	X	C	310	G	+7					
2358		012	SURFACE	X	D	348	G	+19					

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
	42	3	1	2	Z	9	

MISSION OR EXERCISE	SONAR SYSTEM(s)
	BSY-1

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM B ARRAY	SYSTEM C TRACKER	DIRECTION/LEVEL TRUE BRG	DIRECTION/LEVEL D MOVEMENT	DIRECTION/LEVEL D S/N RATIO	SOLUTION RANGE (kyd)	SOLUTION COURSE	SOLUTION SPEED	SOLUTION AOB (P/S deg)	SOLUTION RNG RATE
2240		013	SURFACE	X	B	359	G	-19					
2242		010	LIGHT CRAFT	X	C	202	G	-8					
2242		013	SURFACE	X	B	359	F						
2246		010	LIGHT CRAFT	X	C	174	I						
2256		013	SURFACE	X	D	001	G	-11					
2256		012	SURFACE	X	C	328	G	-4					
2311		012	SURFACE	X	C	334	H						
2312		013	SURFACE	X	D	007	R	-14					
2312		012	SURFACE	X	C	322	G	-5					
2325		013	SURFACE	X	D	009	F						
2325		012	SURFACE	X	C	320	F						
2328		013	SURFACE	X	D	004	G	-5					
2330		013	SURFACE	X	D	008	F						
2332		013	SURFACE	X	D	001	G	-8					
2332		012	SURFACE	X	C	315	G	-9					
2332		014	SURFACE	X	B	358	G	+1					

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
	33	2	1	2	2	9	

MISSION OR EXERCISE	SONAR SYSTEM(s)
	BSY-1

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM		DIRECTION/LEVEL			SOLUTION				
				[redacted] ARRAY	B TRACKER	C TRUE BRG	MOVEMENT	D S/N RATIO	RANGE (kyd)	COURSE	SPEED	AOB (P/S deg)	RNG RATE
2026		007	SURFACE	X	D	236	I						
2026		008	SURFACE	X	B	198	G	-1					
2028		006	MERCHANT	X	C	012	M	+1					
2031		008	SURFACE	X	B	201	F						
2032		006	MERCHANT	X	C	012	I						
2046		009	SURFACE	X	B	047	G	+7					
2047		009	SURFACE	X	B	043	I						
2140		010	SURFACE	X	C	262	G	-10					
2142		010	LIGHT CRAFT	X	C	263	R	-5					
2149		011	MERCHANT	Y	D	116	G	-13					
2203		010	LIGHT CRAFT	X	C	296	R	+5					
2205		011	MERCHANT	X	D	114	L	-6					
2213		011	MERCHANT	X	D	114	I						
2225		010	LIGHT CRAFT	X	C	247	L	-4					
2230		012	SURFACE	X	D	332	G	-6					
2233		013	SURFACE	X	B	357	G	+7					
2235		012	SURFACE	X	D	324	F						
2235		010	LIGHT CRAFT	X	C	324	I						
2235		013	SURFACE	X	B	359	F						

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SUBMARINE ACTIVE/PASSIVE SONAR LOG

SECTION	LOG KEEPER	SHEET SERIAL	YEAR	MONTH	ZONE	DAY	
	42	01	1	02	Z	09	

MISSION OR EXERCISE	SONAR SYSTEM(s)
	AN/BSY-1 / AN/BQQ-10

TIME	MASTER CONTACT NUMBER	SONAR CONTACT NUMBER	CONTACT CLASSIFICATION	SYSTEM [redacted] B	SYSTEM C	DIRECTION/LEVEL TRUE BRG	DIRECTION/LEVEL D MOVEMENT	DIRECTION/LEVEL S/N RATIO	[redacted]	[redacted]	SOLUTION RANGE (kyd)	SOLUTION COURSE	SOLUTION SPEED	SOLUTION AOB (P/S deg)	SOLUTION RNG RATE
		ARRAY	TRACKER												
1947		002	TANKER	XX	C	160	G	+7							
1850		003	MERCHANT	XX	D	103	G	-1							
1853		004	MERCHANT	XX	B	100	G	+1							
1858		005	MERCHANT	XX	A	231	G	-1							
1903		003	MERCHANT	XX	D	044	I								
1907		005	MERCHANT	XX	A	248	F								
1903		004	MERCHANT	XX	B	093	T								
1906		002	TANKER	XX	C	065	I				1.5				
1912		006	MERCHANT	XX	C	165	G	-6							
1915		008	MERCHANT	XX	C	157	L	-9							
1938		006	MERCHANT	XX	C	144	L	+3							
1949		007	SURFACE	XX	D	147	G	+7							
1958		008	MERCHANT	XX	C	087	L	+4							
2004		007	SURFACE	XX	D	194	R	+8							
2011		007	SURFACE	XX	D	207	F								
2019		007	SURFACE	XX	D	229	G	+5							
2019		006	MERCHANT	XX	C	039	L	+4							

(6)(1)

(6)(1)

Tab 10