

ON SLOW COUNTY

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
FORM 28-D

INDEX TO TRIANGULATION DATA

NORTH CAROLINA NAME OF STATION	GEOGRAPHIC POSITION		PLANE COORDINATES			DESCRIPTION			53
	VOL.	PAGE	ZONE	PAGE	ZONE	PAGE	BOOK	PAGE	
NEW HANOVER COUNTY CONTINUED									
WILLET	2	525	1	171			476	15	
WILMINGTON									
WILMINGTON	1	40	1	36			786	1	13
WILMINGTON	1	40	1	36			786	14	
AMERICAN AGRIC CHEM CO TANK	1	132					786	1	2
AM BANK AND TRUST CO FLAGSTAFF	2	593	1	196			477	15	
ATLANTIC COAST LINE OFFICE CUPOLA	2	592	1	193			477	6	
ATLANTIC COAST LINE STA FLAGSTAFF	2	592	1	196					
BEACH DANCE HALL FLAGPOLE							477	10	
CHAUDBOURNS MIDDLE STACK	2	595	1	197			477	16	
CITY WATER TANK	2	589	1	194			477	16	
CLYDE WHARF N FLAGSTAFF	2	594	1	197			477	15	
COUNTY COURTHOUSE CUPOLA	2	592	1	195			477	15	
FIFTH AVE M E CHURCH SPIRE	2	594	1	196			477	6	
FIRST BAPTIST CHURCH SPIRE 1908	2	592	1	195			477		
FIRST BAPTIST CHURCH SPIRE 1932	1	134	1	71			477	13	
FIRST PRESBYTERIAN CHURCH SPIRE	2	592	1	196			477	15	
GRACE M E CHURCH SPIRE	2	593	1	196			477	15	
HARPER'S WHARF SQUARE TOWER	2	593	1	196			477	6	
HIGH STACK	1	134	1	71					
HIGHEST STACK	1	134	1	71					
LARGE IRON STACK	2	595	1	195			477	16	
LONG GREY SHED WEST GABLE	2	593	1	196			477	15	
LOW CHURCH SPIRE	1	133	1	70					
MAFFIT BLDG W FLAGSTAFF	2	590	1	195			477	15	
MARKET HOUSE CUPOLA	2	593	1	196			477	6	
MASONIC BUILDING FLAGSTAFF	2	592	1	196			477	6	
MUNICIPAL INCINERATOR STACK	1	134	1	71			786	1	
MUNICIPAL WATER WORKS TANK	1	589	1	194			786	1	
MURCHISON NAT BANK FLAGSTAFF	2	590	1	195			477	15	
N C SHIPBUILDING CO STACK	2	553	1	181			786	2	
N C SHIPBUILDING CO TANK	2	552	1	181			786	1	
OIL AND FERTILIZER CO TANK	1	132	1	70			786	1	
OLD ROUND BRICK STACK	2	595	1	197			477	15	
OLD SQUARE BRICK STACK	2	593	1	196			477	15	
POST OFFICE TOWER	2	590	1	195			477	6	
POTTERS MILL CHIMNEY	2	591	1	195			477	5	
POWERHOUSE NORTH STACK	2	594	1	197			477	15	
POWERHOUSE SOUTH STACK	2	594	1	197			477	15	
ST ANDREWS PRESBYTERIAN CHURCH	2	591	1	195			477	5	
ST JAMES CHURCH	2	589	1	194			477	5	
ST LUKES A M E CHURCH	2	594	1	196			477	15	
ST MARYS R C CHURCH N TOWER	2	594	1	196			477	15	
ST PAULS LUTHERAN CHURCH SPIRE	1	134	1	71			477	15	
ST STEPHENS A M E CHURCH	1	134	1	71			477	15	
SEABOARD AIR LINE RAILWAY TANK	2	590	1	195			477	15	
SHARP SPIRE WITH VANE	1	134	1	71			477	15	
SHIPYARD POLE	2	591	1	195			477	15	
SHIPYARD STACK	2	591	1	195			477	5	
SILVER WATER TANK BALL ON TOP	1	132	1	70					
SILVER WATER TANK BLACK WRITING	1	132	1	70					
SMITHS HOUSE CUPOLA	2	595	1	197			477	15	
STACK	1	134	1	71					
SWIFT AND CO TANK	2	553	1	181			786	1	
TERMINAL WAREHOUSE CO TANK	2	553	1	181			786	1	
THE CHAMPION CO TANK	2	553	1	181			786	1	
THE TEXAS CO TANK	2	552	1	181			786	1	
TIDEWATER POWER CO STACK	1	134	1	71			786	1	
U S COURTHOUSE FLAGSTAFF	2	592	1	196			477	15	
U S COURTHOUSE SW CORNER	2	593	1	196			477	15	
U S CUSTON HOUSE FLAGSTAFF	2	591	1	195			477	15	
U S CUSTON HOUSE NW CORNER	2	591	1	195			477	15	
VIRGINIA CAROLINA CHEMICAL CO TANK	2	554	1	181			786	1	
WATER TANK	1	132	1	70					
WILLARD RED TANK	2	595	1	197			477	16	
WRECK 1918 NEW HANOVER CO	2	529	1	173			477		
WRIGHT	2	526	1	170			476	16	
WRIGHTSVILLE BEACH WATER TANK	1	132	1	70			477	1	
WRIGHTSVILLE BEACH WATER TANK FINIAL	2	537	1	176			477	1	
WRIGHTSVILLE NORTHWEST BASE	1	131	1	70			477	1	
WRIGHTSVILLE NORTHWEST BASE ECCENTRIC	1	131	1	69			477	1	
WRIGHTSVILLE SOUTHEAST BASE	2	526	1	171			477	1	
X USE	2	587	1	194			477	6	
Y USE	2	587	1	194			477	6	
YADKIN	1	161	1	12			738	13	13
YADKIN	1	161	1	12			786	2	
YARD 1 USE	2	591	1	195			477		
YARD 2 USE	2	588	1	194			477		
YELLOW HOUSE CHIMNEY ON WEST END	2	573	1	189			477	17	
YOPP	2	589	1	194			477	5	
NORTHAMPTON COUNTY NC									
CAMP 1933 NORTHAMPTON CO	1	117	1	64			192	217	

INDEX TO TRIANGULATION DATA

NORTH CAROLINA		DECEMBER 1957		NAME OF STATION		GEOGRAPHIC POSITION			PLANE COORDINATES			DESCRIPTION		
						VOL.	PAGE	ZONE	PAGE	ZONE	PAGE	BOOK	PAGE	PAGE
NORTHAMPTON COUNTY CONTINUED														
CAMP CARE	1933	NORTHAMPTON CO	1	117	1	64	738	4	34					
CARE	1		1	153	1	9	192	342						
CARE	1		1	153	1	9	738	13						
CAZ	1		1	153	1	9	192	341						
CAZ	1		1	153	1	9	738	13						
CED	1		1	153	1	9	192	341						
CED	1		1	153	1	9	738	13						
CEF	1		1	153	1	9	192	341						
CEF	1		1	153	1	9	738	13						
CEL	1		1	153	1	9	192	341						
CEL	1		1	153	1	9	738	13						
CEP	1		1	152	1	9	192	341						
CEP	1		1	152	1	9	738	13						
CER	1		1	152	1	9	192	340	341					
CER	1		1	152	1	9	738	13						
CET	1		1	152	1	9	192	340						
CET	1		1	152	1	9	738	13						
CIA	1		1	152	1	9	192	340						
CIA	1		1	152	1	9	738	13						
CIB	1		1	152	1	8	192	340						
CIB	1		1	152	1	8	738	13						
CIB	1		1	152	1	8	192	340						
CID	1918	NORTHAMPTON CO	1	152	1	8	192	340						
CID	1918	NORTHAMPTON CO	1	152	1	8	738	12						
CIG	1		1	152	1	8	192	339	340					
CIG	1		1	152	1	8	738	12						
CIK	1		1	152	1	8	192	339						
CIK	1		1	152	1	8	738	12	25					
CIL	1		1	152	1	8	192	339						
CIL	1		1	152	1	8	738	12	24					
CIM	1		1	151	1	8	192	339						
CIM	1		1	151	1	8	738	12	24					
CIN	1		1	151	1	8	192	339						
CIN	1		1	151	1	8	738	12	24					
CONCORD	1933	NORTHAMPTON CO	1	151	1	8	738	12	24					
CRA	1		1	117	1	65	192	217	218					
CRA	1		1	152	1	9	192	340						
CRA	1		1	152	1	9	738	13						
DANIEL	1		1	80	1	51	192	209						
DANIEL	1		1	80	1	51	738	23						
FUTRELL	1		1	119	1	65	192	220						
GARYSBURG	1		1	151	1	8	192	339						
GARYSBURG	1		1	151	1	8	738	12	24					
JORDON	1		1	77	1	50	192	204						
JORDON	1933	NORTHAMPTON CO	1	77	1	50	738	35						
MASON	1933	NORTHAMPTON CO	1	117	1	64	192	217						
PIT	1		1	117	1	65	192	218						
P T S NO 4 USGS	1918	NORTHAMPTON CO	1	157	1	10	192	346						
P T S NO 11 USGS	1933	NORTHAMPTON	1	117	1	64	192	217						
ROANOKE ECCENTRIC	2		2	656	1	247	192	229	230					
ROANOKE ECCENTRIC	2		2	656	1	247	738	4	25					
SEVERN	1		1	79	1	51	192	208						
SEVERN	1		1	79	1	51	738	23						
STANCELL	1		1	77	1	50	192	203	204					
SYKES	1		1	116	1	64	192	216	217					
VULTARE	1		1	77	1	50	192	202	203					
VULTARE	1		1	77	1	50	738	34						
WOODWARD	1		1	79	1	51	192	208						
ONSLOW COUNTY NC														
ANOS	1932	ONSLOW CO	1	122	1	66	476	10	28					
BAKER	1914	ONSLOW CO	2	495	1	161	476	8	27					
BANK	1914	ONSLOW CO	2	492	1	159	476	2	25					
BARLOW	1		1	618	1	206	476	12						
BAY	1914	ONSLOW CO	1	126	1	67	476	9	27					
BEACH	1914	ONSLOW CO	2	493	1	159	476	3	25					
BEACON USE	1931	ONSLOW CO	1	128	1	68	476	24						
BEACON NO 4	1932	ONSLOW CO	1	125	1	67								
BEACON NO 5	1933	ONSLOW CO	2	621	1	207	476	24						
BEACON NO 6	1932	ONSLOW CO	1	125	1	213	476	24						
BEACON NO 7	1933	ONSLOW CO	2	621	1	207	476	24						
BEACON NO 10	1932	ONSLOW CO	1	125	1	213	476	24						
BEACON NO 13	1933	ONSLOW CO	2	622	1	208								
BEACON NO 19	1		2	622	1	208								
BEAR	1914	ONSLOW CO	2	493	1	159	476	3	25					
BETHEA	1		1	41	1	37	476	11	20					
BETHEA	1		1	41	1	37	476	21	28					
BLUFF USE	1		1	124	1	67	192	304						
BLUFF USE	1		1	124	1	67	738	14	32					
BOG	1		1	127	1	68	476	24						
BOGUE SOUND BEACON NO 24	2		2	512	1	166	476	2	25					
BOGUE SOUND BEACON NO 25	2		2	512	1	166	476	2	25					
BOGUE SOUND BEACON NO 27	2		2	512	1	166	476	2	25					
BOGUE SOUND BEACON NO 27C	2		2	512	1	166	476	2	25					
BOGUE SOUND BEACON NO 29	2		2	512	1	166	476	2	25					

INDEX TO TRIANGULATION DATA

NORTH CAROLINA		DECEMBER 1957		GEOGRAPHIC POSITION			PLANE COORDINATES			DESCRIPTION			55
NAME OF STATION				VOL.	PAGE	ZONE	PAGE	ZONE	PAGE	BOOK	PAGE	PAGE	
ONSLOW COUNTY													CONTINUED
BOGUE SOUND BEACON NO 29B		2	513	1	166					476	25		
BRIER 1914 ONSLOW CO		2	496	1	161					476	9	27	
BRIER USE		1	128	1	68					192	306		
BRIER USE		1	128	1	68					738	15	32	
BROWN 1914 ONSLOW CO		2	494	1	160					476	5	26	
BROWN 1933 ONSLOW CO		2	501	1	160					476	5	26	
CAMP 1914 ONSLOW CO		2	493	1	160					476	4	26	
CAMP 1932 ONSLOW CO		1	127	1	68					738	14	5	
CAMP 2		2	500	1	162					476	4		
CAMP 2		2	500	1	162					476	26		
CAMP DAVIS TANK NO 1		2	584	1	192					476	17	29	
CAMP DAVIS TANK NO 2		2	584	1	192					476	17	29	
CAMP DAVIS TANK NO 3		2	584	1	192					476	17	29	
CAMP DAVIS TANK NO 4		2	584	1	192					476	17	29	
CAMP LEJEUNE AREA 1 WATER TANK		2	638	1	233					476	29		
CAMP LEJEUNE AREA 5 WATER TANK		2	638	1	233					476	29		
CAMP LEJEUNE NORTH RADIO TOWER		2	639	1	233					476	29		
CAMP LEJEUNE PARACHUTE TOWER NO 2		2	638	1	232					476	29		
CAMP LEJEUNE PARACHUTE TOWER NO 3		2	638	1	232					476	29		
CAMP LEJEUNE RED AND WHITE WATER TANK		2	639	1	233					476	29		
CAMP LEJEUNE RIFLE RANGE NO 2 W TANK		2	639	1	233					476	29		
CAMP LEJEUNE SOUTHEAST RADIO TOWER		2	639	1	233					476	29		
CAMP LEJEUNE SOUTHWEST RADIO TOWER		2	638	1	232					476	29		
CAMP LEJEUNE U S N HOSPITAL CUPOLA		2	494	1	160					476	6	26	
CEDAR 1914 ONSLOW CO		1	122	1	66					476	10	28	
CEDAR POINT		1	122	1	66					738	30		
CHADWICK BAY LIGHT NO 2		2	639	1	233					476	24		
CHIEF		1	122	1	66					738	15	32	
COURT		1	122	1	66					192	303		
COURT		1	123	1	66					192	304		
COVIL		1	123	1	66					738	15	32	
COVIL		1	123	1	66					738	15	32	
CRAB		2	608	1	202					476	11	20	
CRAB		2	608	1	202					476	28		
CRAG		1	126	1	67					476	9	27	
CROSS 1914 ONSLOW CO		2	496	1	161					476	8	9	
CROSS 1914 ONSLOW CO		2	496	1	161					476	27		
DUCK CREEK 1932 ONSLOW CO		1	11	1	26					476	9	27	
DUDLEY 1914 ONSLOW CO		2	492	1	159					476	1	25	
EAGLE		2	494	1	160					476	5	26	
FERRY USE		1	126	1	68					192	307		
FERRY USE		1	126	1	68					738	33		
FERRY USE ECCENTRIC		1	122	1	66					192	303	304	
FERRY USE ECCENTRIC		1	122	1	66					738	15	32	
FIRE TOWER NO 2		2	639	1	233					476	30		
FISH 1932 ONSLOW CO		1	125	1	213					476	10	19	
FISH 1932 ONSLOW CO		1	125	1	213					476	28	30	
FISH USE		1	123	1	67					192	304		
FISH USE		1	123	1	67					738	16	32	
FOUNTAIN 1933 ONSLOW DUPLIN COS		1	21	1	29					192	192	26	
FREE		1	55	1	43					476	304		
FRENCH USE		1	124	1	67					738	32		
FRENCH USE		1	124	1	67					476	18	25	
FULLARD		2	617	1	206					476	10	28	
GAP 1914 ONSLOW CO		2	497	1	161					476	9		
GILLETTE USE		1	123	1	67					192	304		
GILLETTE USE		1	123	1	67					738	16	32	
GILLETTS CREEK		2	501	1	162					476	8	27	
GIN USE		1	127	1	68					192	307		
GIN USE		1	127	1	68					738	14	32	
GIN USE ECCENTRIC		1	123	1	66					192	304		
GIN USE ECCENTRIC		1	123	1	66					738	14	32	
GOOSE BAY		2	617	1	206					476	11	28	
GRANT 1914 ONSLOW CO		2	617	1	206					476	10	28	
GRANT 1932 ONSLOW CO		1	11	1	26					476	11	20	
GREY USE		1	123	1	67					738	16	32	
GREY USE		1	123	1	67					192	304		
GREY USE		2	617	1	206					476	11	28	
GROVE 1914 ONSLOW CO		1	124	1	67					192	305		
HADNOT USE		1	124	1	67					738	14	32	
HADNOT USE		1	122	1	66					192	303		
HALL USE		1	122	1	66					738	15	32	
HALL USE		2	500	1	162					476	3	25	
HAMMOCK		1	21	1	29					192	192	193	
HARRIS		1	122	1	66					192	303		
HATCH USE		1	122	1	66					738	15	32	
HATCH USE		2	493	1	159					476	2	25	
HAWK 1914 ONSLOW CO		2	514	1	170					476	24		
HELIO		2	496	1	161					476	9	27	
HENDERSON 1914 ONSLOW CO		2	496	1	161					476	9	27	
HIGH 1914 ONSLOW CO		1	124	1	67					192	305		
HIGH 1932 ONSLOW CO		1	124	1	67					738	14	32	
HIGH 1932 ONSLOW CO		1	124	1	67					476	24		
HILT		1	603	1	200					476	24		
HINES 1932 ONSLOW CO		1	123	1	66					192	304		

INDEX TO TRIANGULATION DATA

NORTH CAROLINA				DECEMBER 1957			DESCRIPTION			56		
NAME OF STATION				GEOGRAPHIC POSITION		PLANE COORDINATES						
				VOL.	PAGE	ZONE	PAGE	ZONE	PAGE	BOOK	PAGE	PAGE
ON SLOW COUNTY CONTINUED												
HINES	1932	ON SLOW CO		1	123	1	66			738	15	16
HINES	1932	ON SLOW CO		1	123	1	66			738	32	
HOBBS				2	617	1	206			476	11	28
HORSEHEAD				2	501	1	162			476	7	26
HUBERT				1	37	1	35			192	157	
HUBERT				1	37	1	35			738	31	
HUFFMAN				1	21	1	28			192	191	
HUGGINS ISLAND		USE		2	511	1	166			476	2	25
HURST				2	494	1	160			476	6	26
INLET	1914	ON SLOW CO		2	493	1	160			476	4	26
INLET				2	500	1	162			476	4	26
JARMAN				1	127	1	68			192	306	
JARMAN				1	127	1	68			738	16	32
KING	1914	ON SLOW CO		2	618	1	206			476	11	28
LIGHT NO 2				1	125	1	67					
LIGHT NO 8				1	126	1	67					
LIGHTER				2	519	1	170			476	10	28
LITTLE RAGGED		USE		1	124	1	67			192	305	
LITTLE RAGGED		USE		1	124	1	67			738	14	32
LOG	1914	ON SLOW CO		2	607	1	202			476	10	19
LOG	1914	ON SLOW CO		2	607	1	202			476	28	
LOG				2	608	1	202			476	19	29
LOW	1914	ON SLOW CO		2	495	1	160			476	7	
MARSH		USE		1	128	1	68			192	307	
MARSH		USE		1	128	1	68			738	15	33
MEADOW				2	493	1	160			476	4	26
MILL	1914	ON SLOW CO		2	493	1	160			476	4	26
MILL		USE		1	128	1	68			192	307	
MILL		USE		1	128	1	68			738	15	33
MONTFORD		USE		1	127	1	68			192	306	
MONTFORD		USE		1	127	1	68			738	14	15
MONTFORD		USE		1	127	1	68			738	33	
MONUMENT	371	USMC		2	638	1	232			476	30	
MOSS		USE		1	128	1	68			192	306	
MOSS		USE		1	128	1	68			738	16	33
MUSH				2	617	1	206			476	11	20
MUSH				2	617	1	206			476	28	
NEW RIVER	DAY MARK	NO 9		2	639	1	233					
NEW RIVER	DAY MARK	NO 13		2	639	1	233					
NEW RIVER	DAY MARK	NO 15		2	639	1	233					
NEW RIVER	DAY MARK	NO 31		2	638	1	232					
NEW RIVER	DAY MARK	NO 35		2	639	1	233					
NEW RIVER	DAY MARK	NO 41		2	638	1	232					
NEW RIVER	DAY MARK	NO 43		2	638	1	232					
NEW RIVER	LIGHT	NO 11		2	639	1	233					
NEW RIVER	LIGHT	NO 17		2	639	1	233					
NEW RIVER	LIGHT	NO 19		2	639	1	233			477	19	
NEW RIVER	LIGHT	NO 21		2	639	1	233					
NEW RIVER	LIGHT	NO 23		2	638	1	232					
NEW RIVER	LIGHT	NO 25		2	638	1	232					
NEW RIVER	LIGHT	NO 27		2	638	1	232					
NEW RIVER	LIGHT	NO 29		2	638	1	232					
NEW RIVER	LIGHT	NO 32		2	638	1	232					
NEW RIVER	LIGHT	NO 33		2	638	1	232					
NEW RIVER	LIGHT	NO 34		2	639	1	233					
NEW RIVER	LIGHT	NO 36		2	638	1	232					
NEW RIVER	LIGHT	NO 38		2	638	1	232					
NEW RIVER	LIGHT	NO 39		2	638	1	232					
NEW RIVER	LIGHT	NO 44		2	638	1	232					
NEW RIVER	LIGHT	NO 70		2	639	1	233					
NO 3	3 4	USE		2	621	1	207			476	30	
NO 3	3 151	USE		2	621	1	207			476	17	29
NO 3	3 182	USE		2	621	1	207			476	17	29
NO 3	3 216	PLUS USE		2	621	1	207			476	17	29
NO 3	3 247	PLUS USE		2	621	1	207			476	17	29
NO 3	4 5	USE		2	622	1	208			476	17	29
NO 3	4 8	PLUS USE		2	622	1	207			476	17	29
NO 3	4 140	PLUS USE		2	622	1	207			476	17	29
NO 3	5 25	USE		2	622	1	208			476	17	
NO 22	PLUS	USE		2	511	1	166			476	2	25
NO 27	PLUS	USE		2	511	1	166			476	24	
NO 29	PLUS	USE		2	513	1	166			476	10	28
NORTH BASE		USE		1	125	1	67			192	306	
NORTHEAST				1	126	1	68					
NORTHEAST				1	128	1	68			738	16	33
NORTHEAST BASE				2	501	1	162			476	16	27
ON SLOW				1	41	1	37			192	163	
PARADISE		USE		1	25	1	31			192	202	
PARADISE		USE		1	25	1	31			738	15	31
PARADISE ECCENTRIC				1	25	1	31			192	201	
PARADISE ECCENTRIC				1	25	1	31			738	31	
PASS				2	495	1	160			476	8	27
PASSET				1	126	1	67			192	305	
PASSET				1	126	1	67			738	32	

INDEX TO TRIANGULATION DATA

NORTH CAROLINA		DECEMBER 1957		GEOGRAPHIC POSITION			PLANE COORDINATES			DESCRIPTION		
NAME OF STATION				VOL.	PAGE	ZONE	PAGE	ZONE	PAGE	BOOK	PAGE	PAGE
ON SLOW COUNTY CONTINUED												
PAVILION				2	497	1	161			476	10	28
PEAK				2	603	1	200			476	24	
PIG	1914	ON SLOW CO		2	494	1	160			476	5	26
PINE	1914	ON SLOW CO		2	495	1	160			476	7	26
PINE	1914	CNSLOW CO		2	495	1	160			476	27	
PINE	USE			1	128	1	68			192	307	
PINE	USE			1	128	1	68			738	15	33
PIVER	1914	ON SLOW CO		2	494	1	160			476	6	26
POINT	1914	ON SLOW CO		2	494	1	160			476	6	26
POINT	1927	ON SLOW CO		2	603	1	200			476	24	
POVERTY				1	122	1	66			192	303	
POVERTY				1	122	1	66			738	15	32
QUEEN	1914	ON SLOW CO		1	55	1	43			476	2	25
RAGGED	USE			1	127	1	68			192	306	
RAGGED	USE			1	127	1	68			738	15	33
RANGE	THREE			2	608	1	202			476	19	29
RANGE	TWO			2	607	1	202			476	20	29
RHODES	USE			1	124	1	67			192	304	
RHODES	USE			1	124	1	67			738	16	32
RICHLANDS				1	21	1	29			192	192	
RICK				2	603	1	200			476	24	
ROGER				2	618	1	206			476	11	29
ROPER	1933	ON SLOW CO		1	21	1	29			192	193	
ROPER	1933	ON SLOW CO		1	21	1	29			738	31	
ROUGH				2	618	1	206			476	11	29
RUSS				2	492	1	159			476	2	
RUSS	2			2	500	1	162			476	2	25
RUSSELL	1932	ON SLOW CO		1	37	1	35			192	157	
RUSSELL	1932	ON SLOW CO		1	37	1	35			738	31	
SAMWORTH				1	122	1	66			192	303	
SAMWORTH				1	122	1	66			738	32	
SANDY	1914	ON SLOW CO		2	495	1	160			476	7	27
SAUNDERS	1914	ON SLOW CO		2	493	1	159			476	3	25
SEA				1	126	1	67			476	9	27
SEL				2	500	1	162			476	1	25
SHELL	1914	ON SLOW CO		2	497	1	161			476	9	27
SMITHS HOUSE	CUPOLA			2	519	1	170			476	10	28
SNAG				2	496	1	161			476	8	27
SOUTH BASE	USE			1	125	1	67			476	10	28
SOUTHWEST	USE			1	127	1	68			192	306	
SOUTHWEST	USE			1	127	1	68			738	33	
SOUTHWEST BASE				2	501	1	163			476	9	27
SPRING	USE			1	124	1	67			192	304	
SPRING	USE			1	124	1	67			738	15	
SPRING	2	USE		2	638	1	232			476	30	
SPY				2	618	1	206			476	12	29
SQUALL				2	618	1	206			476	11	
STILL	1914	ON SLOW CO		2	494	1	160			476	5	26
STONE	USE			1	126	1	68			192	307	
STONE	USE			1	126	1	68			738	33	
STONE	USE	ECCENTRIC		1	123	1	66			192	304	
STONE	USE	ECCENTRIC		1	123	1	66			738	15	32
STUMP	1914	ON SLOW CO		2	618	1	206			476	11	29
STUMP	1933	ON SLOW CO		1	127	1	68			192	306	
STUMP	1933	ON SLOW CO		1	127	1	68			738	33	40
SWAMP	1914	ON SLOW CO		2	495	1	161			476	8	27
SWAMP	1933	ON SLOW CO		1	127	1	68			192	306	
SWAMP	1933	ON SLOW CO		1	127	1	68			738	16	33
SWAMP	1933	ON SLOW CO		1	127	1	68			476	10	19
SWAN POINT	USE	NEW RIVER		1	55	1	43			476	28	
SWAN POINT	USE	NEW RIVER		1	55	1	43			476	17	29
SWAN POINT	2			1	519	1	170			476	10	19
SWAN POINT	ECCENTRIC			1	55	1	43			476	28	
SWAN POINT	ECCENTRIC			1	55	1	43			476	28	
SWANSBORO	BAPTIST CHURCH SPIRE			2	511	1	166			476	24	
SWANSBORO	METHODIST CHURCH SPIRE			2	511	1	166			476	24	
TIE				2	497	1	161			476	9	27
TILE				2	497	1	161			476	10	28
TOWER EIGHT				2	606	1	201			476	20	29
TOWER NINE				2	606	1	201			476	19	29
TOWER NINE				2	606	1	201			476	30	29
TOWER SEVEN				2	606	1	201			476	20	29
TOWER SIX				2	606	1	201			476	21	29
TOWN POINT	USE			1	25	1	31			192	202	
TOWN POINT	USE			1	25	1	31			738	15	31
TOWN POINT	ECCENTRIC			1	25	1	31			192	201	
TOWN POINT	ECCENTRIC			1	25	1	31			738	15	31
TRUESDALE				1	11	1	25			192	155	
TRUESDALE				1	11	1	25			738	15	31
TRUESDALE				1	11	1	25			192	155	
VERONA				1	11	1	25			738	15	31
VERONA				1	11	1	25			738	38	
VIEW	1932	ON SLOW CO		1	125	1	213			192	171	
VIEW	1932	ON SLOW CO		1	125	1	213			476	10	19
VIEW	1932	ON SLOW CO		1	125	1	213			476	28	

INDEX TO TRIANGULATION DATA

NORTH CAROLINA DECEMBER 1957 NAME OF STATION	GEOGRAPHIC POSITION		PLANE COORDINATES			DESCRIPTION			58
	VOL.	PAGE	ZONE	PAGE	ZONE	PAGE	BOOK	PAGE	
ONSLOW COUNTY CONTINUED									
VIM	1	126	1	67			476	9	27
WALTON	1	25	1	30			192	201	202
WALTON	1	25	1	30			738	3	16
WALTON	1	25	1	30			738	31	
WATER 1932 ONSLOW CO	1	123	1	66			738	15	
WATER TANK NEAR STATION QUEEN	2	512	1	166			476	25	
WEEK	2	495	1	160			476	7	27
WILLIAMS 1914 ONSLOW CO	1	126	1	67			476	9	28
WILSON USE	1	128	1	68			192	307	
WILSON USE	1	128	1	68			738	15	33
WINDY	2	495	1	160			476	6	7
WINDY	2	495	1	160			476	26	
WRECK 1914 ONSLOW CO	2	617	1	206			476	10	28
WRIGHTS ISLAND USE	2	519	1	170			476	10	28
ORANGE COUNTY NC									
BLACKWOOD	2	749	1	292			1165	9	
CHAPEL 1954 ORANGE CO	2	749	1	292			1165	10	
CHAPEL HILL	1	17	1	27			192	182	
CHAPEL HILL	1	17	1	27			1165	10	
CHAPEL HILL UNIVERSITY OF N C WATER T	2	755	1	295			1165	10	
CHAPEL HILL UNIVERSITY OF NC STACK	2	755	1	295			1165	10	
DODSON	2	746	1	290			1165	9	
GARRARD	1	23	1	29			192	195	196
HILLSBORO	1	16	1	27			192	181	182
HILLSBORO AT T MICRO WAVE RELAY MAST	2	755	1	295			1165	10	
HILLSBORO LOOKOUT TOWER	2	755	1	295			1165	9	
LAWS	1	16	1	26			192	180	181
SUNDIAL	1	23	1	29			738	38	
UNIVERSITY	1	23	1	29			192	196	
UNIVERSITY	1	23	1	29			738	38	
UNIVERSITY OF NORTH CAROLINA BELL TWR	1	27	1	32					
WHITE CROSS	2	749	1	292			1165	9	
PAMLICO COUNTY NC									
A	2	425	1	134			472	6	39
A USE 1913 PAMLICO CO	2	426	1	134			472	37	
ALICE	2	377	1	116			472	2	40
ALLIGATOR 2	2	479	1	154			472	17	
ARAPAHOE	1	36	1	35			472	17	30
ASON	2	392	1	121			472	6	36
B USE 1913 PAMLICO CO	2	425	1	134			472	6	36
BAIRD	2	267	1	76			472	18	25
BAIRD	2	267	1	76			472	31	
BALLS ISLAND 2	2	389	1	120			472	2	38
BARK	2	425	1	134			472	5	39
BAY 1913 PAMLICO CO	2	363	1	111			472	1	38
BAY POINT BEACON 1933 PAMLICO CO	2	447	1	142					
BAY POINT BEACON 1935 PAMLICO CO	2	393	1	122			472	37	
BAY POINT LIGHT 1913 PAMLICO CO	2	481	1	155					
BAY POINT LIGHT 1920 PAMLICO CO	2	480	1	154			472	37	
BAY RIVER BEACON NO 41	2	379	1	117			472	2	38
BAY RIVER BEACON 42	2	447	1	142			472	37	
BAYBORO	2	376	1	116			472	7	23
BAYBORO	2	376	1	116			472	26	
BEACON NO 35	2	373	1	114			473	3	26
BEACON NO 37 1935 PAMLICO CO	2	373	1	115			473	3	26
BEACON NO 393 1935 PAMLICO CO	2	373	1	115			473	3	27
BEACON NO 39A	2	393	1	122			472	37	40
BEACON NO 39A	2	393	1	122			472	41	
BEACON NO 40A	2	393	1	122			472	37	40
BEACON NO 40A	2	393	1	122			472	41	
BEARD CREEK BEACON LIGHT	2	450	1	143			472	17	40
BEARDS CREEK 2	2	479	1	154			472	18	31
BEC	2	380	1	117			473	2	25
BELL POINT BEACON	2	394	1	122			472	36	
BELLS POINT 2 1913 PAMLICO CO	2	393	1	121			472	4	36
BIGHT 1913 PAMLICO CO	2	425	1	134			472	5	39
BONNER 1935 PAMLICO CO	2	389	1	120			472	2	38
BOS	2	392	1	121			472	6	7
BOS	2	392	1	121			472	36	37
BRANCH	2	389	1	120			472	2	38
BRANT 5	2	363	1	111			472	1	38
BRANT ISLAND 4	2	477	1	153			472	24	
BRICK 1935 PAMLICO CO	2	391	1	121			472	5	39
BROAD 1932 PAMLICO CO	2	439	1	139			472	20	32
BROAD CREEK BEACON	2	479	1	154			472	24	35
BROAD CREEK LIGHT	2	481	1	155					
BRYANT 5	2	363	1	111			472	1	38
C 1913 PAMLICO CO	2	425	1	134			472	6	39
C USE 1913 PAMLICO CO	2	426	1	134			472	37	
C USE 1935 PAMLICO CO	2	373	1	115			473	3	26

ONSLOW COUNTY (CLNC AREA)

No. 476

UNITED STATES COAST AND GEODETIC SURVEY Descriptions of Triangulation Stations

Bogue Inlet to Wrightsville Inlet, North Carolina.

BOGUE (Carteret County, N.C., J.S.H., 1908; 1911)--Station is at the W end of Bogue Sound, on the main marsh at the E side of Bank Channel, the broad body of water N and E of Bogue Inlet, about 100 yards S of the extreme N end of this marsh, on which there are several clumps of bushes and large water oaks.

The surface mark is a brass nail in a drain tile, placed flange up, filled with cement and surrounded by concrete. The letters "U.S." are scratched in the concrete.

The underground mark is a 4-inch drain tile buried 2 feet below the surface of the ground.

Three reference posts were placed N, E, and W of the station. Distances and azimuths from the station are as follows: to the W post with 4 nails, 2.27 meters (7.45 feet), 77° 11'; to the N post with 6 nails, 2.35 meters (7.05 feet), 172° 23'; to the E post with six nails, 1.95 meters (6.07 feet), 269° 04'; to a blazed live oak tree, 9.7 meters (31.8 feet), 19° 42'.

BOGUE (Carteret County, N.C., J.S.H., 1908; K.T.A., 1927)--Station was recovered and found in good condition. The three reference posts were no longer standing. The station is about 20 feet from high-water line.

BOGUE (Carteret County, N.C., J.S.H., 1908; H.O., 1933)--The station is about 1 1/2 miles NE of Bogue Inlet on the main marsh at the E side of Bank Channel.

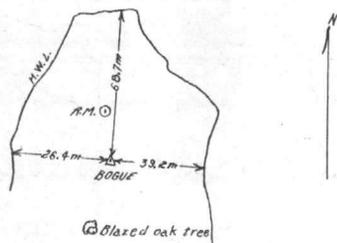
The station was found and used in the 1933 scheme. It was remarked with a standard brass disk, and stamped "BOGUE 1908-1933", set in concrete in an 8-inch tile, superimposed over the old mark.

The underground mark is a 4-inch tile 2 feet below the surface of the ground.

The live oak tree mentioned in original description is dead. Triangular blaze on the tree was re-cut on the side of the tree towards station.

One reference mark was established, a standard brass disk set in an 8-inch tile filled with concrete, projecting a few inches above ground surface.

OBJECT	DISTANCE		DIRECTION ° 00' 00" 0
	meters	feet	
BELL	12.430	40.775	07 15 45.0
R.M.	9.790	32.120	199 33 10.0



BELL (Carteret County, N.C., J.S.H., 1908; 1915)--Station is at the W end of Bogue Sound on the mainland, N of Bogue Inlet and E of Bank Channel, in a field belonging to K. Bell, about 180 yards E of the mouth of a creek which makes along the S side of the field, about mid-way between the edge of the water and a graveyard which is in the field.

The surface mark is a 4-inch tile filled with and set in concrete with a copper nail in the top, and the letters "U.S." scratched on the concrete.

The underground mark is a 4-inch drain tile buried 2 feet below the surface.

Three light-wood posts were set near the water in line toward the station; another post was placed to the N of the station and SE of the graveyard, and a 6-inch tree in the graveyard was marked with blaze and nails.

All the posts, the station, and the blazed tree are nearly in line. The three posts toward the water are, respectively, 20.5 meters (67.3 feet), 22.0 meters (72.2 feet), and 23.3 meters (76.4 feet) from the station in azimuth 2° 12'.

The other post and the tree in the graveyard are, respectively, 22.4 meters (73.5 feet), and 24.3 meters (79.7 feet) from the station in azimuth 182° 47'.

BELL (Carteret County, N.C., J.S.H., 1908; N.C. Geod. S., 1927)--Station and reference points in good condition. Description is adequate.

BELL (Carteret County, N.C., J.S.H., 1908; H.O., 1933)--The station is on the mainland N of Bogue Inlet, Bank Channel, and the Inside Route Canal and is W of Beacon 20.

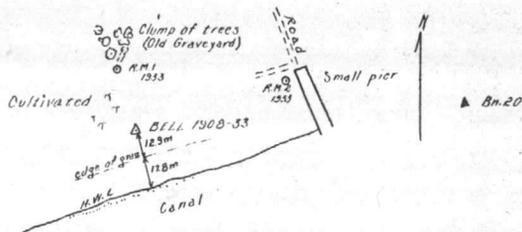
Surface mark was found as described and was re-marked with a standard disk set in concrete, according to note 1a. It is stamped "BELL 1914-1933." The light-wood posts were gone.

Two reference marks were established. They are standard brass disks set in concrete in the top of tile, as described in note 13a.

Reference mark No. 1 projects slightly above the ground surface and is approximately 2 1/2 meters S of a clump of hackberry trees. (Graveyard mentioned in original description.)

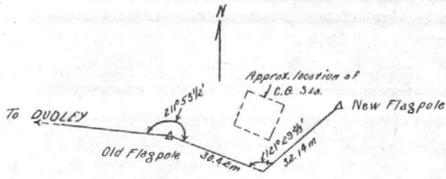
Reference mark No. 2 projects slightly above the ground surface, and is approximately 6 meters N of high-water line.

OBJECT	DISTANCE		DIRECTION ° 00' 00" 0
	meters	feet	
MUD 2	21.533	70.660	252 48 10.0
R.M. No. 1	55.275	181.350	04 13 17.5



FLAGPOLE, BOGUE INLET (Carteret County, N.C., 1911; K.T.A., 1927)--Flagpole has been torn down and a new one erected. See description of stations for description of new flagpole.

FLAGPOLE, BOGUE INLET (Carteret County, N.C., K.T.A., 1927)--Station is the center of the flagpole on the steel flag tower at Bogue Inlet, about 20 meters E of the Coast Guard Station. The flagpole as shown in previous triangulation has been torn down.



SEL (Onslow County, N.C., R.P.S., 1911)--Station is at the mouth of White Oak River, in a field at the SE corner of Huggins' Island, NW of a large marsh about 150 yards from high-water mark to the E, and about 140 yards from high-water mark to the S.

The surface mark is a standard bronze disk set in concrete in the top of a tile, as described in note 6b.

The underground mark is set according to note 10d.

The reference mark is a tile filled with, and set in cement, projecting about 6 inches above the surface; it is in the bushes E of station, about 20 yards from high-water mark, 14.3 meters (46.9 feet) from the station in azimuth 252° 56'.

The most easterly of a row of live oak trees about 135 yards S of reference mark is blazed on the side toward the station. There are blazes, with 5 nails in each blaze, on three small myrtle trees near the reference mark; one is about 12 yards N of the reference mark, a second is close by the reference mark on the station side toward the station, and the third is about 20 yards toward the S.

SEL (Onslow County, N.C., R.P.S., 1911; H.O., 1933)--The station is destroyed. The original brass disk and pieces of concrete and tile were found about 2 1/2 feet below the surface. No underground mark could be found.

DUDLEY (Onslow County, N.C., R.P.S., 1911)--Station is about N of Bogue Inlet, on the S side of Dudley Island, about 50 yards E of the W end of a small sand ridge about mid-way between a creek, that runs along a line of scattered live oak trees, and the sound. It is about 50 yards from high-water mark on the S side.

The surface mark is a standard bronze disk set in concrete in the top of a tile, as described in notes 6b.

The underground mark is set according to note 10d.

The reference mark is a tile, filled with, and set in cement, projecting about 6 inches above the surface of the ground. It is in range with Bogue Inlet L.S.S. boathouse.

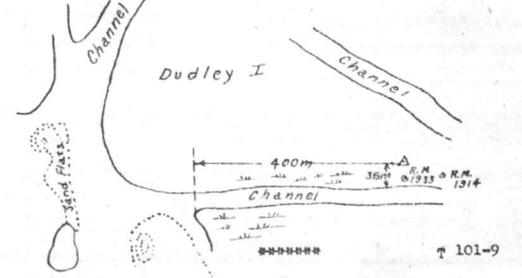
DUDLEY (Onslow County, N.C., R.P.S., 1911; K.T.A., 1927)--Station was found in good condition. The reference mark is on high-water line. The station mark is about 50 feet from high water.

DUDLEY (Onslow County, N.C., R.P.S., 1911; H.O., 1933)--Station is about one mile N of Bogue Inlet on the S side of Dudley Island. It was found in good condition and was used in 1933. The reference mark was broken and will soon be destroyed. One new reference mark was established.

Station mark is a standard bronze disk set in concrete in the top of a tile, as described in note 6b.

Reference mark No. 1, (1933) is a standard brass disk stamped "DUDLEY 1-1927" and set in concrete in the top of a 10-inch vitrified clay tile filled with concrete, projecting 8 inches above the ground surface. It is about 6 meters N of high-water line, in the sand bushes.

OBJECT	DISTANCE		DIRECTION ° 00' 00" 0
	meters	feet	
QUEEN	32.616	107.00	187 55 17.5



RUSS (Onslow County, N.C., R.P.S., 1914)--Station is on Huggins Island, at the mouth of White Oak River, in Dan Russell's field, about 200 yards W of Russell's house, and about the same distance S of another house on the water front, about 100 yards back from high-water mark on the S side of the island.

The surface mark is a standard bronze disk set in concrete in the top of a tile, as described in notes 6b. The underground mark is set according to note 10d. The reference marks are tiles, filled with, and set in cement, and projecting about 6 inches above the surface. Reference mark No.1 is a 6-inch tile and is 37 meters, (121 feet) W of the station in range with the highest chimney on Russell's house. Reference mark No.2 is a 4-inch tile, 66 meters, (217 feet) S of the station in range with a lone live oak tree.

RUSS (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--Station is near the southern edge of a cultivated field on the western end of Huggins Island. There is higher ground NW of the station mark. Old reference marks and live oak tree mentioned in original description are gone. Russell's house is still standing and is about 200 yards E of the station.

The station was re-marked by placing a surface mark directly over the position in which the underground mark was recovered. The new station was called "RUSS 2, 1933", and the old station considered destroyed.

Subsurface mark was recovered and found apparently intact about 4 1/2 feet below the surface of the ground. Re-observations at this station showed an appreciable difference from the old observed angles.

Reference mark No.1 is a standard brass disk stamped "1, RUSS, 1933", and set in an 8-inch tile filled with cement, projecting 6 inches above ground surface, and in line with "DUDLEY" and just inside the fence line.

Reference mark No.2 is a standard brass disk stamped "2, RUSS, 1933", and set in an 8-inch tile filled with cement, projecting 6 inches above the ground surface, and in line with "QUEEN", and at the edge of the cultivated field and just inside the line of bushes.

OBJECT	DISTANCE		DIRECTION
QUEEN	meters	feet	
R.M.No.1	61.298	201.108	0° 00' 00" 0
R.M.No.2	25.268	82.890	285 25 05.0
Chimney, (Russell's house)			359 58 15.0
			181 26 00.0



QUEEN (Onslow County, N.C., R.P.S., 1914; 1933)--Station is about 2 1/2 miles inland, MNW of entrance to Bogue Inlet, on property owned by Dr. Sharp, and about 100 feet SE of SE corner of Dr. Sharp's house. Original surface mark was replaced in 1932 with a standard disk set in concrete, as described in note 1a, and stamped "QUEEN 1914-1932." Underground mark is set according to note 10d, was also found, but was not replaced at this time. Original reference mark is tile filled with and set in concrete, projecting about 6 inches, and 9.935 meters (32.59 feet) from station in azimuth 299° 19'. Three standard reference disks set in concrete, as described in note 11a, were also placed in 1932. No.2 is 93.122 meters (305.52 feet) from station in azimuth 131° 33'. No.3 is approximately one-half mile from station in azimuth 153° 41' 37". No.4 is 63.440 meters (207.15 feet) from station in azimuth 231° 27'.

BANK (Onslow County, N.C., R.P.S., 1914)--Station is on the N side of an old dredge channel that is now closed up, about 75 yards N of where the dredge channel from Bogue Inlet to Bear Inlet began, or about 50 yards E of the W end of the dredge dump nearest the Bogue Inlet entrance to the channel.

The surface mark is a standard bronze disk set in concrete in the top of a tile as described in note 6b. The underground mark is set according to note 10d. There are no reference marks.

BANK (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927)--Station recovered as described. Original description is complete.

BANK (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--Station is on a narrow sand ridge in the marsh about one mile N, and W of Bogue Inlet. It is about 3 meters W of the most westerly of a clump of bushes on the ridge. These bushes are the only ones on the marsh.

The station was found in good condition and was used in the 1933 scheme.

One reference mark was established. It is marked by a standard disk set in concrete in the top of an 8-inch tile in accordance with note 13a. It is in the center of the ridge W of the largest clump of bushes.

OBJECT	DISTANCE		DIRECTION
QUEEN	meters	feet	
R.M.No.1	18.822	61.750	0° 00' 00" 0
			71 17 42.5



BEACON "BOGUE SOUND 25" (Onslow County, N.C., H.O., 1933)--This station was determined with accuracy represented by 3 D/R, and is a lighted beacon described in Light List, Atlantic Coast, United States, 1932, as follows: "BOGUE SOUND, No.1853, BOGUE SOUND 25, Fl.W., 2 sec., in 2 feet, at bend in channel, light is 16 feet above high water, black slatted pile structure."

BEACON "BOGUE SOUND 27" (Onslow County, N.C., H.O., 1933)--This station was determined with accuracy represented by 3 D/R and is a lighted beacon described in Light List, Atlantic Coast, United States, 1932, as follows: "Bogue Sound, No.1854, Bogue Sound 27, Fl.W., 2 sec., in 2 feet, at bend in channel, 16 feet above high water, black slatted daymark on pile."

BEACON "BOGUE SOUND 29" (Onslow County, N.C., H.O., 1933)--This station was determined with accuracy represented by 3 D/R and is a lighted beacon described in Light List, Atlantic Coast, United States, 1932, as follows: "Bogue Sound, No.1855, Bogue Sound 29, Fl.W., 2 sec., in 2 feet, at bend in channel, light 16 feet above high water, black slatted daymark on pile."

BEACON "SWANSBORO 24" (Onslow County, N.C., H.O., 1933)--This station was determined with accuracy represented by 3 D/R and is a lighted beacon described in Light List, Atlantic Coast, United States, 1932, as follows: "Bogue Sound, No.1852, Swansboro 24, Fl.R., 3 seconds, in 3 feet, on E side of N end of out, light 16 feet above high water, red slatted pile structure."

U.S.E. (22+) (Onslow County, N.C., H.O., 1933)--This station is a standard U.S.E. disk stamped "55", set in a 6-inch iron pipe filled with concrete, projecting 15 inches above surface of ground, on a small marsh island, 1/2 mile SE of Swansboro, 300 yards S of E end of bridge, 10 yards from edge of the channel, 20 yards from W side of the island, midway between Beacon No.22 and Beacon 24. Mark is on the N side of channel. Connection to triangulation scheme made by cuts from main scheme stations with accuracy represented by 3 D/R.

U.S.E. (HUGGINS ISLAND) (Onslow County, N.C., H.O., 1933)--This station is a standard U.S.E. brass disk cemented in the top of a 6-inch square tile set in an irregular mass of concrete projecting about 4 inches above the ground. Station is about 8 meters inside the high-water line; about 125 yards E of a cottage known as "Camp Charmat." Station is about 5 1/2 meters N of the U.S. Coast Guard telephone line of poles going by this cottage; and is about 12 meters ENE of telephone pole No.14-RS 1. Connection to triangulation scheme made by cuts from main scheme stations with accuracy represented by 3 D/R.

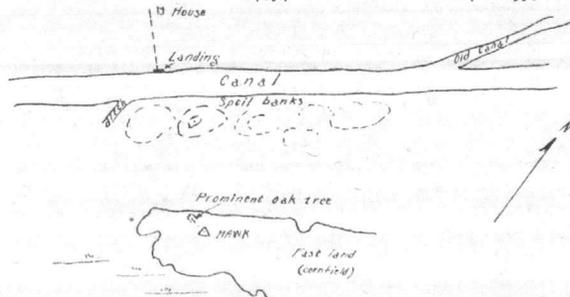
HAWK (Onslow County, N.C., R.P.S., 1914)--This station is about 2 1/2 miles NE from Bear Inlet on Hawkins Island about 150 yards from high-water mark, to the SE and 30 yards from the NW shore of the island about 75 yards S of a lone live oak tree (blazed on its S side), on the N end of the island or about 15 yards from the E side of the barn. Surface mark is a standard bronze disk set in concrete in the top of a tile, as described in note 6b. Underground mark is set according to note 10d. There are no reference marks.

HAWK (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927)--This station recovered in good condition. Dredged canal passes about 200 meters NW of station. Small barn has been removed. OBJECT FLAGPOLE, BOGUE INLET meters 8.73 28.63 DIRECTION 0° 00' 00" 0 N. Car. small barn 8.73 28.63 119 36 Lone live oak tree 75 229 45 Reed's House Chimney 250. 224 28 Reed's house is very prominent, can be seen from Bear Inlet.

HAWK (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--This station is on an island in the marsh about 1.8 miles NNE of Bear Inlet. It is in cultivated field 25 yards, E of an old pump stuck into the ground and is 10 yards N of an old barn. It was found in good condition and used in the 1933 scheme.

Reference mark No.1 (1933) was established (a standard brass disk stamped "HAWK 1-1933", set in concrete in the upper end of a 10-inch vitrified clay tile filled with concrete, projecting slightly above ground surface). It is in edge of field and is almost in range with an oak tree 8 yards SW of old pump.

OBJECT	DISTANCE		DIRECTION
BEAR	meters	feet	
R.M.No.1	26.331	86.39	0° 00' 00" 0
Nail in Blaze in			121 39 05.0
Oak tree	67.34	221.0	127 00 53.8



UNITED STATES COAST AND GEODETIC SURVEY
Descriptions of Triangulation Stations

BEACH (Onslow County, N.C., R.P.S., 1914)--This station is about 2 miles NE from Bear Inlet, on the S bank of the channel from Bogue Inlet to Bear Inlet, about 300 yards N of two small sand mounds. The channel just beyond the dredge channel takes a northerly direction for about 300 yards and then turns W; the station is about 125 yards W of the latter turn, close to high-water mark, about 3 yards from the bank.

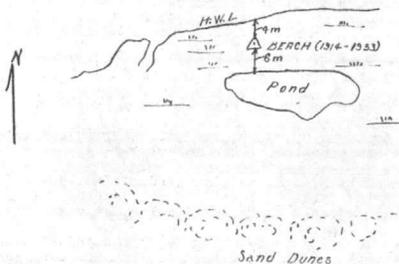
The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

BEACH (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927)--Station recovered. Top of mark broken off 3 inches above ground. Base of mark in good condition.

BEACH (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--This station is about 2 miles NE from Bear Inlet, on the S bank of the channel from Bogue Inlet to Bear Inlet, and about 300 yards N of 2 small sand mounds. The channel turns to the N just after leaving the dredge channel for about 300 yards and then turns W; the station is about 125 yards W of the latter turn, is at about high-water mark, and 3 yards from the bank.

The tile was found chipped and cracked and the old disk removed by vandals. New station mark, a standard brass disk stamped "BEACH 1914-1933", was placed in a 10- by 12-inch concrete collar built around old tile and concrete, and projects 6 inches above ground; disk being placed in the same hole in old concrete in old broken tile from which old disk had been removed. All of station is covered by extreme high water.

No suitable places for reference marks as marsh is all around station hence no reference marks were placed. Marsh is soft mud in which a 2 by 2 can be pushed 4 feet down by hand.



BEAR (Onslow County, N.C., R.P.S., 1914)--This station is on the S side of the channel from Bogue Inlet to Bear Inlet, on the first point E of Bear Inlet, about 30 feet from the end of the point, or about 15 feet from high-water mark.

The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are two reference marks, consisting of tiles, filled with sand and set in cement, projecting about 6 inches above the ground; one is 19.9 meters (65.3 feet) from the station to the SW; the other is 13.3 meters (43.6 feet) SE of the station.

The witness marks consist of blazes on three trees with 5 nails in each blaze; one is a cedar on the second point E of Bear Creek, about 200 yards from the station; the second is a large live oak, about 50 yards S; and the third is a cedar, about 40 yards SW, in range with the reference mark.

BEAR (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927)--Station is at high-water line.

Reference mark to SW no longer exists. Reference mark to SE is in good condition. The witness mark 40 yards to SW was found in good condition. The other witness marks were not searched for.

BEAR (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--The station mark, a standard bronze disk set in concrete in the top of tile, as described in note 6c, and reference marks were found in good condition. This station was used in the 1933 scheme.

The station is on the S side of the channel running from Bogue Inlet to Bear Inlet, on the first point E of Bear Inlet. Distance and direction to triangulation blaze on 2 1/2-inch cedar tree leaning to southward is as follows:

OBJECT	DISTANCE	DIRECTION
INLET 2		0° 00' 00" 0
Triangular Blaze	51.986 meters 170.57 feet	352 54 30.0
R.M. (1914) SE	13.3	



No. 476
Bogue Inlet to Wrightsville Inlet, North Carolina.

HAMMOCK (Onslow County, N.C., A.S.W., 1855; 1914)--This station is about 2 miles NNE from the entrance to Bear Inlet, in front of the live oak hammock formerly known as Pine Island (?), in 1888, the island belonged to the estate of Mr. Hawkins.

The station was re-marked in 1914 by a standard bronze disk set in concrete in the top of a tile as described in note 6c. The reference marks are 3 cedar stakes, 4 by 4 inches in size driven in the ground on three sides of the station, each having 3 nails placed in line with the station. A small live oak, with blaze and nails, is 3 yards N of the station in line with the southerly reference stake.

This station can be reached by landing near the mouth of the branch creek on the NW side of the hammock. Thence strike through the woods along the W side of a marshy glade, which runs in from the S to the station which is at the edge of the bushes at the first clear view up and down the coast.

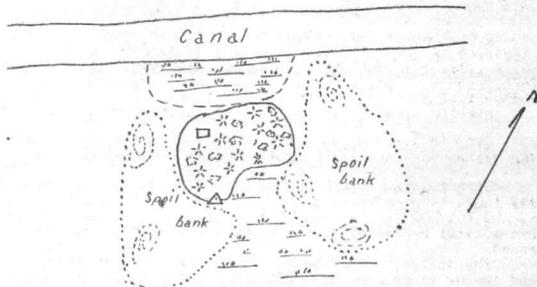
HAMMOCK (Onslow County, N.C., A.S.W., 1855; H.O., 1933)--Station recovered, station mark in good condition. Cedar posts gone. Blaze on live oak tree was re-cut.

The station lies 2 miles N by E from Bear Inlet on the S edge of an oak and pine hammock known locally as Pine Island. The hammock lies just S of the canal and shows very prominently because of the heavy growth of timber.

Recent dredging operations have deposited thick sand banks on the E and W sides of the hammock.

The station may be most easily reached by landing on the NW point of the hammock and following the tree line along the W side to the most southerly tangent.

The station was re-marked 1914, by a standard bronze disk set in concrete on the top of a tile, as described in note 6c. The only remaining reference mark is a triangular blaze on a small live oak 3 yards N of the station.



SAUNDERS (Onslow County, N.C., R.P.S., 1914)--This station is about 1 1/2 miles N from Bear Inlet, on the W side of Saunders Creek, on the S side of Saunder's land, about 200 yards W of a slough about 100 yards S of a row of live oak trees that run from marsh to marsh, and about 5 yards above high-water mark on the W side of a marsh that runs up into the field on the W side of a fence, at the S edge of a small cotton field.

The surface mark is a standard bronze disk set in concrete in the top of a tile, as described in note 6b.

The underground mark is set according to note 10d. The reference mark is a tile, filled with sand and set in cement projecting about 6 inches above the surface; it is 60 meters (197 feet) from the station near two live oak trees on the edge of a field, about at high-water mark. The E tree is blazed on the E side and has nails in the blaze.

SAUNDERS (Onslow County, N.C., R.P.S., 1914; N.C. Geod. S., 1927)--Station recovered, but concrete broken and bronze cap and pipe gone. It appears that the pipe and cap had been lifted out, concrete was broken, but not disturbed to the extent that the location was lost. I drove an iron pipe in center of concrete. My opinion is that the station is in original location. There was a temporary Coast Survey signal over station when I was there.

SAUNDERS (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927)--Surface mark has been removed and lost. Concrete surrounding tile was still in place but observing party removed this to uncover subsurface mark. The latter mark is a tile filled with concrete with no mark in top. Broken pieces of concrete were piled over underground mark.

Dredged canal passes about 65 meters SE of station. Marsh E and NE of station is known as Goose Creek. Small boat landing known as Eddy or Saltworks Landing crosses high-water line about 30 meters S of station. Saunder's Creek branches off of canal about 100 meters E of station.

Reference mark searched for but not found. Blazed tree has fallen down but is still alive and blaze is still prominent.

SAUNDERS (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--This station is about 1 1/2 miles N of Bear Inlet on a white shell bank W of Saunders Creek and on the N bank of the Inside Route Canal.

It was re-marked with a standard brass disk stamped "SAUNDERS 1914-1933" set in concrete in a 12-inch tile superimposed over old mark.

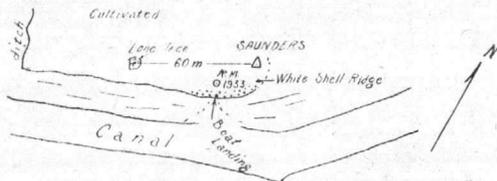
Reference mark No. 1 was established 5 meters inshore from high water at a boat landing. Boat landing is prominent because of white bank of shells. Reference mark is a standard brass disk marked "SAUNDERS NO. 1, 1933" set in a 12- by 12-inch box filled with concrete.

The station was used in the 1933 scheme.

OBJECT	DISTANCE	DIRECTION
BEAR		0° 00' 00" 0
R.M. No. 1 (1933)	30.375 meters 99.65 feet	52 55 00.0

(Continued on p. 4)

SAUNDERS (Continued)



MILL (Onslow County, N.C., R.P.S., 1911)--Station is about 300 yards E of Russell's Mill, on land owned by Saunders, about at high-water mark close to the brush. The station is about in line with SAUNDERS and the most southerly live oak tree at Russell's Mill. A live oak tree, with blaze and nails, is about 30 yards N of the station.

Surface mark is a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6b. The underground mark is set according to note 10d.

The reference mark is a tile, filled with and set in cement, projecting about 6 inches above ground, with an arrow pointing toward the station scratched in the cement. It is 41.7 meters (136.8 feet) W of the station, and 1 yard E of a large live oak tree that is blazed on the S and E.

MILL (Onslow County, N.C., R.P.S., 1911; K.T.A., 1927)--Station recovered in good condition. Russell's Mill has been torn down but a pile of sawdust is said to be there yet. The dredged canal passes about 50 meters SE of station and a spoil bank of white shells lies about 25 meters SE of station. Station is about 1 yard from high-water line.

MILL (Onslow County, N.C., R.P.S., 1911; A.P.R., 1932)--Station was destroyed when the interwaterway was put through.

MILL (Onslow County, N.C., R.P.S., 1911; H.O., 1933)--Station was found in good condition and was used in the 1933 scheme. It is about 1/2 mile E of Bear Creek, about 50 meters N of the inside route canal and about 30 meters N of a prominent white shell mound.

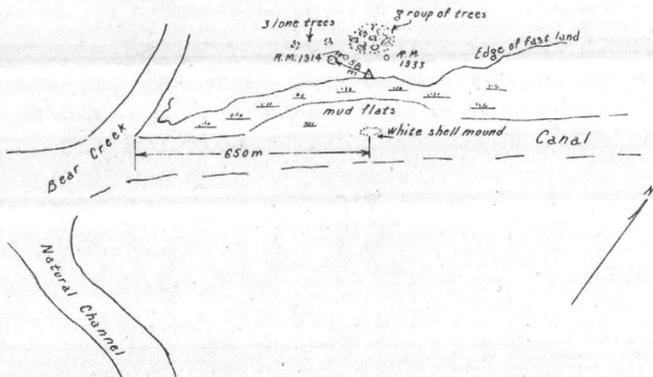
The station is marked by a standard mark set in concrete at the center of the top of a tile, as described in note 6b.

The underground mark is set according to note 10d.

The reference mark is a 4-inch tile filled with and set in concrete with an arrow pointing toward the station scratched in the concrete.

One new reference mark was established and marked by a standard bronze disk set in concrete at the center of the top of an 8-inch tile, as described in note 13a. It is 15 meters S of the tree line.

OBJECT	DISTANCE		DIRECTION
	meters	feet	
SAUNDERS			0° 00' 00" 0
R.M.No.1 (1911)	42.284	138.720	210 50 47.5
R.M.No.2 (1933)	21.680	71.135	307 42 20.0



INLET (Onslow County, N.C., R.P.S., 1911)--Station is on the inland side of the banks, about 200 yards W of the first bend W of Bear Inlet, about 75 yards W of a blazed lone cedar tree, 5 yards N of a blazed cedar in a clump of small trees, 5 yards from high-water mark.

The station is marked by a standard disk set in concrete at the center of the top of tile, as described in note 6c. There are no reference marks.

INLET (Onslow County, N.C., R.P.S., 1911; K.T.A., 1927)--Station could not be found. It has been washed away.

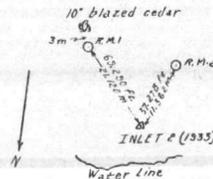
INLET (Onslow County, N.C., R.P.S., 1911; H.O., 1933)--Station is lost. The beach has eroded up to the blazed cedar in bunches of small trees. Pieces of broken tile and cement were found on the beach.

INLET 2 (Onslow County, N.C., H.O., 1933)--Station is on the N edge of sand dunes partly covered with grass, on the back side of the banks, about 200 yards W of the first bend W of Bear Inlet, and about 72 meters NW of a 10-inch blazed cedar tree. Cedar trees and other bushes grow southerly of station. Station mark is a standard bronze disk stamped "INLET 2, 1933" set in an 8-inch tile filled with cement, and projecting about 6 inches above ground surface.

Reference mark No.1 is set in an 8-inch tile filled with cement, projecting about 6 inches above the ground, and 3 meters N of a 10-inch cedar tree having a triangular blaze about 4 feet above the ground surface.

Reference mark No.2 is set in an 8-inch tile filled with cement, projecting about 6 inches above ground surface.

OBJECT	DISTANCE		DIRECTION
	meters	feet	
CAMP 2			0° 00' 00" 0
R.M.No.1	21.120	69.290	256 34 00.0
R.M.No.2	11.362	37.278	320 50 35.0
South gable of wooden shack N of the sta. (approx.) 500 yards			78 16 20.0



MEADOW (Onslow County, N.C., R.P.S., 1911)--Station is about 1 mile SW of Russell's Mill, on the W side of Bear Creek, on land owned by Mr. Meadow, about 40 yards E of Meadow's Landing, at about high-water mark, close to the brush.

The station is marked by a standard disk set in concrete at the center of the top of a tile, as described in note 6c. Three 2- by 5-inch oak stakes, with nails in the top of each stake are driven in line from the station to the water.

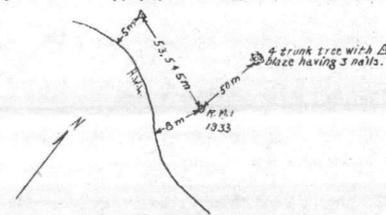
MEADOW (Onslow County, N.C., R.P.S., 1911; A.P.R., 1933)--Station was destroyed by the construction of the interwaterway.

MEADOW (Onslow County, N.C., R.P.S., 1911; H.O., 1933)--Station is about 1 mile SW of the ruins of Russell's mill on the W side of Bear Creek, about 40 yards E of Meadow landing, at about high-water mark and close to the brush.

It was recovered in 1933 and re-marked with a standard disk set in a 10- by 10-inch block of concrete. A reference mark was established.

Reference mark No.1 is a standard disk set in an 8-inch tile filled with cement, top of tile projecting 4 inches above ground surface. It is 8 50 meters from lone 4-trunk tree with triangular blaze on S trunk with 3 nails. Reference mark is SE 53.545 meters (175.665 feet) from station mark, and N approximately 8 meters from high-water line.

OBJECT	DISTANCE		DIRECTION
	meters	feet	
MILL			0° 00' 00" 0
R.M.No.1 (1933)	53.545	175.665	32 57 02.5



CAMP (Onslow County, N.C., R.P.S., 1911)--Station is about 1 1/2 miles SW from Bear Inlet, about 100 yards NW of a high sand peak with two small grassy knolls, about 75 yards E of where the brush breaks off of banks, about 15 yards S of the point where the creek turns from the bank and extends N to the dredge channel, about 50 yards S of high-water mark.

The station is marked by a standard disk set in concrete at the center of the top of a tile, as described in note 6c. There are no reference marks.

CAMP (Onslow County, N.C., R.P.S., 1911; K.T.A., 1927)--Station could not be found. It has probably been washed away.

CAMP (Onslow County, N.C., R.P.S., 1911; H.P.O., 1933)--Thorough search made for the station. It has been washed away.

CAMP 2 (Onslow County, N.C., H.O., 1933)--Station is located about 1 2/3 miles SW from Bear Inlet. It is on a small sand spit that makes out into the marsh where channel leaves the bank and runs NW into the marsh. It is 75 meters W of the channel bank.

Station mark is a standard disk stamped "CAMP 2-1933", set in cement in the top of an 8-inch vitrified clay tile filled with concrete, projecting slightly above ground surface, 3 1/2 meters S of high-water mark, and 12 meters N of a sand ridge at eastern extension of a bush line bordering southern edge of marsh.

Reference mark No.1 is a standard brass disk stamped "1-CAMP 2-1933", set in cement in the top of an 8-inch tile filled with cement, projecting 6 inches above ground surface, 1 meter N of sand ridge mentioned before, and 5 meters W of high-water mark.

Reference mark No.2 is a standard brass disk stamped "2-CAMP 2-1933" set in cement in the top of an 8-inch tile filled with cement, projecting 6 inches above ground surface, SSW of station mark and about 10 meters SW of NE end of bush line bordering S

(Continued on p.5)

UNITED STATES COAST AND GEODETIC SURVEY
Descriptions of Triangulation Stations

Bogue Inlet to Wrightsville Inlet, North Carolina.

CAMP 2 (Continued)

side of marsh, and 1 meter S of bush line.

Both station and reference mark No.1 are probably covered by storm high water but not by normal high water.

OBJECT	DISTANCE		DIRECTION
	meters	feet	
STILL			0° 00' 00" 0
R.M.No.1	10.996	36.072	211 49 30.0
R.M.No.2	43.112	141.448	300 09 55.0



STILL (Onslow County, N.C., R.P.S., 1914) -- Station is about 1 1/4 miles N from Brown's Inlet, about 200 yards from Still Landing on Still Creek, on property known as Ward's Tract but owned by a Mr. Gillett, on the S side of land that runs out into the marsh quite a distance from the station, about 40 yards from water on the S side which is covered with a growth of sage grass. The station is marked by a standard disk set in concrete at the center of the top of a tile, as described in note 6c. The reference mark is a tile, filled with and set in cement, located 31.6 meters (104 feet) from the station, or just a little E of a line from BROWN. A large live oak tree near the station has a blaze with nails on it.

STILL (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927) -- Station recovered as described with reference mark in good condition. Small boat landing about 1/4 mile S of station. Unimproved road leads NW 200 yards from landing and a dim foot path leads NE to blazed tree. 200 yards approximately.

STILL (Onslow County, N.C., R.P.S., 1914; A.P.R., 1933) -- Station not recovered in 1933. It had been destroyed, probably plowed up. Portions of concrete collar were found about 30 meters from reference mark. Reference mark had no bronze marker, only an arrow out in concrete. Location is in center of field on what is known as Gillette's Point, and 400 meters W of inland waterway.

STILL (Onslow County, N.C., R.P.S., 1914; H.O., 1933) -- Station is about 1 1/4 miles N of Brown's Inlet, and about 1/4 mile N of small boat landing on canal. From the boat landing a road leads into the woods past a small frame house. From this road a dim footpath leads past a blazed tree with nails in the blaze which is near reference mark "1914."

The station was recovered and re-marked with a standard disk stamped "STILL 1914-1933", set in a 10-inch tile filled with concrete, projecting 2 inches above the surface. There is no underground mark. Reference mark No.1 (1933) was established. It is a standard disk stamped "STILL NO.1-1933", set in cement in the top of an 8-inch tile filled with concrete, projecting 6 inches above ground surface. It is about 8 meters N of tree line that separates field from marsh, and about 3 meters W of small drainage ditch.

OBJECT	DISTANCE		DIRECTION
	meters	feet	
FIG	31.47	103.22	0° 00' 00" 0
R.M. (1914)	31.47	103.22	25 49 15.0
R.M.No.1 (1933)	33.95	111.39	93 39 45.0



FIG (Onslow County, N.C., R.P.S., 1914) -- Station is about 1 mile NE of Brown's Inlet, about in the middle of the banks, 700 yards E from a fish house out in the marsh, on the largest sand knoll surrounded by three large sand pits, one to the N, one to the SE, and one to the SW. The SE pit has a few myrtle bushes on the side next to the station, the SW pit has a small knoll in the NE corner.

The station is marked by a standard disk set in concrete at the center of the top of a tile, as described in note 6c. There are no reference marks.

FIG (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927) -- Station could not be found. The sand dunes are constantly shifting, and the station was probably covered over.

FIG (Onslow County, N.C., R.P.S., 1914; H.O., 1933) -- Station is in about the middle of the banks about 2/3 the distance from Bear Inlet to Brown's Inlet. It is on a large sand knoll. To the SE

is a pit in which are growing some myrtle bushes.

Station is a standard disk set in concrete at the center of the top of a tile, as described in note 6c, and was recovered in perfect condition, and was used in the 1933 scheme. It was covered with about a foot of sand.

A reference mark was established, a standard disk set in a 1 1/2 by 1 1/2-inch concrete post, in range with station STILL and approximately NW of the station.

OBJECT	DISTANCE		DIRECTION
	meters	feet	
STILL			0° 00' 00" 0
R.M.No.1 (1933)	34.254	112.390	359 50 30.0

BROWN (Onslow County, N.C., R.P.S., 1914) -- Station is about 400 yards E of Brown's Inlet, on the N side of the highest sand peak, at the S edge of the woods that run around the N side of the banks. The peak breaks off very abruptly on the S side of the station and in the sand pit there are some small trees.

The surface mark is a standard disk set in concrete at the center of the top of a tile as described in note 6b. The underground mark is set according to note 10d. Four small stubs are driven about 2 feet from the station. There are no reference marks.

BROWN (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927) -- Sand peak on which station was located has partly shifted. Station mark was found at the bottom of the peak. Underground mark could not be found.

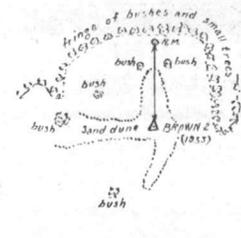
BROWN (Onslow County, N.C., R.P.S., 1914; H.O., 1933) -- Station could not be found. All that remains of the sand dune is a narrow ridge about 1 yard wide, and a deep pit on its W side. Pieces of tile and cement found. Subsurface mark was also searched for but could not be found.

BROWN 2 (Onslow County, N.C., H.O., 1933) -- Station is located about 400 yards E of Brown's Inlet, on the highest point of a high sand dune, about 100 yards W of sand dune on which the original station was located. All that remains of old station dune is a narrow ridge about 1 yard wide and a deep pit on its W side. New station is on the highest sand dune in the immediate vicinity.

The station mark is a standard disk stamped "BROWN 2, 1933" set in an 8-inch tile filled with cement, projecting 4 inches above ground surface.

The reference mark is a standard brass disk set in an 8-inch tile filled with cement, projecting 5 inches above ground surface, at the edge of a fringe of bushes and small trees mostly cedar and myrtle. Reference mark is approximately N of station mark.

OBJECT	DISTANCE		DIRECTION
	meters	feet	
EAGLE	26.894	88.240	0° 00' 00" 0
R.M.			12 51 41.2



EAGLE (Onslow County, N.C., R.P.S., 1914) -- Station is about 1 mile NNW of Brown's Inlet, in Mr. Gillette's field, about 150 yards from Hammock Creek. There is a small ditch that leads about 15 yards S of the station and enters a clump of woods E of the station.

The surface mark is a standard bronze disk set in concrete in the top of a tile, as described in note 6b.

The underground mark is set according to note 10d.

The reference mark is a tile filled with, and surrounded by cement, projecting about 6 inches above the surface. It is located at the edge of the field, on the N side of a clump of bushes near high-water mark, and is 101 meters, (331 feet) SW of the station.

EAGLE (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927) -- Station searched for but not found. Mr. Gillett reports striking station mark while plowing and mark is now buried.

EAGLE (Onslow County, N.C., R.P.S., 1914; H.O., 1933) -- Station is located in a plowed field on land belonging to Mr. Gillett. It's about 1 mile NNW from Bear Inlet and W by N from a point on the canal where a prominent channel leads S toward Bear Inlet.

Surface mark was broken by plow. Subsurface mark was found undisturbed and in perfect condition. New mark was placed over subsurface mark, but also below ground surface. It is a standard brass disk stamped "EAGLE, 1914-1933", set in cement in a section of 10-inch vitrified clay tile 1 foot long filled with concrete resting on a 3-inch cushion of sand. Top of tile is 12 inches below ground surface.

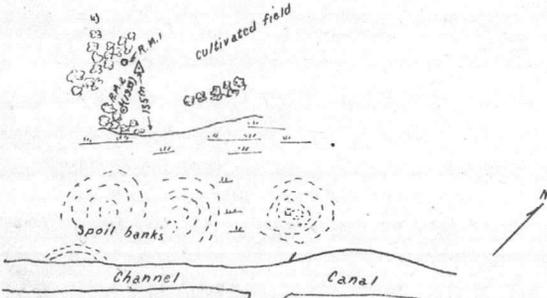
A new reference mark, reference mark No.2, was established. A standard brass disk stamped "EAGLE 2 1933", set in cement in the bell end of 10-inch vitrified clay tile filled with concrete. Top of tile is 4 inches above ground surface. It is in the edge of the bush line on the far side of a shallow ditch at the edge of the field N by W from the station.

Reference mark No.1, (1914) was recovered in good condition. It is a 4-inch vitrified tile set in and filled with concrete and projecting about 6 inches above ground on the W edge of the brush line which marks the high-water line and the edge of the field, 101 meters, (331 feet) SW of the station.

(Continued on p.6)

EAGLE (Continued)

OBJECT	DISTANCE		DIRECTION
	meters	feet	
FIG			0° 00' 00.0
R.M. (old-1914)	101	331	88 56 00.0
R.M.No.2 (1933)	42,900	140,75	168 42 00.0



FREE (Onslow County, N.C., R.P.S., 1914; 1933)--Station is about 1 1/4 miles W of Browns Inlet, in Freeman's field, about 35 yards W of road which leads to Freeman Landing, about 450 yards from landing, 50 yards N of woods, about 300 yards E of high-water mark, and 40 yards W of head of ditch which drains field E of road. In 1932, surface mark was not found, but underground mark, set according to note 104, was recovered and station was re-marked with standard disk station mark stamped "FREE 1914-1932" set in concrete block. Top of block is 10 inches below surface. Original reference mark is tile filled with sand set in concrete, 1 yard W of road, and 31.582 meters (103.62 feet) from station in azimuth 231° 35'. Three standard reference disks set in concrete, as described in note 118, was placed in 1932. No.2 is 53.242 meters (174.68 feet) from station in azimuth 297° 47'. No.3 is approximately 200 meters (656 feet) from station in azimuth 165° 48' 52". No.4 is 32.690 meters (107.25 feet) from station in azimuth 228° 31'.

CEDAR (Onslow County, N.C., R.P.S., 1914)--Station is about 3/4 mile SW from Browns Inlet, on the ocean side of the banks, on the highest sand knoll, 29.2 meters (96 feet) E of the NE corner of a fishing shed at Browns Inlet Fishing camp, nearly in line with a dead cedar and the SE corner of the fishing shed. The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

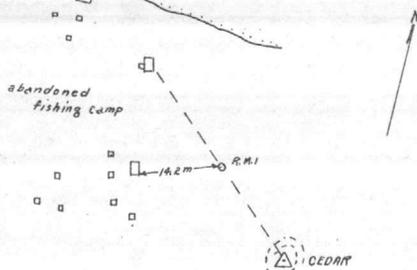
CEDAR (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927)--The station could not be found. It was probably destroyed by shifting sand dunes.

CEDAR (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--Station recovered. Description is adequate except that the station is not on the highest sand dune.

The station was found in good condition and was used in the 1933 scheme. It was covered about a foot by sand but showed no evidence of having been disturbed.

One reference mark was established.

OBJECT	DISTANCE	DIRECTION
FREE		0° 00' 00.0
R.M.No.1, (1933)	32.690 meters 107.25 feet	355 56 47.5



HURST (Onslow County, N.C., R.P.S., 1914)--Station is about 1 3/4 miles westerly from Browns Inlet, about N of Hurst Landing, 5 yards W of a fence that runs down to the water at the landing, 2 yards S of a large live oak with blaze and nails near the high-water mark.

The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c.

The reference mark is a tile, filled with sand and set in cement, projecting about 6 inches above ground. It is just E of the fence, between two large blazed oak trees, and 6.4 meters (21.0 feet) E of the station.

HURST (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--Station recovered. Description adequate with the following addition: It is about 11 meters N of Hurst Landing.

The station was found in good condition and used in the 1933 scheme.

PIVER (Onslow County, N.C., R.P.S., 1914)--Station is about 1 3/4 miles SW from Browns Inlet, on the inland side of the banks, nearly in range with triangulation stations "BROWN" and "CEDAR", about S of a cedar tree with blaze and nails.

The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

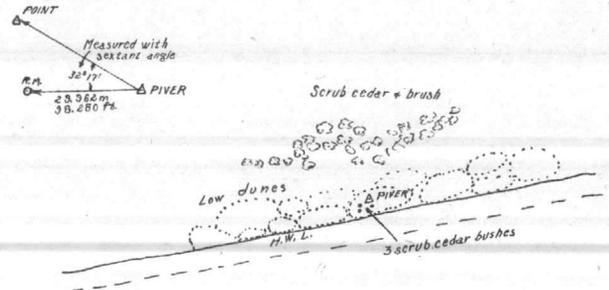
PIVER (Onslow County, N.C., R.P.S., 1914; K.T.A., 1926)--Station recovered. Mark was buried in sand. The witness marks were gone.

PIVER (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--Station is on the sand dunes along the high-water line on the S side of the banks 1 3/4 miles SW from Browns Inlet, and on range with BROWN 2, and CEDAR.

Station recovered, top of tile with station disk had been broken off. About 2 feet of tile was in a vertical position firmly embedded in a collar of cement; the 2 by 2 stake came up through the center of the tile.

Station was re-marked by centering the same station disk over the wooden 2 by 2 stake, in an 8-inch tile filled with cement, and projecting 6 inches above the top of the dune.

A reference mark disk was set in the top of an 8-inch tile filled with cement and projecting 6 inches above the surface, approximately W of the station and just outside the SE corner of a clump of small cedar trees and myrtle bushes.



POINT (Onslow County, N.C., R.P.S., 1914)--Station is about 2 miles SW from Browns Inlet, at the E point of woods, at an old log ditch, 30 yards E of a water fence that runs about S from the woods, at about high-water mark.

There is a blazed live oak 2 yards N of the station on which there is a bench mark established by U.S. Army Engineers.

The surface mark is a standard bronze disk set in concrete in the top of a tile, as described in note 6c.

The underground mark is set according to note 10d. The reference mark is a tile filled with, and set in concrete, projecting about 6 inches above the surface. It is located behind three live oak trees, 6.3 meters (20.7 feet) N from the station.

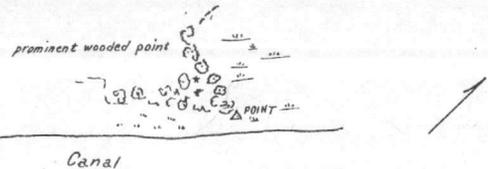
POINT (Onslow County, N.C., R.P.S., 1914; A.P.R., 1932)--Station recovered in good condition. Description adequate with the following additions: A U.S.E.D. bench mark is on a blazed tree (oak) 2 meters N of station. Station is at the second point of woods from station HURST. Reference mark is 6.3 meters N behind 3 live oak trees.

POINT (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--Station is about two miles SW of Browns Inlet at the SE edge of a point of woods N of the Inside Route Canal. It was found in good condition and was used in the 1933 scheme.

The surface mark is a standard bronze disk set in concrete in the top of a tile, as described in note 6b.

The underground mark is set according to note 10d.

The reference mark is a standard bronze disk set in concrete in the top of a tile, as described in note 13b, is 6.3 meters (20.7 feet) N of the station behind three live oak trees.



WINDY (Onslow County, N.C., R.P.S., 1914)--Station is about 2 miles SW from Browns Inlet, on the first high sand knoll SW of PIVER, on the ocean side of the banks.

The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c.

There are no reference marks.

WINDY (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927)--Station could not be found. It was probably destroyed by shifting sand dunes.

WINDY (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--This station, reported in 1927 as lost and probably destroyed by shifting sand dunes, was found intact and in excellent condition. The top of the mark with station disk in center was covered by about 18 inches of sand.

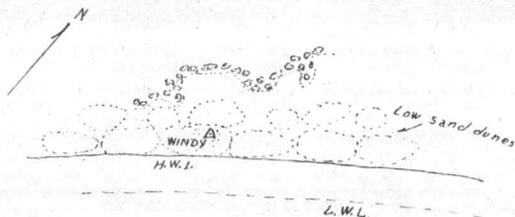
Should have a reference mark to aid in future recovery. The station lies on the highest part of the row of sand dunes along the S side of the banks, two miles SW from Browns Inlet.

(Continued on p.7)

UNITED STATES COAST AND GEODETIC SURVEY
Descriptions of Triangulation Stations

Bogue Inlet to Wrightsville Inlet, North Carolina.

WINDY (Continued)



HORSEHEAD (Onslow County, N.C., A.S.W., 1855; 1914)--Station is about 2 1/2 miles SW from Browns Inlet, at a place locally known by the same name, at the E end of a grove of scrub oak and myrtle, close to the creek.
The station was re-marked in 1914 by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

LOW (Onslow County, N.C., R.P.S., 1914)--This station is about 3 miles SW of Browns Inlet, on a ridge on the ocean side of the banks, about 150 yards E of a fishing camp. There are small sand knolls just E and W of the station.
The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

LOW (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927)--The station could not be found. It was probably covered up by shifting sand dunes.

LOW (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--This station was recovered. It is nearly midway between New River Inlet and Browns Inlet on the first sand dune above high-water line. It is about 200 meters W of a fisherman's shack.
A reference mark was established. It is a standard brass disk set in concrete in an 8-inch vitrified clay tile, projecting 8 inches above the surface.

OBJECT	DISTANCE		DIRECTION
PINE	meters	feet	
R.M.No.1 (1933)	20.908	68.600	0°00'00"0 16 00 00 (sextant angle)

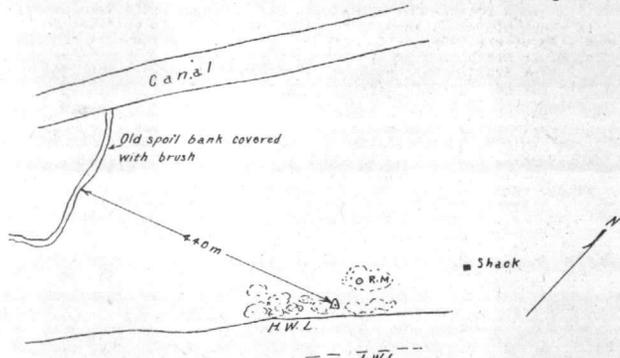
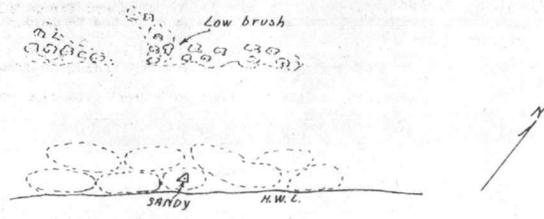
SANDY (Onslow County, N.C., R.P.S., 1914)--Station is about 2 1/2 miles SW from Browns Inlet, on the ocean side of the banks, on top of a ridge which runs parallel with the beach, about 8 yards from high-water mark.

The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

SANDY (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927)--Station could not be found. It was probably undermined by shifting sand dunes, and later covered over.

SANDY (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--Station recovered with brass disk and tile intact. It was covered by only an inch or two of sand. This station was reported in 1927 as lost and probably undermined by shifting sand dunes and covered over.

There is a fisherman's small dwelling about 300 yards W-SW of the station.



WEEK (Onslow County, N.C., R.P.S., 1914)--Station is about 2 1/2 miles SW from Browns Inlet, 75 yards NW of Weeks Landing, and 10 yards W of a road that runs into the woods from the landing.

The surface mark is a standard bronze disk set in concrete in the top of a tile, as described in note 6b.

The underground mark is set according to note 10d. The reference marks are tiles filled with, and set in cement.

A blazed live oak tree which is 5 yards W of the road, is 15 meters (49 feet) N of the station. Another blazed live oak is 10 meters (33 feet) S of the station, in line with the station, and the other blazed live oak.

Reference mark No.1 is 1 yard W of a blazed live oak, and 19.2 meters (63 feet) N of the station.

Reference mark No.2 is between three blazed live oak trees, 11.1 meters (36.4 feet) S of the station.

The two reference marks and the station are in line.

WEEK (Onslow County, N.C., R.P.S., 1914; K.T.A., 1926)--Station and reference marks were found as described. The station is a little W of N from Weeks Landing.

WEEK (Onslow County, N.C., R.P.S., 1914; A.P.R., 1932)--Station located about 2 1/2 miles SW from Browns Inlet and about 75 meters NW of Weeks Landing, and 10 meters W of road that runs into woods from landing.

Live oak tree blazed 15 meters N of station and 5 meters W of road.

Live oak tree blazed 10 meters S of station. Two blazed trees and station on range.

Reference mark is 19.2 meters (taped) N of station, 1 meter W of large live oak (blazed).

Reference mark 11.1 meters S of the station between three blazed live oak trees.

Reference marks and station on range. All marks found in good condition.

This station was not used as the seasons work did not extend this far.

WEEK (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--Station is 2 1/2 miles SW from Browns Inlet, about 75 yards N of Weeks Landing on the canal, and 10 yards W of a road that runs into the woods from the landing.

Reference mark No.1 is one yard W of a blazed live oak, and 19.2 meters (63 feet) N of the station.

Reference mark No.2 is between three blazed live oak trees, 11.1 meters (36.4 feet) S of the station.

The two reference marks and the station are in line. The station was found in good condition and was used in 1933.

PINE (Onslow County, N.C., R.P.S., 1914)--This station is about 3 miles SW of Browns Inlet, on the W edge of Inlet Point, where a clump of pine trees extend out to the marsh.

The surface mark is a standard bronze disk set in concrete in the top of a tile, as described in note 6b. The underground mark is set according to note 10d.

The reference mark is a tile, filled with and set in cement, projecting about 6 inches above the ground; it is 18.3 meters (60.3 feet) from the station in azimuth 229°47'.

Two pine trees are blazed on the sides toward the station and four or five nails are driven in each blaze; one is 4 meters (13 feet) N of the station; the other 4 meters (13 feet) E of the station.

PINE (Onslow County, N.C., R.P.S., 1914; A.P.R., 1933)--Station was not recovered blazed trees were not found, nor was reference mark.

PINE (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--Station recovered and used in scheme. It is about 5 miles NE of New River Inlet, on the W edge of Inlet point, where a clump of pine trees comes out to the marsh.

Surface mark found in good condition. Underground mark not investigated. The reference mark could not be found. Both of the blazed trees are dead and one has fallen.

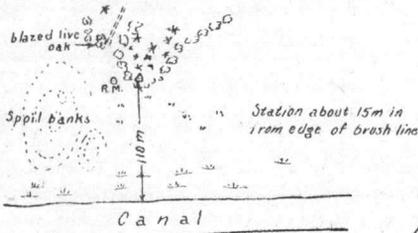
A 12-inch tree 5.4 meters W of the station was blazed and three nails driven in the blaze.

One new reference mark was established 25.113 meters (82.39 feet) SW, 223°30' of the station. It is about 15 meters S of the tree line on the pumped-in sand.

A 30-inch oak about 70 meters W of the reference mark was blazed with a triangular blaze and three nails driven in the blaze. The oak is along side a road that leads out of the woods.

(Continued on p.8)

PINE (Continued)



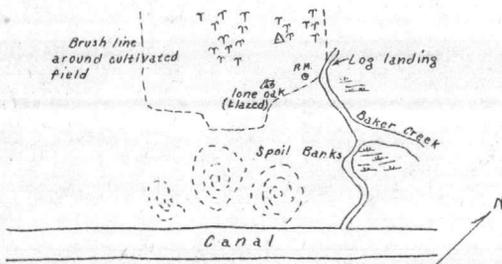
GILLETTS CREEK (Onslow County, N.C., A.S.W., 1855; 1914)--This station is about 3 1/4 miles SW of Browns Inlet, on a marsh which has a comparatively low growth of grass, about 30 yards ENE of Gillett's Creek, in line with the end of a hedge on the opposite side.
 The station was re-marked in 1914, by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

BAKER (Onslow County, N.C., R.P.S., 1914)--This station is about 3 1/4 miles SW of Browns Inlet, about 60 yards NW of the log landing at Baker Creek.
 The surface mark is a standard bronze disk set in concrete in the top of a tile, as described in note 6b. Underground mark is set according to note 10d.
 The reference mark is a tile filled with and set in cement projecting about 6 inches above ground. It is 34.4 meters (112.9 feet) S of the station, in line with the first pine W of the landing which was blazed and had an arrow pointing toward the station out in its surface.

BAKER (Onslow County, N.C., R.P.S., 1914; A.P.R., 1933)--Tile broken up, and marker not to be found. Point appears to have been torn up. Reference mark not searched for.

BAKER (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--The station is about midway between Brown Inlet and New River Inlet on the N side of the canal. It is about 60 yards NW of the log landing on Baker Creek in a cultivated field.
 The station was recovered in 1933. The surface mark had been plowed up and was found lying at the edge of the field. Underground mark was found in good condition.
 New surface mark, standard disk was placed over it in a 12-inch tile filled with concrete. Lone live oak tree (2 1/2 inches in diameter), SSW of station was blazed with triangular blaze. Three nails were driven in blaze.
 The reference mark (a standard disk set in a 4-inch tile filled with concrete) was found in good condition.
 Distance to reference marks remeasured and found to be 44.272 meters instead of 34.4 meters. Blazed pine tree had burned.

OBJECT	DISTANCE	DIRECTION
PASS	meters	0° 00' 00" 0
Blazed tree (Live oak)	51.56	21 51 25.0
R.M. (1914)	44.272	303 39 30.0

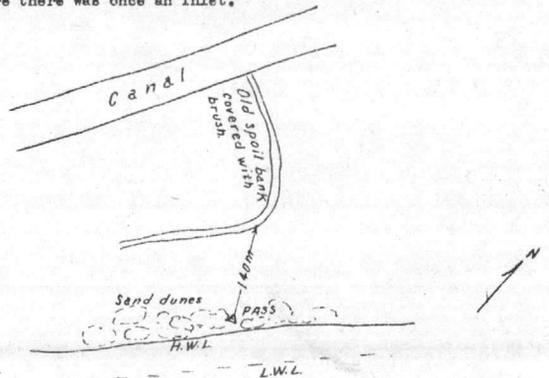


PASS (Onslow County, N.C., R.P.S., 1914)--This station is about 3 1/4 miles SW of Browns Inlet, on the ridge on the ocean side of the banks, about 70 yards W of an old cabin, or 20 yards W of a former inlet.
 The station is marked by a standard bronze disk set in concrete in the top of a tile as described in note 6c. There are no reference marks.

PASS (Onslow County, N.C., R.P.S., 1914; K.T.A., 1926)--Found as described. Station in good condition.

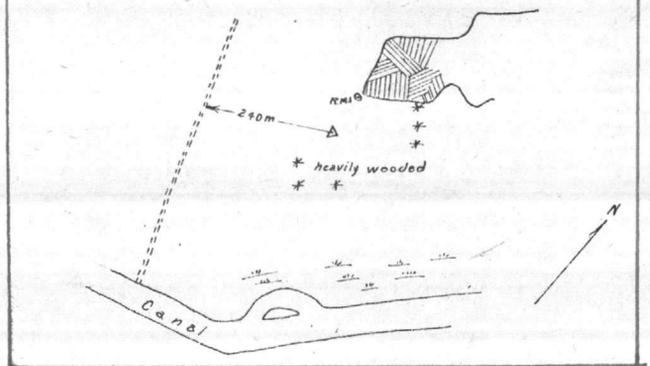
PASS (Onslow County, N.C., R.P.S., 1914; A.P.R., 1933)--Located about 3 1/4 miles SW of Browns Inlet on ridge on S side of banks about 70 meters W of old cabin and about 20 meters W of where there was once an inlet.
 Station is marked by tile pipe and standard disk. Station was recovered in good condition, but was not used.

PASS (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--Station recovered and found in good condition.
 Station is about half-way between New River and Bear Inlet, on the ridge on the S side of the banks, and it is about 20 yards W of where there was once an inlet.



SWAMP (Onslow County, N.C., R.P.S., 1914)--This station is about 3 3/4 miles SW of Browns Inlet, in the woods S of the SW corner of a field, about 20 yards from a slough to the S and W. The station is marked by a standard bronze disk set in concrete in the top of a tile as described in note 6c. The reference marks are tiles filled with and set in cement. Reference mark No.1 is in the SW corner of the field, 5 yards N of a blazed pine tree, and is 35.4 meters (116 feet) N of the station.
 Reference mark No.2 is 4 yards N of the dredge cut, just W of a small ditch that leads up into the marsh, and is 29.4 meters (965 feet) from the station in azimuth 323° 10'.

SWAMP (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--Station and reference mark No.1 were recovered and found in good condition. Station is nearly midway between New River Inlet and Brown Inlet in the woods to the N of the canal. It is S of the SW corner of a cultivated field.
 Reference mark No.1, a 4-inch tile filled with and set in concrete, is in the SW corner of the cultivated field, 35.4 meters (116 feet) N of the station.
 Reference mark No.2 is 29.4 meters (965 feet) from the station in azimuth 323° 10' 47".
 Reference mark No.2 was not searched for.



SNAG (Onslow County, N.C., R.P.S., 1914)--This station is about 3 3/4 miles SW of Browns Inlet, on the S side of the banks 1 yard W of a cedar snag.
 The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

SNAG (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927)--Station was recovered and found in good condition. It is 43 meters from high-water line.
 NOTE--Destroyed during construction of Intracoastal Waterway. Letters from Atlantic, Gulf and Pacific Co., Swansboro, N.C., January 17 and February 19, 1930.

SNAG (Onslow County, N.C., R.P.S., 1914; A.P.R., 1933)--Tile was recovered completely unscathed, and in a very battered condition. Marker had been removed. The station was not used in the new scheme.

SNAG (Onslow County, N.C., R.P.S., 1914; H.O., 1933)--Station destroyed. Broken tile and cement work found washed out of sand dune.

CROSS (Onslow County, N.C., R.P.S., 1914)--This station is about 3 3/4 miles NE from New River Inlet, on the E side of a sand hill, about 20 yards N of the ridge on the ocean side of the banks. The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

(Continued on p.9)

UNITED STATES COAST AND GEODETIC SURVEY
Descriptions of Triangulation Stations

Bogue Inlet to Wrightsville Inlet, North Carolina.

CROSS (Continued)

CROSS (Onslow County, N.C., R.P.S., 1911; K.T.A., 1927)--Station recovered and found in good condition. It is 43 meters from high-water line.

CROSS (Onslow County, N.C., R.P.S., 1911; A.P.R., 1933)--Mark recovered. Sand had blown away, destroying station.

CROSS (Onslow County, N.C., R.P.S., 1911; H.O., 1933)--Station destroyed. Tile and cement work found at the base of the sand dune from the top of which it had rolled down.

HIGH (Onslow County, N.C., R.P.S., 1911; H.O., 1933)--This station shown as recovered on H. Odessy's Progress Sketch, N.C. No. 109.

Not described in North Carolina compiled sheets. Was originally a 90-foot signal erected in the woods, and was not marked. See GA 70059, Vol. 2, page 12.

HENDERSON (Onslow County, N.C., R.P.S., 1911)--This station is about 3 1/2 miles NE from New River Inlet, about 20 yards E of a road that runs to Horseford Landing, at the edge of woods, and at about high-water mark.

The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. The reference mark is a tile filled with and set in cement, projecting a little above ground. It is 5.3 meters (17.4 feet) about W from the station and 1 yard N of a blazed oak tree.

HENDERSON (Onslow County, N.C., R.P.S., 1911; H.O., 1933)--This station is lost. It was probably destroyed when the new waterway was out.

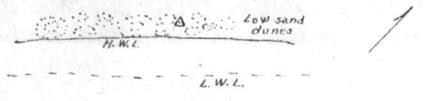
TIE (Onslow County, N.C., R.P.S., 1911)--Station is about 3 1/2 miles NE from New River Inlet, on the top of the ridge on the ocean side of the banks, about S from Horseford Landing.

The station is marked by a standard disk set in concrete at the center of the top of a tile, as described in note 6c. There are no reference marks.

TIE (Onslow County, N.C., R.P.S., 1911; K.T.A., 1927)--Station recovered in good condition. It is about 50 meters to high-water line.

TIE (Onslow County, N.C., R.P.S., 1911; A.P.R., 1932)--Station recovered in good condition. This station was used for topographic control along the interwaterway.

TIE (Onslow County, N.C., R.P.S., 1911; H.O., 1933)--Station was recovered in good condition. It is about 3 1/2 miles NE from New River Inlet, on the top of the ridge on the S side of the banks. It is about 3 from Horseford Landing.



NORTHEAST BASE (Onslow County, N.C., R.P.S., 1911)--Station is about 3 3/4 miles NE from New River Inlet, at about high-water mark, adjacent to station CROSS.

The station is marked only by a 4- by 4-inch pine stake with a tack for center. There are no reference marks.

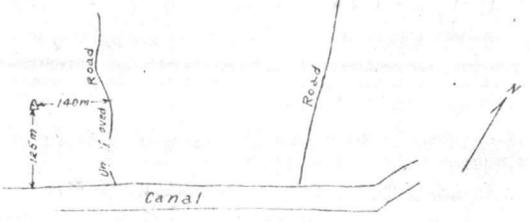
SOUTHWEST BASE (Onslow County, N.C., R.P.S., 1911)--Station is about 3 1/2 miles NE from New River Inlet, on the beach at about high-water mark, adjacent to station TIE.

The station is marked only by a 4- by 4-inch pine stake with a tack for center. There are no reference marks.

BRIER (Onslow County, N.C., R.P.S., 1911)--Station is about 3-1/2 miles NE from New River Inlet, about 250 yards W of a road that leads to Horseford Landing and about 150 yards back in the woods from the marsh.

The station is marked by a standard disk set in concrete at the center of the top of a tile, as described in note 6c. The reference mark is 8.3 meters (27.2 feet) from the station in azimuth 276°59'.

BRIER (Onslow County, N.C., R.P.S., 1911; H.O., 1933)--Station recovered in good condition. It is about 3 1/2 miles NE from New River Inlet and is about 125 meters back in the woods from the canal.



DUCK CREEK (Onslow County, N.C., C.D.M., 1932)--Station is 3 1/2 miles E of Marines post office. To reach from Piney Green on Route 24, take road leading S at cross road, keep main road straight ahead at 9.55 miles, turn right at forks with mileage sign Jacksonville 12.5, proceed 0.55 mile, turn right at forks with tobacco barn in "W" and proceed 0.6 mile to Frank Dennis' house back off road to right. Station is in an area 65.2 meters (214 feet) SSW of SW corner of Frank Dennis' house, 11.3 meters (37 feet) N of wagon road leading past station, and 7.2 meters (24 feet) W of lone 12-inch persimmon tree. Surface, underground, and reference marks are standard disks set in concrete, as described in notes 1a, 7a, and 11a. Reference mark No. 1 is at SW corner of Frank Dennis' house, and 65.10 meters (213.6 feet) from station in azimuth 185°48'. No. 2 is in cut-over timber land, 11.7 meters (38 feet) S of center line of road leading to station, and 36.21 meters (118.8 feet) from station in azimuth 284°54'. No. 3 is in NW corner of garden lot, 20 meters (66 feet) NW of NW corner of Negro house, 30 meters (98 feet) N of center line of road leading past station, and approximately 0.25 mile from station in azimuth 58°23'06'.

SEA (Onslow County, N.C., R.P.S., 1911; 1933)--Station is about 3 miles NE of New River Inlet, on E end of ridge which is N of ridge along S edge of beach. In 1927, mark was 45 meters (148 feet) from high-water line. Marked by a standard station disk in center of top of tile which is fastened by means of concrete to upper end of long wooden pile driven into marsh.

WILLIAMS (Onslow County, N.C., R.P.S., 1911; 1933)--Station is about 3 miles NE of New River Inlet, at SE corner of field owned by John Williams, about 25 meters (82 feet) NW of clump of oak trees, and just above high-water mark. Marked by standard station disk in center of top of tile which is fastened by means of concrete to upper end of long wooden pile driven into marsh. Reference mark is tile filled with and set in concrete, 1 meter (3 feet) N of oak tree blazed with three nails which is at edge of marsh, and 22.82 meters (74.9 feet) from station in azimuth 268°18'.

SHELL (Onslow County, N.C., R.P.S., 1911)--Station is about 2 1/2 miles NE from New River Inlet, on a high sand peak on the ridge at the ocean side of the banks, about S from a bay that is on the S side of the channel, and E of a pine hammock. The station is marked by a standard disk set in concrete at the center of the top of a tile, as described in note 6c. There are no reference marks.

SHELL (Onslow County, N.C., R.P.S., 1911; K.T.A., 1927)--Station could not be found. It was probably destroyed by shifting dunes.

SHELL (Onslow County, N.C., R.P.S., 1911; A.P.R., 1932)--High peak in original description no longer exists. Tile, cement, and bronze marks were found in a demolished condition in hollow.

VIN (Onslow County, N.C., A.P.R., 1932)--Station is about 2.3 miles NE of New River Inlet, about 0.5 mile SE of interoceanal waterway, opposite small bay, about 75 yards inshore from main ridge of sand dunes, and on summit of westerly of two prominent dunes. Marked by standard station disk in center of top of 8-inch tile embedded in ground, as described in note 6a. Top of tile is reinforced with 12-inch square cement collar which projects 6 inches.

BAY (Onslow County, N.C., R.P.S., 1911; 1932)--Station is about 2 miles NE of New River Inlet, in marsh on W side of small bay which leads from interwaterway up into Williams' field, about 100 meters (328 feet) from edge of woods on W and N sides of bay, and about 10 meters (33 feet) W of edge of water. Originally marked by standard station disk in center of top of tile which was fastened by means of cement to upper end of long wooden pile driven into marsh. Re-marked in 1932 by standard station disk in center of top of 8-inch tile filled with concrete, embedded in ground, and reinforced with square concrete collar. Original reference mark was 3 yards from water and 19.8 meters (65 feet) from station. In 1932, mark was found to have been destroyed, and two standard reference disks in center of tops of tiles embedded in ground, as described in note 13a, were established. No. 1 is 109.21 meters (358.3 feet) from station in azimuth 71°06'. No. 2 is 81.85 meters (268.5 feet) from station in azimuth 111°15'.

GAP (Onslow County, N.C., R.P.S., 1911)--Station is about 2 miles NE from New River Inlet, on the main ridge of the banks abreast of the wharf at Craig Point. It is best reached by the slough that runs from the dredged cut opposite the wharf at Craig Point. The station is marked by a standard disk set in concrete at the center of the top of a tile, as described in note 6c. There are no reference marks. The knoll on which the station is located is of very shifting sand and displacement of the station is probable.

GAP (Onslow County, N.C., R.P.S., 1911; K.T.A., 1927)--Station has been undermined and was found lying at the bottom of the dunes.

GAP (Onslow County, N.C., R.P.S., 1911; A.P.R., 1932)--Thorough search made but station was not found. This station is probably buried in shifting sand dunes.

CRAIG (Onslow County, N.C., R.P.S., 1911; 1932)--Station is about 2 miles NE of New River Inlet, about 400 meters (1,312 feet) NW of Craig Point, and about 65 meters (213 feet) from tress on W border of Smith's field. Marked by standard station disk set in concrete in center of top of tile surrounded by mass of concrete, projecting about 6 inches. Reference mark was tile filled with and surrounded with cement, at about high-water mark on W edge of field, 2 meters (7 feet) from blazed tree, and 61.4 meters (201 feet) from station. Reference mark was not recovered in 1932.

SMITH'S HOUSE (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927)--Station not described on original work. It is a cupola on a red brick house.

SMITH'S HOUSE CUPOLA (Onslow County, N.C., R.P.S., 1914; A.P.R., 1932)--House was destroyed by fire.

PAVILION (Onslow County, N.C., R.P.S., 1914)--Station is about 1/2 mile NE of New River Inlet, at the W end of a ridge on the ocean side of the banks, on the southeasterly one of two prominent sand hills, about 50 yards E of where the ridge is completely washed away.

PAVILION (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927)--Station could not be found. It was probably undermined by shifting sand dunes.

PAVILION (Onslow County, N.C., R.P.S., 1914; A.P.R., 1932)--Station was found but in a demolished condition at the foot of a sand hill. This station was not used as the exact point could not be found. Station AMOS was established northward and in a location that would have more permanency.

AMOS (Onslow County, N.C., A.P.R., 1932)--Station is about 0.6 mile NE of New River Inlet, in slight hollow off southerly group of dunes, about 150 yards SE of 2 prominent dunes, about 35 yards S of myrtle bushes on edge of marsh, and about 50 yards SW of group of myrtle bushes in low land between 2 groups of dunes. Marked by standard disk set in concrete in center of top of tile embedded in ground, as described in note 6a. Reference marks are standard reference disks in center of top of tile embedded in ground, as described in note 13a. No.1 is in hollow NE of 2 high dunes, and 35.50 meters (116.5 feet) from station in azimuth 99°28'. No.2 is on slight hummock, and 21.47 meters (70.4 feet) from station in azimuth 223°21'.

CEDAR POINT (Onslow County, N.C., R.P.S., 1914; 1932)--Station is on S side of Cedar Point at mouth of New River, at about high-water mark, and 1 meter (3 feet) from brush. Marked by standard station disk set in concrete in center of top of 6-inch tile which is fastened by means of concrete to long wooden pile driven into marsh. In 1932, mark was reinforced with 12-inch square cement collar. Reference mark is tile filled with and set in cement, 3 yards S of blazed tree, and 10.975 meters (36.01 feet) from station in azimuth 267°36'.

SWAN POINT (U.S.E.) (Onslow County, N.C., R.P.S., 1914; 1932)--Station is located at W side of mouth of New River, on Swan Point. Surface mark is standard disk station mark in 4-inch tile, cemented to iron pipe which was original station mark. Tile projects 6 inches, and in 1932 was reinforced by 12-inch square cement collar. Reference mark is tile filled with and set in cement, about 4 yards from high water, and 14.69 meters (48.2 feet) from station in azimuth 64°14'. Station SWAN POINT ECCENTRIC is 200.211 meters (656.86 feet) from station in azimuth 116°33'49'.

SWAN POINT ECCENTRIC (Onslow County, N.C., C.D.M., 1932)--Station is on Swan Point, on W side of New River. To reach from Sneads Ferry post office, go E 1.6 miles on main road to Hatch Point, turn right onto side road around house on S side of road and close to it, proceed 0.8 mile, take right-hand fork with blazed tree in V, continue 0.15 mile, turn through left-hand gate, follow dim road along edge of field just to right of timber line 0.3 mile to another gate, pass through gate, and continue along timber line 0.17 mile to point where road disappears opposite blazed pine tree at left of line of travel. Station is in open area, 16.8 meters (55 feet) NW of 12-inch triangle-blazed pine tree, and about 8 meters (26 feet) W of edge of woods. Surface, underground, and reference marks are standard disks set in concrete, as described in notes 1a, 7a, and 11a. Reference mark No.1 is on W edge of woods, and 30.78 meters (101.0 feet) from station in azimuth 177°01'. No.2 is in cleared path to old station, on W edge of woods, and 31.45 meters (103.2 feet) from station in azimuth 301°28'. No.3 is 5 meters (16 feet) E of bank at water's edge (bank is 3 meters (10 feet) above water line at this point), about 15 meters (49 feet) NW of group of three 10-inch trees and approximately one-fourth mile from station in azimuth 147°00'27'. Station SWAN POINT (U.S.E.) is 200.211 meters (656.86 feet) from station in azimuth 296°33'45'. Reference mark of station SWAN POINT (U.S.E.) is in azimuth 300°03'30" from station. Path through woods has been made between this station and SWAN POINT (U.S.E.).

TILE (Onslow County, N.C., R.P.S., 1914)--Station is about 1 mile SW of New River Inlet, on the main ridge of the banks, on the first high peak, about 50 yards W of the fishing camp. The station is marked by a standard disk set in concrete at the center of the top of a tile, as described in note 6c. There are no reference marks.

TILE (Onslow County, N.C., R.P.S., 1914; A.P.R., 1932)--Thorough search was made for this station. Station was not recovered. This station is probably buried by shifting sand dunes. New station VIEW was established in this vicinity.

VIEW (Onslow County, N.C., A.P.R., 1932)--Station is on the ocean shore, about 1 1/4 miles SW of New River Inlet, about 125 yards from beach, 25 yards from edge of marsh bushes, and in hollow of first high dune S of path leading E from marsh. Marines Landing is visible midway between beacons Nos.2 and 4. Station and reference marks are standard disks set in concrete in center of top of tile embedded in ground. Reference mark No.1 is in hollow in direction of inlet, and 35.52 meters (116.0 feet) from station in azimuth 252°08'. No.2 is on slight rise at foot of above-mentioned dune, and 35.36 meters (115.8 feet) from station in azimuth 10°05'.

WRIGHTS ISLAND (U.S.E.) (Onslow County, N.C., R.P.S., 1914)--Station is located at New River Inlet, on a small sand knoll at the W end of Wright's Island, about 40 yards N of the pavilion.

The station was originally established by U.S. Engineers and marked by an iron pipe. In 1914, this pipe was carefully driven down to the surface and surrounded by a tile in which a standard bronze station tablet of the U.S.C. & G.S. was cemented, centered at the same position as the original point.

WRIGHTS ISLAND (U.S.E.) (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927)--No description of station was furnished, however, station no longer exists. Station lost, was on shifting sand dune.

LIGHTER (Onslow County, N.C., A.S.W., 1855; 1914)--Station is in the marshes between New River and the banks, and about 3/4 mile back from the entrance to New River Inlet.

The station was re-marked in 1914 by a standard disk set in concrete at the center of the top of a tile, as described in note 6c.

There are no reference marks.

LIGHTER (Onslow County, N.C., A.S.W., 1855; K.T.A., 1927)--Station recovered.

NORTH BASE (U.S.E.) (Onslow County, N.C., A.P.R., 1932)--Station is about 1 1/2 miles NW of New River Inlet, about 350 meters (1,148 feet) from interwaterway, on NW shore of narrow straight cut which leads SE from interwaterway to inlet, and 11.5 feet from high-water mark of cut. Marked by 6-inch square concrete monument projecting 0.3 foot, and inscribed with letters "U.S.E. 1913" and equilateral triangle.

SOUTH BASE (U.S.E.) (Onslow County, N.C., A.P.R., 1932)--Station is about 1 mile N of New River Inlet, at SE end of 1 mile out which leads from waterway to inlet. Marked by 6-inch square concrete monument projecting about 4 inches, and inscribed with letters "U.S.E." and equilateral triangle.

WRECK (Onslow County, N.C., R.P.S., 1914)--Station is about 2 1/4 miles SW of New River Inlet, on the main ridge of the banks. The station is marked by a standard disk set in concrete at the center of the top of a tile, as described in note 6c. There are no reference marks.

WRECK (Onslow County, N.C., R.P.S., 1914; K.T.A., 1926)--Station recovered as described. Station mark partially washed out and probably will not last long.

FISH (Onslow County, N.C., A.P.R., 1932)--Station is about 2 miles W of New River Inlet, about 125 yards from ocean beach, near Beacon No.1, about 150 yards SW of old fish shack, and on edge of myrtle bushes and marsh. Station and reference marks are standard disks set in cement in center of top of tile embedded in ground. Reference mark No.1 is in hollow between 2 dunes, and 19.99 meters (65.6 feet) from station in azimuth 139°57'. No.2 is at edge of myrtle bushes, and 22.19 meters (73.8 feet) from station in azimuth 228°46'.

GRANT (Onslow County, N.C., R.P.S., 1914)--Station is on a small marsh at the mouth of a small creek which leads NE from Alligator Bay, about 20 yards from the S bank of the creek, and about 10 yards from the Bay.

The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

GRANT (Onslow County, N.C., R.P.S., 1914; A.P.R., 1932)--Station located in marsh about 20 meters southeastward of small creek leading northeastward from Alligator Bay, and about 10 meters from the bay.

Station and reference marks are standard bronze disks set in concrete in the center of the top of tile which are embedded in the ground.

Two reference marks were established. Reference mark No.1 is toward the waterway in high grass, 4 meters from the bay. Reference mark No.2 is 2 meters from the water's edge of the Bay. Both reference marks project about 6 inches above the surface of the ground.

OBJECT	DISTANCE	DIRECTION
LOG	meters	feet
R.M.No.1	34.20	112.2
R.M.No.2	25.07	82.3
		197 23 30

LOG (Onslow County, N.C., R.P.S., 1914)--Station is about 4 miles SW from New River Inlet, 25 yards inland from the main ridge of the banks, on the first high peak that breaks off from the ridge E of the fishing camp at Alligator Bay.

The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

LOG (Onslow County, N.C., R.P.S., 1914; K.T.A., 1926)--Station recovered as described.

LOG (Onslow County, N.C., R.P.S., 1914; A.P.R., 1932)--Station was found in good condition. It is located about 25 meters inland from main ridge of banks and on first high peak that breaks from the ridge E of Alligator Bay.

Station and reference marks are standard disks set in concrete in the center of the top of tile which are embedded in the ground.

Two reference marks were established. Reference mark No.1 is NE of station in hollow. Reference mark No.2 is in the direction of the Bay on knoll.

OBJECT	DISTANCE	DIRECTION
GRANT	meters	feet
R.M.No.1	24.11	79.2
R.M.No.2	50.74	166.5
		74 43 40
		301 07 45

UNITED STATES COAST AND GEODETIC SURVEY
Descriptions of Triangulation Stations

No. 476
Bogue Inlet to Wrightsville Inlet, North Carolina.

GRANT (Onslow County, N.C., C.D.M., 1932)--Station is on land belonging to Jim Grant, 2.15 miles from Sneads Ferry post office, 5.4 miles from Folkstone on United States Route 17, in small open area, 19.8 meters (65 feet) SE of center line of Route 301, 3.8 meters (12 feet) SE of diagonal dim cross road leading into woods, and 30.5 meters (100 feet) SW of center line of intersection of Route 301 and cross road. Surface, underground, and reference marks are standard disks set in concrete, as described in notes 1a, 7a, and 11a. Reference mark No.1 is in NE angle between Route 301 and dim cross road, 2.0 meters (7 feet) SE of center line of road, 7.9 meters (26 feet) N of center line of Route 301, and 152.55 feet from station in azimuth 186°28'. No.2 is at SE corner of barn where lane terminates at farmyard, about 29 meters (95 feet) E of road, about 40 meters (131 feet) SE of farmhouse, and approximately 0.3 mile from station in azimuth 180°36'24". No.3 is 72.2 meters (237 feet) W of center line of intersection of Route 301 and cross road, 7.6 meters (25 feet) N of center line of Route 301, and 182.7 feet from station in azimuth 74°30'.

GROVE (Onslow County, N.C., R.P.S., 1914)--Station is about 1/2 mile W from the W shore of Alligator Bay, on the N side of a pine grove, about 300 yards from the woods on the mainland or about 25 yards N of a small pond in the middle of the grove. The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. The reference mark is a tile filled with, and set in cement. It is 16.1 meters (53 feet) from the station in azimuth about 335°30'. There is a large pine, blazed on the two sides toward the station and reference mark, and about 5 meters (16 feet) S of the station.

GROVE (Onslow County, N.C., R.P.S., 1914; J.A.B., 1933)--Station was recovered in good condition. Station is about 1/2 mile W from the W shore of Alligator Bay, in the center of the N side of the largest group of pine trees, about 300 yards SE from the mainland, and 500 yards NW from the Intracoastal Waterway, 5 yards inside tree line on firm ground. Several small trees have been cut around station, and there is a large blazed pine tree 5 yards S of the station. The reference mark could not be found.

MUSH (Onslow County, N.C., R.P.S., 1914)--Station is on the banks, about S of a muddy place in the channel extending from the SW end of Alligator Bay, known as the "Mush Pots." The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

MUSH (Onslow County, N.C., R.P.S., 1914; K.T.A., 1926)--Station recovered as described.

MUSH (Onslow County, N.C., R.P.S., 1914; J.A.B., 1933)--Station recovered. Station is on the banks about S of a muddy place in the channel SW of Alligator Bay, known as the "Mush Pots." Azimuth to Beacon Fl. "5" N. 35° E. mag. Station is in good condition, and marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c.

GOOSE BAY (Onslow County, N.C., R.P.S., 1914)--Station is about 1 1/2 miles NE of the mouth of Turkey Creek, 2 yards from the W shore of Goose Bay, about 25 yards N of the point where a small ditch empties into the bay. The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

GOOSE BAY (Onslow County, N.C., R.P.S., 1914; J.A.B., 1933)--Station was recovered in good condition. The station is 1 1/2 miles NE of the mouth of Turkey Creek, 1 yard from the W side of Goose Bay, 25 yards N of where a small ditch runs W from the bay, and 200 yards SW of a fence running at right angles to shore of bay.

CRAB (Onslow County, N.C., R.P.S., 1914)--Station is about 6 1/2 miles SW from New River Inlet, on the banks, about 400 yards from Grant's summer house. The station is marked by a standard bronze disk set in concrete in the top of a tile, according to note 6c. There are no reference marks.

CRAB (Onslow County, N.C., R.P.S., 1914; K.T.A., 1926)--Station recovered as described. It is partially washed out.

CRAB (Onslow County, N.C., R.P.S., 1914; J.A.B., 1933)--Station recovered. Station is 6 1/2 miles S of New River on the main ridge of sand dunes, 175 yards N (along beach) of a fence that runs at right angles to beach. Station is in good condition, but projects 15 inches above the surface of the sand.

HOBBS (Onslow County, N.C., R.P.S., 1914)--Station is about 1/2 mile E of the mouth of Turkey Creek, on Turkey Point, 4 yards E of the road at a point about 5 yards S of the woods line. The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. The reference mark is a tile filled with and set in cement. It is about 70 paces from the station, 20 yards from high-water mark, and 2 yards from the NE corner of a shell mill.

HOBBS (Onslow County, N.C., R.P.S., 1914; K.T.A., 1927)--Station marked, recovered in good condition. Reference mark broken off 3 inches above ground. Original description correct.

ROGER (Onslow County, N.C., R.P.S., 1914)--Station is about 3/4 mile E of the mouth of Turkey Creek, on a ridge on the beach about 1/2 mile S of Rogers Bay.

The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

ROGER (Onslow County, N.C., R.P.S., 1914; K.T.A., 1926)--Station not recovered, probably buried by shifting sands.

ROGER (Onslow County, N.C., R.P.S., 1914; J.A.B., 1933)--Station could not be found after a detailed search. There are shifting sand dunes in this vicinity.

ROUGH (Onslow County, N.C., R.P.S., 1914)--This station is about S of the western end of Ashe's Island, on a ridge of the banks about 100 yards W of an old fishing camp. The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

ROUGH (Onslow County, N.C., R.P.S., 1914; K.T.A., 1926)--Not recovered probably buried by shifting sands.

ROUGH (Onslow County, N.C., R.P.S., 1914; J.A.B., 1933)--The station could not be found, after a detailed search. There are shifting sand dunes in this vicinity.

KING (Onslow County, N.C., R.P.S., 1914)--This station is at the W end of Spicer's Bay on the second small point E of Kings Creek. The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

KING (Onslow County, N.C., R.P.S., 1914; J.A.B., 1933)--Station recovered. The top was broken off but enough remained so that the position of disk could be determined. A new disk was cemented in place.

Station is on the second small point east of King's Creek at the W end of Spicer's Bay, 250 yards NW of Beacon "13", and 2 yards from the edge of the bank.

SQUALL (Onslow County, N.C., R.P.S., 1914)--This station is about 1/2 mile SW of Kings Creek, 1/4 mile NE of Mollis Island 2 yards from the edge of the water. The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

SQUALL (Onslow County, N.C., R.P.S., 1914; J.A.B., 1933)--Station was recovered in good condition. It is about 1/2 mile SW of King's Creek, at the edge of a spalls bank at the high-water line, and directly opposite Beacon "17."

STUMP (Onslow County, N.C., R.P.S., 1914)--This station is almost directly S of the middle point of Permuda's Island, 1 1/2 miles SW from the W end of Ashe's Island, on the banks. The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

STUMP (Onslow County, N.C., R.P.S., 1914; K.T.A., 1926)--Not recovered, probably buried by shifting sands.

STUMP (Onslow County, N.C., R.P.S., 1914; J.A.B., 1933)--Station could not be found. The single steep line of dunes along the beach in this vicinity appear to be eroding and shifting.

FED (Pender County, N.C., J.A.B., 1933)--This station is located on the sand dune ridge 8 miles S of New River Inlet, about opposite the northern half of Permuda Island, 75 yards N of a fence running at right angles to beach 1/2 mile S of fishing shack in ridge of dunes. The ridge of dunes in this vicinity is rather even in height.

Station and reference marks are standard disks set in concrete at the center of the top of tile which are embedded in the ground. The marks set in 8-inch tile which project 1 foot above the surface.

Reference mark No.1 is on the main ridge of dunes S of the station. Reference mark No.2 is on a low knoll inland.

OBJECT	DISTANCE	DIRECTION
BANKS	meters	0° 00' 00" 0
R.M.No.1	11.467	3 25 32
R.M.No.2	29.13	130 35 01

Height of signal above station mark - 12 feet.
Height of telescope above station mark - 1 1/2 meters.

BETHEA (Onslow County, N.C., C.D.M., 1932)--Station is 2 3/4 miles SE of Hollyridge, 80 yards from Hollyridge (on Route 17), go 0.25 mile on road from S side of Hollyridge service station which leads to Bethea Landing, keep main road to left at forks, proceed 1.05 miles, take left-hand fork, continue 0.15 mile, keep straight ahead beyond school 0.25 mile, take right fork, and proceed on main-traveled road 1.3 miles to station. Station is near fence line, 6.0 meters (20 feet) N of road leading towards station, about 65 meters (213 feet) SW of R.H. Bethea's house, 9.4 meters (31 feet) W of 36-inch live oak, and 11.2 meters (37 feet) S of S face of most westerly of farm buildings. Surface, underground, and reference marks are standard disks set in concrete, as described in notes 1a, 7a, and 11a. Reference mark No.1 is in old orchard, 12.8 meters (42 feet) NW of 12-inch magnolia tree, 12.5 meters (41 feet) N of NW corner of fence around house, and 170.3 feet from station in azimuth 225°42'. No.2 is in open field, 13 meters (43 feet) NE of road leading to station, and 140.2 feet

(Continued on p.12)

BETHEA (Continued)

from station in azimuth 106°00'. No. 3 is 1 foot E of N and S wire fence, about 5 meters (16 feet) W of dirt road at bend, about 75 meters (246 feet) S of tobacco house on W side of road, and approximately 0.2 mile from station in azimuth 112°53'34".

BARLOW (Onslow County, N.C., R.P.S., 1914)--This station is about 3/4 mile E from the mouth of Barlow's Creek, on a small point nearly opposite entrance to Cedar Snag Channel. The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

BARLOW (Onslow County, N.C., R.P.S., 1914; J.A.B., 1933)--This station was recovered in good condition. Station is about 3/4 mile NE from the mouth of Barlow Creek, on a small point N of Cedar Snag Channel, 500 yards W of Beacon "21", and 2 yards from the edge of the bank.

SPY (Onslow County, N.C., R.P.S., 1914)--This station is about midway between New Topsail and New River Inlets, or 1 1/2 miles SE from mouth of Barlow's Creek on the banks about 1/4 mile E of the point at junction of Cedar Snag Channel and Banks Channel. The station is marked by a standard bronze disk set in concrete in the top of a tile, according to note 6c. There are no reference marks.

SPY (Onslow County, N.C., R.P.S., 1914; K.T.A., 1926)--This station not recovered probably buried by shifting sands.

SPY (Onslow County, N.C., R.P.S., 1914; J.A.B., 1933)--Station could not be found. The single steep line of dunes along the beach in this vicinity appear to be eroding and shifting.

BANKS (Pender County, N.C., J.A.B., 1933)--This station is on the sand dunes 9 1/2 miles SW of New River Inlet, 3/4 mile S of the southwestern end of Permuta Island, 1/4 mile E of a sharp bend in Banks Channel, on the highest and most easterly of a group of dunes behind the main ridge along the beach, 100 yards from the beach line, 1/4 mile NE of a fishing shack along beach. This sand dune is very conspicuous from the beach for a mile on either side. Station and reference marks are standard disks set in concrete at the center of the top of a tile which is embedded in the ground. The marks are both set in 8-inch tiles and project 8 inches above the surface of the ground.

The reference mark is on a nearby high dune.

OBJECT	DISTANCE	DIRECTION
BARLOW	meters	0° 00' 00" 0
R.M.No.1	10.500	30 52 50

Height of signal above station mark 4 meters.

HORSESHOE (Pender County, N.C., R.P.S., 1914)--This station is on the banks, SE from the E end of Waters Bay, on a small sand hill S of the Horseshoe Channel, on the W bank of Old Stump Inlet. The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c. There are no reference marks.

HORSESHOE (Pender County, N.C., R.P.S., 1914; K.T.A., 1926)--Station recovered as described.

HORSESHOE (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station could not be found. Stakes of an old signal were found in the vicinity, but considerable digging did not reveal any other traces of the station.

HIGH (Pender County, N.C., J.A.B., 1933)--This station is on the sand dunes, 7 1/2 miles N of New Topsail Inlet 1 1/2 miles S of the southern end of Permuta Island, 1/2 mile SW of the southern end of Banks Channel. The dunes in this vicinity are very even in height, and there is only one row along the beach. The station and reference marks are on the top of the ridge. Station and reference marks are standard disks set in concrete at the center of the top of a tile which is embedded in the ground. The marks are set in 8-inch tile and project 8 inches above the surface of the ground.

OBJECT	DISTANCE	DIRECTION
BARLOW	meters	0° 00' 00" 0
R.M.	18.380	54 55 25

Height of signal above station mark 4 meters.

WATER (Pender County, N.C., R.P.S., 1914)--Station is about 1/2 mile SW from the mouth of Barlow Creek, about NE of Batson's Island, on the marsh just E of an old landing, about 2 yards from the water.

The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c. There are no reference marks.

WATER (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station could not be found after a detailed search. The shore line has eroded considerably at this point and the station is evidently lost.

MIK (Pender County, N.C., J.A.B., 1933)--Station is on the mainland about 1/2 mile SW of Barlow Creek, 1/4 mile W of Beacon 25. Station is at the edge of the fast land, about at high-water line.

Station and reference marks are standard bronze disks set in concrete at the center of the top of tile, as described in notes 6a and 13a.

Reference mark is set in an 8-inch tile E of station.

OBJECT	DISTANCE	DIRECTION
BARLOW	meters	0° 00' 00" 0
R.M.No.1	24.748	287 08 25

BAT (Pender County, N.C., R.P.S., 1914)--Station is on the NW shore of Water's Bay, on a small shell ridge on the mainland, opposite Batson Island.

The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c. There are no reference marks.

BAT (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station could not be found after clearing the point and considerable digging.

GANAT (Pender County, N.C., R.P.S., 1914)--Station is about 7 miles NE from New Topsail Inlet, on the main ridge of the banks opposite Sears Landing. The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c. Station is best reached from the creek leading E from Bluff Bay.

GANAT (Pender County, N.C., R.P.S., 1914; K.T.A., 1926)--Station not recovered. Probably buried by shifting sands.

GANAT (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station was found with the top of the drain tile broken off. The broken parts were fitted together, the center re-established and the station re-marked with a standard bronze disk set in a mounded mass of concrete.

LACEY (Pender County, N.C., R.P.S., 1914)--Station was a signal pole erected back in woods about 700 meters N of Sear's Landing. Station not marked.

LACEY (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--No description available. No trace of station was found after a careful search in that vicinity.

BECK (Pender County, N.C., R.P.S., 1914)--Station is on the second point of marsh about 500 yards W of entrance to Bishop Creek, about 100 yards E of a small hammock of oaks, and 2 yards from high-water mark. The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c. There are no reference marks.

BECK (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station was found as described in good condition. Description is adequate.

BLUFF (Pender County, N.C., R.P.S., 1914)--Station is located at the NE end of Topsail Sound, nearly opposite Bishop Creek, about 100 yards from the N corner of the woods known as Topsail Bluffs, on the marsh about 2 yards from high-water mark. The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c. There are no reference marks.

BLUFF (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station was recovered and was in good condition. At the SE side of Topsail Sound, about opposite Bishop Creek, about 100 yards from the N corner of the woods known as Topsail Bluff, on the marsh at about high water, and 4 yards from low water.

BEE (Pender County, N.C., R.P.S., 1914)--Station is on the marsh on the inland side of the banks, nearly opposite Virginia Creek, 3 yards from high-water mark.

The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c. The reference mark is a tile filled with and set in cement, it is about 20 meters (66 feet) from the station, just in the woods, 2 yards E of a blazed cedar tree.

BEE (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station was recovered and was in poor condition. The top of the tile including the disk was broken off and was found lying beside the mark; this was fitted back on and a concrete mound was built around it. The station is on marshland that is covered at high water. It is on the sound side of the banks and the thick underbrush about opposite from Virginia Creek, and about 28 meters from the edge of the woods. The reference mark was found with the top broken off leaving a tile stub.

The distance from the station to the mark is approximately 28 meters instead of 20, as stated in the description. The cedar tree mentioned in the description has blown over.

VIRGINIA (Pender County, N.C., R.P.S., 1914)--Station is on the point of a shell rock island at the mouth of Virginia Creek. The station is marked by a 4- by 4-inch stake driven in the ground with a copper tack for a center mark.

BUMBLE (Pender County, N.C., R.P.S., 1914)--Station is on the inland side of the banks, opposite Virginia Creek, about 150 yards from Yellow Hill Fishing Camp, on the marsh at the curve of the channel from Sloop Point to the banks, about 2 yards from ordinary high-water mark but under water at extreme high tide.

The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c. The reference mark is a tile filled with and set in cement. It is about 30 meters (98 feet) from the station, about 150 yards from the house at the camp, and about 3 yards from high-water mark.

BUMBLE (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station was recovered in good condition. At the back side of the banks, opposite Virginia Creek, on the marsh, about 150 yards from the remains of Yellow Hill Fishing Camp, and 1 yard inside high-water line. The channel from Sloop Point to the banks passes by station which is 150 yards N of bend in channel. The reference mark is in good condition.

UNITED STATES COAST AND GEODETIC SURVEY
 Description of Triangulation Stations

 No. 476
 Bogue Inlet to Wrightsville Inlet, North Carolina.

FACTORY (Pender County, N.C., R.P.S., 1914)--Station is about 1/2 mile SW of entrance to Virginia Creek, on the first point E of the Atkinson's factory, at about high-water mark.
 The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c.
 The reference mark is a tile filled with and set in cement. It is 10 meters (33 feet) from the station in line with the S end of the factory.

FACTORY (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station was recovered in good condition.
 Station is on the mainland, 1/2 mile SW of Virginia Creek, 200 yards SW of Beacon 20, in an open dredge filled place, 75 yards NW from channel, 15 yards from high-water mark, and around station there are a few bushes and some short grass. Atkinson's factory, mentioned in the description, is not apparent but there is a dwelling in that vicinity.
 The reference mark is leaning over and a new distance and azimuth was taken to it. It is 16.213 meters distant from station, in azimuth $48^{\circ}37'14''$ true.

OAK (Pender County, N.C., R.P.S., 1914)--Station is about 3 miles NE from New Topsail Inlet, on the inland side of the banks, just above high-water mark, nearly S of the E end of the first island W of BUMBLE, about 5 yards N of two blazed oak trees.
 The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c.
 There are no reference marks.

OAK (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station is probably lost. Two blazed oak trees mentioned in description were found. Station is supposed to be but 5 yards from the blazed trees but no trace of it could be found.

ATKINSON (Pender County, N.C., R.P.S., 1914; 1933)--Station is on back side of Topsail Sound, about 5 miles NE of Hampstead, about 3/4 mile SE of Virginia Creek, at Dick Jones Landing, and about 10 yards from high-water mark. To reach from Hampstead, go NE 5 miles on United States Route 17 to Woodsie (Vista post office), turn onto road leading SE off main highway opposite railroad station, continue 0.5 mile, keep main road ahead at dim right fork, continue 0.65 mile to tumbledown building, keep main road at dim right fork, proceed one-fourth mile, take left fork on left side of fence about 250 feet beyond large house on left, follow along fence 0.45 mile to left fork at end of field, and follow this road 0.7 mile to landing. Station, established in 1914, was marked with standard bronze disk set in concrete in the top of a tile, as described in note 6c. It was re-marked in 1932 in exactly same position with standard bronze disks set in concrete, as described in notes 1a and 7a. New marks were stamped "ATKINSON 1914-1932." Reference mark, established in 1914, is tile filled with and set in cement, on edge of woods, and 45.77 feet from station in azimuth $97^{\circ}39'$. It was found to be in poor condition in 1932. Three reference marks, standard reference bronze disks set in concrete, as described in note 1a, were established in 1932; disks stamped "ATKINSON 1932." No. 2 is 88.15 feet from station in azimuth $88^{\circ}22'$. No. 3 is 4 meters (13 feet) W of center line of sandy road, and approximately 0.2 mile from station in azimuth $134^{\circ}45'00''$. No. 4 is 98.5 feet from station in azimuth $168^{\circ}55'$.

BLAKE (Pender County, N.C., R.P.S., 1914)--Station is on the inland side of the banks, about 2 1/4 miles NE from New Topsail Inlet, on the main point about 650 yards W of the fishing camp, about 60 yards from the woods, at about high-water mark.
 The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c.
 There are no reference marks.

BLAKE (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station could not be found after reasonable search and is most likely lost.

ALEXANDER (Pender County, N.C., R.P.S., 1914)--Station is located at the inland shore of Topsail Sound, about 2 1/2 miles north-easterly from New Topsail Inlet, on a point about 120 yards E of Alexander's Landing, about at high-water mark.
 The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c.
 There is a blazed oak tree about 10 yards W of the station.

ALEXANDER (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station was found and in good condition. Description is adequate.

NIX (Pender County, N.C., R.P.S., 1914)--Station is about 1 1/2 miles nearly N from New Topsail Inlet, about 550 yards NW of J.E. Nixon's Landing, on the marsh about 200 yards from the woods.
 The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c.
 There are no reference marks.

NIX (Pender County, N.C., R.P.S., 1914; N.C. Geod. S., 1927)--Station recovered in good condition. Description is adequate.

NIX (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station was found but mark was leaning at a slight angle. It is located about 1 1/4 miles nearly N from New Topsail Inlet, in marsh about 20 meters SE of dredged cut.

PORPOISE (Pender County, N.C., R.P.S., 1914)--Station is about 1 mile NE from New Topsail Inlet, on the banks, on a sand hill about 200 yards from Sibery Fishing Camp, and about midway between the beach and the sound.
 The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c.
 There are no reference marks.

PORPOISE (Pender County, N.C., R.P.S., 1914; K.T.A., 1926)--Station mark has been washed out by wind and rain action. However, parts of the three legs of the old tripod were still in place so station could be tied to within a foot. Probably all trace of this station will be gone within a year.

PORPOISE (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station could not be found after thorough search and is probably lost.

SAIL (Pender County, N.C., R.P.S., 1914)--Station is on the inner shore of Topsail Sound, about 1 1/4 miles NW from New Topsail Inlet, about 1/4 mile W of Holmes Landing, 10 yards from the line of trees, at about high-water mark.
 The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c.
 There are no reference marks.

TOP (Pender County, N.C., R.P.S., 1914)--Station is on the first high hill on the W side of New Topsail Inlet, about 5 yards from an old pump on the beach.
 The station is a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c.
 There are no reference marks.

TOP (Pender County, N.C., R.P.S., 1914; K.T.A., 1926)--Station is lost. The location of the station is now underwater due to erosion of the shore line.

TOP (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station could not be found after thorough search. The topography in the vicinity has changed considerably and the station is most likely lost.

BRITT (Pender County, N.C., J.A.B., 1933)--Station is on a prominent sand dune on the outside coast at the S side of the entrance to New Topsail Inlet. This is the highest dune in the vicinity, and station is at about the center of the highest part.
 Station and reference marks are standard bronze disks set in concrete at the center of the top of a tile, as described in notes 6a and 13a.
 Reference marks are set in an 8-inch tile projecting about 8 inches above ground.

OBJECT	DISTANCE	DIRECTION
WOW	meters	$0^{\circ}00'00''$
R.M.No.1	12.125	$188^{\circ}58'59''$
R.M.No.2	38.48	$66^{\circ}03'23''$

POPE (Pender County, N.C., R.P.S., 1914)--Station is located at the mouth of old Topsail Creek, about 100 yards W of Pope's Landing, at about high-water mark.

The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c.
 The reference mark is a tile filled with and set in cement; it is about 15 meters (49 feet) from the station on a line to NIX.
 There is a blazed tree just back of the station.

POPE (Pender County, N.C., R.P.S., 1914; N.C. Geod. S., 1925)--Station recovered in good condition. Description is adequate.

POPE (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station is about 300 yards SW of the mouth of old Topsail Creek, and 300 yards NE of an old landing 3 yards in front of a 12-inch cedar tree which is in a hedgerow of other small trees and bushes parallel to the beach. Station is 2 yards NW of high-water line.
 Station mark was recovered in good condition. The top of the reference mark was found broken off, was replaced and cemented around.

HAMPSTEAD (Pender County, N.C., C.D.M., 1932)--Station is about 19 miles by Route 17 NE of Wilmington, on grounds of Topsail High School which is large brick building on S side of highway, in SE corner of schoolyard, approximately 30 meters (98 feet) SE of SE corner of school building, and 6 meters (20 feet) E of E end of long metal garage. Surface, underground, and reference marks are standard bronze disks set in concrete, as described in notes 1a, 7a, and 11a. Reference mark No. 1 is on S side of Route 17, 10 meters (33 feet) S of center line of road, 3 meters (10 feet) S of ditch on S side of road, and approximately 1/4 mile from station in azimuth $203^{\circ}24'41''$. Reference mark No. 2 is just S of basketball field E of school, and 56.05 meters (183.9 feet) from station in azimuth $212^{\circ}30'$. Reference mark No. 3 is at SW corner of school building, 0.3 meter (1 foot) S of S wall, 1 meter (3 feet) E of W wall, and 39.56 meters (129.8 feet) from station in azimuth $83^{\circ}48'$.

OLD (Pender County, N.C., R.P.S., 1914)--Station is about 1/2 mile E of old Topsail Inlet, and about 200 yards N of an old fishing camp.
 The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c.
 There are no reference marks.

OLD (Pender County, N.C., R.P.S., 1914; K.T.A., 1926)--Station is lost. The location of the station is now underwater due to erosion of shore line.

OLD (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station could not be found after thorough search and is probably lost.

COUNCIL (Pender County, N.C., R.P.S., 1914)--Station is about 1 3/4 miles NW from old Topsail Inlet, about 150 yards E of the creek E of Long Point, 2 yards from high-water mark.
 The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 6c.
 (Continued on p.14)

COUNCIL (Continued)

The reference mark is a tile filled with and set in cement, about 10 meters (33 feet) E of the station in azimuth 232°52'.

COUNCIL (Pender County, N.C., R.P.S., 1914; N.C. Geod. S., 1927)--Station recovered as described. Description is adequate.

COUNCIL (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station is about 1 3/4 miles WNW of old Topsail Inlet, about 300 yards NE of a creek that is N of Long Point, and about 200 yards NE of a small private pier and 2 yards inshore from high-water line.

The station and reference marks were found marked as described in good condition.

WOW (Pender County, N.C., R.P.S., 1914; N.C. Geod. S., 1927)--Station is about 3/4 mile SW from old Topsail Inlet, on the ridge of the banks, just E of a point opposite the entrance to Mill Creek.

The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 60. There are no reference marks.

WOW (Pender County, N.C., R.P.S., 1914; N.C. Geod. S., 1925)--Station recovered in good condition. At station WOW, COUNCIL to chimney of Hutaff Fishing Hut, 729°40", distance scales 1250 feet. Hut is about 8 by 10 feet and has a good brick chimney. Hut is located about 300 yards S of high-water mark of old Topsail Inlet. (Locally known as Elmore Inlet.)

WOW (Pender County, N.C., R.P.S., 1914; K.T.A., 1926)--Station recovered as described.

WOW (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station was found and in good shape. It is about 3/4 mile SW from old Topsail Inlet on the ridge of the banks just E of where Mill Creek leaves the banks, about 300 yards E of cottage on sand ridge at head of Mill Creek, on highest sand bank of ridge overlooking ocean, about 200 yards from ocean and 300 yards from sound.

LONG POINT 2 (Pender County, N.C., R.P.S., 1914)--Station is about 1 3/4 miles W from old Topsail Inlet, on Long Point, about 10 yards E of a house and 10 yards from high-water mark. The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 60.

The reference mark located near the high-water line is a tile filled with and set in cement, 21.2 meters (69.6 feet) from the station towards the landing. The first oak tree N of the landing is blazed and is about 3 yards from the reference mark.

LONG POINT 2 (Pender County, N.C., R.P.S., 1914; N.C. Geod. S., 1927)--Station recovered as described. Description is adequate. Station is on the property owned by J.S. King. Station is on the SW side of road leading to landing and about 15 feet away, also about 60 feet NW of a two-story garage. There is also a small house about SW approximately 60 feet from station.

LONG POINT 2 (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station recovered in good condition. The top of the reference mark was found broken off. It was recapped and a new bronze disk inserted. The station is 25 yards NW of high-water line near the brush covered center of the point and 5 yards SW of an almost overgrown road.

The reference mark described is 4 yards NE of a large leaning and rotting oak tree and is SW of the landing at about high-water mark and 21.7 meters SE of the station mark. There is an old house at the landing 20 yards E of the station and an old shack 10 yards W of the station.

SID (Pender County, N.C., R.P.S., 1914)--Station is on the banks on the first sand hill E of Sidbury Inlet. The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 60. There are no reference marks.

SID (Pender County, N.C., R.P.S., 1914; K.T.A., 1926)--Station recovered. Station mark has been washed out by wind and rain action and moved several meters from old position. Station will be of no value in the future.

SID (Pender County, N.C., R.P.S., 1914; N.C. Geod. S., 1925)--The hill this station was on has blown away, and station had fallen over.

SID (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Sidbury Inlet is no longer in existence. Traces of it remain but it has completely filled in. Station was not found and it is most likely lost as there is evidence of considerable changing of the topography in the vicinity.

BURRO (Pender County, N.C., R.P.S., 1914)--Station is on the second point SW of Long Point, on a hill near the ruins of an old house. The surface mark is a standard disk set in concrete at the center of the top of a tile, as described in note 60. Underground mark is set according to note 10d.

The reference mark is a tile filled with and set in cement near the high-water mark, about 50 meters (164 feet) from the station. There are two large blazed pine trees about 5 yards from the reference mark.

BURRO (Pender County, N.C., R.P.S., 1914; N.C. Geod. S., 1925)--Station recovered as described. Cement and pipe broken up and scattered around. This station located in woods, and would have required quite a little cutting for me to use it, so I didn't go to any trouble to locate underground station.

BURRO (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station and reference marks were recovered but on both marks the tile containing the disk had been broken off flush with the concrete block in which it was embedded. The station is on a hill in the woods, about 50 meters from the shore line and in the middle of a road. Ruins of an old house mentioned in the description could not be found.

ORTON (Pender County, N.C., R.P.S., 1933)--Station is on the mainland, 1 1/2 miles N of Rich Inlet, on the second point SW of Long Point, 250 yards N of Bear Inlet, on a shelly, open space, 75 yards from tree line and fast sand, 50 yards from channel of Intraoceanal Waterway, 125 yards SW of shack in woods.

Station and reference marks are standard bronze disks set in concrete at the center of the top of a tile, as described in notes 6a and 13a.

Reference mark is at edge of woods 3 yards from high-water line. Both marks are set in 8-inch tile, and project 8 inches above surface of ground.

OBJECT	DISTANCE	DIRECTION
MALLORY		0° 00' 00" 0
R.M.No.1	70.397	142 44 28

It is uncertain whether the distance measured are in meters or feet.

Height of signal above station mark - 3 meters.

Height of telescope above station mark - 1.5 meters.

EDEN (Pender County, N.C., R.P.S., 1914)--Station is about 1 3/4 miles a little N of W from Sidbury Inlet, on the first point E of Huggin's Landing, near the high-water line.

The station is marked by a standard bronze disk set in concrete at the center of the top of a tile, as described in note 60. The reference mark is a tile filled with and set in cement, near the high-water mark, about 8 meters (26.2 feet) E of the station.

EDEN (Pender County, N.C., R.P.S., 1914; N.C. Geod. S., 1927)--Station recovered with concrete and pipe in good condition. Some-one has removed bronze cap. This station is about E approximately 150 feet from a long house on top of a bluff at Huggin's Landing.

EDEN (Pender County, N.C., R.P.S., 1914; J.A.B., 1933)--Station recovered with only one mark found, the top of the tile of which is broken off. From the description and topography this is thought to be the reference mark. The point is on the E side of an old deserted landing and is 1 1/2 miles NW of Rich Inlet.

RICH (Pender County, N.C., C.L.G., 1914)--This station is on top of the highest hill on the extreme point to the NE of Rich Inlet.

The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 60.

There are no reference marks.

RICH (Pender County, N.C., C.L.G., 1914; K.T.A., 1926)--Station not recovered. Old position of station mark now under water at high tide.

RICH (Pender County, N.C., C.L.G., 1914; J.A.B., 1933)--Thorough search was made for this station but it was not found. The sand is loose and shifting and there has been considerable washing, and it is quite unlikely that the station will ever be found.

MALLORY (Pender County, N.C., J.A.B., 1933)--This station is 500 yards NE of Rich Inlet, on the first group of high dunes N of inlet, 200 yards from beach line, and 50 yards E of high-water line of Green Channel.

Station and reference marks are standard bronze disks set in concrete at the center of the top of tile which are embedded in the ground, as described in notes 6a and 13a. Both marks are set in 8-inch tile, and project 8 inches above surface of the ground.

Reference mark is on a dune of the same height as the station mark.

OBJECT	DISTANCE	DIRECTION
LONG POINT 2		0° 00' 00" 0
R.M.No.1	17.650	230 32 41

Height of signal above station mark - 4 meters.

Height of telescope above station mark - 1.5 meters.

BALD (New Hanover County, N.C., C.L.G., 1914)--This station is near the inland shore of Topsail Sound, westerly from Rich Inlet, about 300 yards W from Bald Eagle Creek, 2 yards from the edge of the marsh on the S side of the channel at the point where it turns to the SE and runs almost directly out to Rich Inlet.

The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 60. There are no reference marks.

BALD (New Hanover County, N.C., C.L.G., 1914; J.A.B., 1933)--This station is lost. It was apparently out by the dredge as it plots in the new dredged channel on the current topographic sheet.

U.S.E 100 (Pender County, N.C.,)--This is a U.S.E. Base Line Monument included in the third order scheme. Station is located at Baldeagle Point.

FOEY (New Hanover County, N.C., C.L.G., 1914)--This station is on the banks on the ocean side of Topsail Sound, about 1 1/2 miles SW from Rich Inlet, on the top of the highest hill to the S of the first woods W of the Inlet.

The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 60. There are no reference marks.

FOEY (New Hanover County, N.C., C.L.G., 1914; K.T.A., 1926)--This station not recovered, and station mark obliterated by shifting sands and storm waters.

FOEY (New Hanover County, N.C., C.L.G., 1914; J.A.B., 1933)--Search was made for this station but it was not found. Because of the shifting nature of the sand dunes, it is probably lost.

DEALE (New Hanover County, N.C., J.A.B., 1933)--This station is 800 yards S of Rich Inlet, on the outermost of a group of sand

(Continued on p.15)

UNITED STATES COAST AND GEODETIC SURVEY
 Descriptions of Triangulation Stations

 No. 476
 Bogue Inlet to Wrightsville Inlet, North Carolina.

DEALE (Continued)

dunes 200 yards back from the beach, 150 yards from the marsh, 600 yards, NE of a long group of trees paralleling the beach, and 150 yards N of a fishing shack on the beach. There are no high dunes between station and the beach.

Station and reference marks are standard disks set in concrete at the center of the top of tile which are embedded in the ground, as described in notes 6a and 13a. Marks are set in 8-inch tiles and project 8 inches above the surface of the ground.

OBJECT	DISTANCE	DIRECTION
ORTON	meters feet	0°00'00"0
R.M.No.1	21.815 71.58	34 49 01

Height of signal above station mark - 4 meters.
 Height of telescope above station mark - 1 1/2 meters.

PORTER (New Hanover County, N.C., C.L.G., 1914)--This station is about 2 1/2 miles westerly from Rich Inlet, on the inland side of Topsail Sound, about 400 yards E from a small creek leading up into the mainland, 3 yards from the edge of the marsh on the S side of the channel. The creek is the first along the coast, NE of Page Creek.

The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c.

There are no reference marks.

PORTER (New Hanover County, N.C., C.L.G., 1914; W.M., 1931)--Station was not found. A short search only was made, but U.S. Engineers also have failed to find mark and it is believed to be lost. There are insufficient references to fixed objects to justify digging.

PORTER (New Hanover County, N.C., C.L.G., 1914; J.A.B., 1933)--The station was found as described in good condition. The station is on the marsh between the new dredged cut and the old channel near the edge of the old channel, about 40 yards WNW of Beacon "10."

CACTUS (New Hanover County, N.C., C.L.G., 1914)--This station is about 2 1/4 miles SW from Rich Inlet, on the first sand hill up from the beach, not more than 20 or 30 yards from high-water mark.

The station is marked by a standard bronze disk set in concrete in the top of a tile, as described in note 6c.

There are no reference marks.

CACTUS (New Hanover County, N.C., C.L.G., 1914; K.T.A., 1926)--Not recovered. Station mark obliterated by shifting sands and storm waters.

CACTUS (New Hanover County, N.C., C.L.G., 1914; J.A.B., 1933)--Station was searched for but was not found. Description was very meager, and dense covering of underbrush over sand hills makes chances of recovery very remote.

MASON (New Hanover County, N.C., C.L.G., 1914; 1933)--Station is about 11 miles N of E of Wilmington, on point of land between Topsail Sound and Page Creek. To reach from Wilmington, go E 10 1/4 miles on United States Route 17 to Kirkland, turn right onto shell road at sign "Porter's Neck", follow this road 1 mile, take right fork 1.2 miles to another shell road turning squarely to right, and go 0.4 mile on this road to its end at bungalow and wharf. Station is on beach of Sound, about 1/4 mile S of end of road, on sharp projecting point, about 40 yards from end of point, and 25 yards from high-water mark. Surface mark is a standard bronze disk set in concrete in the top of a tile, as described in note 6b. Underground mark is set according to note 10d. In 1932, marks were stamped "MASON 1914-1932." Reference mark, established in 1914, is standard bronze disk set in concrete in the center of the top of a tile, as described in note 15b, and was also stamped "MASON 1914." It is on same strip of beach as station, and 17.40 meters (57.1 feet) from station in azimuth 37°08'. In 1932, standard reference disks set in concrete, as described in note 11a, were placed as follows: No.1 is on same strip of beach as station, and 42.34 meters (138.9 feet) from station in azimuth 201°41'. No.2 is approximately 30 meters (98 feet) SE of SE corner of bungalow, 30 meters (98 feet) N by W of edge of water, 10 meters (33 feet) NE of pier leading into water, 10 meters (33 feet) N of 3/4-inch live oak, and approximately 1/4 mile from station in azimuth 207°49'53". Azimuth from station to water tank at Wrightsville Beach is 22°43'54".

KIRKLAND (New Hanover County, N.C., C.D.M., 1932)--Station is 10 1/2 miles ENE of Wilmington, 5 1/2 miles SW of Hampstead, in NE corner of Kirkland schoolyard, 23.0 meters (76 feet) S of center line of Route 17, 13.28 meters (44 feet) E of NE corner of school building, and 12.56 meters (41 feet) E of SE corner of school building. To reach from Hampstead, go SW 5.6 miles on Route 17 to Kirkland School on SE side of highway. Surface, underground, and reference marks are standard bronze disks set in concrete, as described in notes 1a, 7a, and 11a. Reference mark No.1 is between highway and railroad track, 9.7 meters (32 feet) N of center line of highway, 30.2 meters (99 feet) NW of NW corner of school, and 183.85 feet from station in azimuth 78°11'. No.2 is between high and railroad track, 14.7 meters (48 feet) S of center line of railroad track, 12.4 meters (41 feet) N of center line of highway, 15.0 meters (49 feet) W of center line of road leading to church on N side of railroad track, and 147.9 feet from station in azimuth 172°58'. No.3 is between highway and railroad track, and approximately 0.25 mile from station in azimuth 217°16'49". No.4 is on Fender-New Hanover County line, in Mr. Smith's backyard, about 100 meters (328 feet) S of highway, and approximately 0.9 mile from station in azimuth 225°42'55".

FLY (New Hanover County, N.C., C.L.G., 1914)--This station is about 3 miles SW from Rich Inlet on a small hill about 100 yards from the first sand hill E of Queens Inlet, about midway between sea and sound.

The station is marked by a bronze disk set in concrete in the top of a tile, as described in note 6c.

There are no reference marks.

FLY (New Hanover County, N.C., C.L.G., 1914; N.C. Geod. S., 1923)--The inlet referred to in the description of this station is locally known as Mason's Inlet.

Station is in good condition.

FLY (New Hanover County, N.C., C.L.G., 1914; K.T.A., 1926)--Station recovered as described.

FLY (New Hanover County, N.C., C.L.G., 1914; J.A.B., 1933)--This station was recovered, and in good condition, and is about 3 miles SW from Rich Inlet, about 100 yards from first sand hill E of Queens Inlet, about 200 yards SW of peak of largest group of sand dunes in vicinity, and about midway between sea and sound.

HOWE (New Hanover County, N.C., C.L.G., 1914)--Station is about 3 1/2 miles NE from Wrightsville Inlet, on the inland side of Middle Sound, about 1 mile to the SW from Page's Creek, on a small shell point, about 3 yards from high-water mark. The shore at this point is backed by cleared land on which there are several houses.

The station mark is a bronze disk set in a concrete block, as described in note 1a. The block or post being supported on a stake driven in the ground.

There are no reference marks.

HOWE (New Hanover County, N.C., C.L.G., 1914; N.C. Geod. S., 1923)--Station found in good condition. Description is adequate.

HOWE (New Hanover County, N.C., C.L.G., 1914; K.T.A., 1927)--Station recovered and found in good condition. It is 4 yards from high-water line.

HOWE (New Hanover County, N.C., C.L.G., 1914; N.C. Geod. S., 1927)--Station in good condition. Station is on property owned by J.N. Cumming, and is about 200 feet NE of Corbett's Landing. A small branch enters sound just W of station.

HOWE (New Hanover County, N.C., C.L.G., 1914; J.A.B., 1933)--Station was found as described in good condition. Station is on a white shell point which covers only at extreme high-water.

Bearings to reference objects.

OBJECT	DISTANCE	AZIMUTH (TRUE)
S. gable of wharf house	270 meters	244°51'
Large oak near beach	45 meters	97 33
S. chimney nearest house		150 53
3-foot oak tree	77 meters	191 58

WILLETT (New Hanover County, N.C., C.L.G., 1914)--Station is about 3 1/4 miles NE from Wrightsville Inlet, on the summit of a small sand hill on the banks, on the E side of Queens Inlet, midway between the sea and the sound. It is on a bare sand hill of changing sand, and very probably will disappear in a short time.

The station is marked with a standard bronze disk set in concrete in the top of a tile, as described in note 6c.

There are no reference marks.

WILLETT (New Hanover County, N.C., C.L.G., 1914; K.T.A., 1926)--Station is lost. The location of the station is now in the water due to erosion around the inlet.

WILLETT (New Hanover County, N.C., C.L.G., 1914; J.A.B., 1933)--This station could not be found and is probably lost. The sand dunes are of a shifting nature and the sea has been making over the beach into the sound in numerous places.

MOORE (New Hanover County, N.C., C.L.G., 1914)--Station is about 2 1/4 miles, a little E of N from Wrightsville Inlet, on the inland side of Middle Sound on a small point of marsh on the S side of the channel opposite the NE entrance to Moore's Creek, about 2 yards from the water, at ordinary tides but covered at extreme high water, on the point formed by Moore's Creek and the Sound. There is a 2-story dwelling about NNW from the station.

The station mark is a standard bronze disk set in a concrete block, as described in note 1a. The block is supported on a stake driven in the ground. There are no reference marks.

MOORE (New Hanover County, N.C., C.L.G., 1914; N.C. Geod. S., 1923)--This station was under water when I occupied it, and could not examine it carefully, but do not think it will last very long as the marsh seems to be ending at this point.

The two-story house mentioned in the description has been destroyed by fire.

MOORE (New Hanover County, N.C., C.L.G., 1914; K.T.A., 1927)--Station was not recovered. It is probably covered with marsh grass, and could not be found after a reasonable search.

MOORE (New Hanover County, N.C., C.L.G., 1914; N.C. Geod. S., 1927)--Station is rather shaky. Have not seen this station on low water, but feel as if it is in fair condition for ordinary work. Station is S 50° E magnetic 287 feet (Stadia) from a concrete monument, marked "B", located near high-water mark on Howas Point. Concrete monument is R.A. Brand's, SW corner, and is about S, approximately 250 feet from his residence. The creek referred to as Moore Creek is known locally as Barren Inlet Creek.

MOORE (New Hanover County, N.C., C.L.G., 1914; J.A.B., 1933)--Station was recovered in good condition. The station is on marshland which covers at high-water, and is between the old channel and the new dredged channel. The steep point of fast land at the intersection of the old channel and the NW bank of Moore's Creek is about opposite the station across the old channel.

SEY (New Hanover County, N.C., C.L.G., 1914)--Station is about 2 miles NE from Wrightsville Inlet on the banks, on the first small sand hill W of the channel to the W of Queens Inlet, about 200 yards from the water.

The station is a standard bronze disk set in concrete in the top of a tile, as described in note 6c.

(Continued on p.16)

SHY (Continued)

There are no reference marks.
The sand here is changeable, and the station may not last long.

SHY (New Hanover County, N.C., C.L.G., 1911; K.T.A., 1926)--Station not recovered. Station mark probably covered by shifting sands.

SHY (New Hanover County, N.C., C.L.G., 1911; J.A.B., 1933)--This station has evidently been washed out as no traces of it could be found. The sand dunes in the vicinity have been leveled by the sea making in over the beach to the sound.

LOW (New Hanover County, J.A.B., 1933)--This station is about 2 miles NE from Wrightsville in a region where the sand dunes have been washed away. Station is on a low sand hill but the only one of any extent in the vicinity, and about 100 yards N of the southern extremity of the arm of a creek that extends directly across the marsh from the canal to sand beach, and then turns N to Queen Inlet.

Station is about 100 feet from Ocean high water and 150 feet from Sound high water.

Station and reference marks are standard bronze disks set in concrete in the top of tiles which are each surrounded by a mass of concrete.

OBJECT	DISTANCE	DIRECTION
MOORE	0° 00' 00.0	
R.M.	22.103	30 59 50

NEW KIRK (New Hanover County, N.C., C.L.G., 1911; 1918)--Station is on the inland side of Middle Sound about 1 1/2 miles a little W of N from Wrightsville Inlet, on a small shelly point at New Kirk Landing, about 15 yards from the road leading to Wrightsville, 5 yards from high-water mark. Several small boats are usually anchored at this landing.

The station and reference marks are standard bronze disks set in concrete blocks as described in notes la and 11a. The blocks being supported on stakes driven in the ground.

The reference mark is 25,770 meters (84,55 feet) from the station in azimuth, 215° 36'.
The water tank on the island N of Wrightsville Beach is in azimuth 1° 49' from the station.

NEW KIRK (New Hanover County, N.C., C.L.G., 1911; N.C. Geod. S., 1927)--Station is on property (winter estate) of Mrs. Harry Walters. Water tank on island N of Wrightsville Beach has been destroyed by fire.

Station and reference mark in good condition.

NEW KIRK (New Hanover County, N.C., C.L.G., 1911; K.T.A., 1927)--Station recovered and found in good condition. Station is 18 feet N, 48 feet W, and 60 feet S of the high-water line.

NEW KIRK (New Hanover County, C.L.G., 1911; J.A.B., 1933)--Station was recovered in good condition. It is on the mainland, 1 1/2 miles NW from Wrightsville Inlet, on a small shelly point at New Kirk Landing, about 15 yards from the road leading to Wrightsville, 2 yards from high-water mark, 30 yards from edge of marsh grass near back of bight on range with VILLE, and 500 yards N of Beacon "41."

A reference mark was placed on range with a spire on Wrightsville Beach. Mark is set in square block of concrete, projecting 6 inches above surface of the ground.

Distance to Reference mark is 7,185 meters, azimuth to Reference mark is 174° 57' 51" true.

WRIGHT (New Hanover County, N.C., C.L.G., 1911; 1918)--Station is 1 mile NE from Wrightsville Inlet on the banks, on the third grassy point E of the Inlet which runs out into the sound about normal to the banks. It is about 22 yards from the N end of the point.

The station mark is a standard bronze disk set in a concrete block as described in note 1a. The block being supported on a stake driven in the ground. Three 1- by 2-inch stakes were driven in the ground forming a triangle about the station.

The reference mark is a standard bronze disk set in concrete as described in note 11a. It is 20,115 meters (65,99 feet) from the station in azimuth 96° 16'.

WRIGHT (New Hanover County, N.C., C.L.G., 1911; K.T.A., 1926)--Station recovered as described with the following corrections:

Station is now about 1/3 mile N of Wrightsville Inlet and 85 meters W of the sand dunes that form high-water mark to the E.

WRIGHT (New Hanover County, N.C., C.L.G., 1911; J.A.B., 1933)--Station and reference marks were both found out of place. Both had been overturned, apparently by sea action, and station mark was broken off about six inches from the top. This station can no longer be used.

DUNE (New Hanover County, N.C., J.A.B., 1933)--Station is on sand ridge about 150 yards NE of Wrightsville Inlet, about 150 yards from ocean high water. About 200 yards from small creek on sound side, and near northern limit of wreckage of old boardwalk and houses.

Station and reference marks are standard disks set in concrete at the center of the top of tile which are embedded in the ground.

OBJECT	DISTANCE	DIRECTION
WRIGHTSVILLE (NW) BASE	meters	0° 00' 00.0
R.M. (Inclined)	26.632	35 48 50.0

VILLE (New Hanover County, N.C., C.L.G., 1918)--Station is on the inland side of Middle Sound about 1 1/4 miles NW of from Wrightsville Inlet, on a point of the mainland, 1 mile NE of Wrightsville, on the property of Pembroke Jones, 10 yards from the edge of bushes at high-water mark.

The station and reference marks are standard bronze disks set in concrete, as described in notes la and 11a.

The underground mark is a block of concrete containing a glass bottle with the neck projecting a little above the concrete.
The reference mark is about 9 yards E of an oak stump, 13.55 meters (44.46 feet) from the station in azimuth 52° 28'.

VILLE (New Hanover County, N.C., C.L.G., 1918; K.T.A., 1927)--Station recovered and found in good condition. Both the station and reference marks were in good condition and do not seem to have been disturbed, however the distance to the reference mark was found to be 15.18 meters. The station is on high-water line.

VILLE (New Hanover County, N.C., C.L.G., 1918; N.C. Geod. S., 1927)--Station in good condition. Description is adequate.

VILLE (New Hanover County, N.C., C.L.G., 1918; J.A.B., 1933)--Station recovered as described. Station is 2 yards inside high-water mark, and ground has eroded slightly away from tile.

It is on the mainland, 1 1/4 miles NE of Wrightsville, 1 mile NW of Wrightsville Inlet, on a point 150 yards, WNW, and directly across channel from Beacon "41". Reference mark is in good condition.

WRIGHTSVILLE SOUTHEAST BASE (New Hanover County, N.C., C.L.G., 1918)--Station is on the ocean side of Middle Sound, about 1/2 mile SW from Wrightsville Inlet, 150 yards W of Oceanic Hotel, 6 3/4 rails W of the trolley station, 2 1/4 rails from the E end of a trestle, and 4.36 meters (14.3 feet) S of the S rail of the electric car line.

The station and reference marks are standard bronze disks set in concrete, as described in notes la and 11a.

The underground mark is a block of concrete containing a glass bottle with the neck projecting a little above the concrete.
The reference mark is 25,995 meters (85,29 feet) from the station in azimuth 26° 49'.

WRIGHTSVILLE SOUTHEAST BASE (New Hanover County, N.C., C.L.G., 1918; N.C. Geod. S., 1927)--Surface station was found in bad condition, and was reset by means of plumb bob from underground mark. Station should be used with caution.

WRIGHTSVILLE SOUTHEAST BASE (New Hanover County, N.C., C.L.G., 1918; K.T.A., 1926)--Station recovered as described.

WRIGHTSVILLE SOUTHEAST BASE (New Hanover County, N.C., C.L.G., 1918; N.C. Geod. S., 1928)--Station WRIGHTSVILLE NORTHEAST BASE not now visible from WRIGHTSVILLE SOUTHEAST BASE due to the erection of an amusement booth called "The Strand", on the extreme sound shore of Wrightsville Beach, sometime between September 1927 and June 1928. WRIGHTSVILLE SOUTHEAST BASE was found disturbed by a coastal field party of The North Carolina Department of Conservation and Development in September 1927 and was reset approximately from the underground mark by plumb line.

WRIGHTSVILLE SOUTHEAST BASE (New Hanover County, N.C., C.L.G., 1918; J.A.B., 1933)--Station and reference marks were recovered, and in good condition. Station is on the sound side of Wrightsville Beach, about 150 yards W of the Oceanic Hotel, about 150 feet W of trolley station, about 100 feet E of E end of trolley trestle, and 11 feet S of the S rail of the trolley track. The azimuth given to the reference mark is given from the N instead of the S. This station is now under a boardwalk, and is shut in by buildings. There is also a telephone line directly over it.

WRIGHTSVILLE SOUTHEAST BASE (New Hanover County, N.C., C.L.G., 1918; N.C. Highway Dept., 1937)--From a letter from Mr. C.F. Freeman, Resident Engineer, State Highway and Public Works Commission, Wrightsville Sound, North Carolina, dated April 9, 1937:

Due to highway construction along the Banks Channel, at Wrightsville Beach, it was necessary to destroy the station.
Station and reference marks, stamped "S.E. BASE, 1918" received May 10, 1937.

WRIGHTSVILLE NORTHWEST BASE (New Hanover County, N.C., C.L.G., 1918; 1933)--Station is in Wrightsville, 3.5 meters (12 feet) E of Tidewater Power Company station, 4 yards from side rail of car track, and 8 yards from edge of water. Surface, underground, and reference marks are standard bronze disks set in concrete, as described in notes la, 7a, and 11a. Reference mark is at the NE side of paved road, 18 yards from high water, and 25,130 meters (82,45 feet) from station in azimuth 71° 09'. In 1927, reference mark was under corner of filling station. Station mark is so close to railroad track that signal could not be built over it; and station WRIGHTSVILLE NORTHWEST BASE ECCENTRIC was established in 1932, 174,559 meters (572.70 feet) from station in azimuth 117° 36' 21".

WRIGHTSVILLE NORTHWEST BASE ECCENTRIC (New Hanover County, N.C., C.D.M., 1932; 1933)--Station is in Wrightsville, on vacant lot, about 200 yards NW of post office, approximately 60 meters (197 feet) SW of paved road, 45 meters (148 feet) SW of SW rail of car line, and 17 meters (56 feet) NW of NW side of red house. Surface, underground, and reference marks are standard bronze disks set in concrete, as described in notes la, 7a, and 11a. Reference mark No. 1 is 9 meters (30 feet) N of center line of paved road, 8 meters (26 feet) W of 2 1/2-inch cedar, and approximately 1 1/4 mile from station in azimuth 237° 04' 11". No. 2 is 8 meters (26 feet) SW of SW rail of car line, 3 meters (3 feet) SW of cinder road past house, 0.6 meter (2 feet) N of N corner of yard of red house, and 39.87 meters (130.8 feet) from station in azimuth 216° 15'. No. 3 is NW of W corner of yard of red house, approximately 17 meters (56 feet) W of W corner of red house, 35.11 meters (115.3 feet) from station in azimuth 21° 35'. Station WRIGHTSVILLE NORTHWEST BASE is 174,559 meters (572.70 feet) from station in azimuth 297° 36' 18".

PILGRIM (New Hanover County, N.C., C.D.M., 1932; 1933)--Station is 7/10 mile W of Wrightsville post office, on N side of asphalt road paralleling car tracks, on grounds of St. Pilgrim's Rest colored church which is most westerly of two churches in this vicinity. Station in pine tree area in churchyard, 19.47 meters (64 feet) E of SW corner of church, 12.03 meters (40 feet) S of SE corner of main part of church building, and 57.9 meters (190 feet) (Continued on p. 17)

UNITED STATES COAST AND GEODETIC SURVEY
 Descriptions of Triangulation Stations

 UNITED STATES COAST AND GEODETIC SURVEY
 Descriptions of Triangulation Stations

(LGRIM (Continued))

E of center line of asphalt road at point opposite row of mail boxes. Surface, underground, and reference marks are standard bronze disks set in concrete, as described in Notes 1a, 7a, and 11a. Reference mark No. 1 is 2.1 meters (7 feet) NE of center line of easterly of two lines of tracks, 5.5 meters (18 feet) SW of center line of paved road, 14.8 meters (49 feet) N of electric pole on S side of tracks having sign "Macomber Station," and 241.7 feet from station in azimuth 323°39'. No. 2 is 18.8 meters (62 feet) WSW of NW corner of main part of church, 2.3 meters (8 feet) E of woven-wire fence, and 131.0 feet from station in azimuth 64°05'. No. 3 is on N side of triangular plot of ground, about 8 meters (26 feet) S of center line of private road belonging to Mrs. Harry Waters, 1 foot N of wire fence, and approximately 1/4 mile from station in azimuth 128°40'14".

U.S.E. BASE LINE MARKS (Pender and New Hanover Counties, N.C., J.A.B., 1933)--The following U.S.E. base line marks along the Intracoastal Waterway between New River Inlet, and Cape Fear River were located by triangulation:

3-3-181	3-(4-5)	3-(9-10)	4-(3-4)
3-3-182	3-5-28	3-(10-11)	4-(2-3)
3-3-216+	3-5-43	3-11-147	4-(1-2)
3-3-247+	3-(5-6)	3-(11-12)	4-1-110
3-(3-4)	3-(6-7)	3-(12-13)	4-1-(3-64)
3-4-8+	3-(7-8)	3-(13-14)	
3-4-140+	3-(8-9)	4-(4-5)	

Bogue Inlet to Wrightsville Inlet, North Carolina.

The following description and recovery notes have been received since this pamphlet was lithographed. They are arranged in order along the arc with page reference of previous description.

SWAN POINT 2 (Onslow County, N.C., W.C.H., 1888 and 1914)--At the W side of the mouth of New River, on Swan Point, about 1 foot from the edge of a shell bank and just about in front or SE of a small live oak and a larger oak stands on the flat below the bluff in line with "GRASSY." It is on land of Capt. John Hill. (Marked in 1914.) Station is a standard disk set in concrete at the center of the top of a tile embedded on the ground.

CAMP DAVIS, TANK 1 (Onslow County, N.C., H.C.A., 1943)--The station is the most southwesterly of the four large elevated tanks in Camp Davis. The point observed upon is the center of the ball on the top of the tank. This is an intersection station.

CAMP DAVIS, TANK 2 (Onslow County, N.C., H.C.A., 1943)--The station is the most southwesterly, except one, of the four large elevated tanks in Camp Davis. The point observed upon is the center of the ball on the top of the tank. This is an intersection station.

CAMP DAVIS, TANK 3 (Onslow County, N.C., H.C.A., 1943)--The station is the most northeasterly, except one, of the four large elevated tanks in Camp Davis. The point observed upon is the center of the ball on top of the tank. This is an intersection station.

CAMP DAVIS, TANK 4 (Onslow County, N.C., H.C.A., 1943)--The station is the most northeasterly of the four large elevated tanks in Camp Davis. The point observed upon is the center of the ball on the top of the tank. This is an intersection station.

BEACON 71 (Pender County, N.C., H.C.A., 1943)--The station is the lighted beacon on the Inland Waterway about 300 yards SW of the bridges at Sears Landing. The beacon is a standard Inland Waterway beacon bearing the number 71. This is an intersection station.

Bogue Inlet to Wrightsville Inlet, North Carolina.

BEACON 12 (Pender County, N.C., 1933, H.C.A., 1943)--The beacon has been removed. A new lighted beacon has been installed a short distance away and bears the number 71.

BEACON 72 (Pender County, N.C., H.C.A., 1943)--The station is the first unlighted beacon SW of the bridge at Sears Landing. The beacon is a standard channel marker with a red triangle bearing the number 72. This is an intersection station.

BECK (continued)

mock of oaks, and about 2 yards from the high-water mark. The station mark is described by Note 6c. There are no reference marks.

To reach from Camp Davis railroad station (old Holly Ridge station), go SW 1.3 miles to triangulation station Pender on the right side of the highway, thence continue SW on U.S. Route 17 for 2.0 miles to a T-intersection and turn left onto a graded earth road, thence SE 0.8 mile to a T-intersection and continue straight ahead on the main road, thence 0.4 mile and continue about straight ahead on poor road, thence meander generally SE on the main trail road about 1.2 miles to a small creek which is the end of truck travel in any but very dry weather. Continue along the trail road about 100 yards and bear right across field and marsh about 200 yards to the station.

BANKS (Previous description is on page 12.)

(U.S.E., 1942)--Station in danger of destruction from wind erosion. Reference mark in good condition.

(Camp Davis, 1943)--Letter of Capt. Charles E. Swing, Anti-aircraft Record Section, Anti-aircraft Artillery School, Camp Davis, North Carolina, dated 4/12/43:-

"There has been considerable erosion and shifting of sand on the dune where the station is located. Very recently the station was found in very poor condition with all the supporting sand washed away. The concrete-filled tile had shifted somewhat from its original location. The station was relocated from the reference mark, which is in fairly good condition, and a box was built and then filled with sand to retain the tile in place.

FACTORY (Previous description is on page 13.)

(U.S.E., 1941)--Monument was found on surface of ground, in vicinity of described location.

ALEXANDER (Previous description is on page 13.)

(U.S.E., 1941)--Monument was found on surface of ground, in vicinity of described location.

POPE (Previous description is on page 13.)

(U.S.E., 1941)--Recovered as described.

LONGPOINT 2 (Previous description is on page 14.)

(U.S.E., 1941)--Recovered as described.

ORTON (Previous description is on page 14.)

(U.S.E., 1941)--Recovered as described.

HIGH (Previous description is on page 12.)

(U.S.E., 1942)--Top portion of tile and station marker destroyed. Reference mark in good condition.

MIK (Previous description is on page 12.)

(U.S.E., 1942)--Station and reference marks in good condition.

GANAT (Previous description is on page 12.)

(U.S.E., 1942)--Station destroyed by erosion.

SEARS (Pender County, N.C., H.C.A., 1943)--The station is on the SW side of Sears Landing Road, about 75 yards NW of the NW end of the bridge at Sears Landing, about 25 yards NE of the high-water line, 12 yards NW of a wooden fence, and 10 yards SW of the center line of the road. It projects about 3 inches and is stamped "SEARS 1943".

Station and reference marks are standard disks set in concrete at the center of the tops of tiles embedded in the ground.

Underground mark is a standard disk set in concrete. Reference marks are stamped "SEARS NO. 1 1943" and "SEARS

NO. 2 1943."

OBJECT	DISTANCE	DIRECTION
BECK 1914	feet meters	0°00'00"0
R.M. 1	34.12 10.40	257 25 25
SEARS LANDING TANK		257 25 44.3
R.M. 2	18.93 5.77	300 50 51

SEARS LANDING TANK (Pender County, N.C., H.C.A., 1943)--The station is the center of the orange and black water tank on the military reservation on the island directly opposite Sears Landing. The tank is NW of the intersection of the Sears Landing Road and the road on the island.

The tank is an elevated steel tank supported by a skeleton steel structure. It is about 50 feet high. This is an intersection station.

BECK (Previous description is on page 12.)

(U.S.E., 1942)--Station in good condition.

(H.C.A., 1943)--The original description is accurate, but its adequacy is debatable.

The station is about 4-1/2 miles S of Camp Davis and 1-1/2 mile W of Sears Landing, and it is located on the second point of marsh S of the mouth of Bishop Creek, about 100 yards NE of a small hum-

BLUFF (Previous description is on page 12.)

(U.S.E., 1942)--Station in fair condition. Action of water is loosening station.

(H.C.A., 1943)--The original description is adequate and accurate. The beach is eroding and the station may be lost in a few years.

The station is about 1-1/2 miles SSW of Sears Landing, in the high-water line on the SE side of Topsail Sound, about opposite Bishop Creek, and about 100 yards N of the N corner of a woods known as Topsail Bluff. The station is a standard disk set in the center of the top of a tile embedded in the ground. There are no reference marks.

To reach from the bridge at Sears Landing, go SE 0.4 mile and turn right, thence on the only road SW 1.4 miles. Walk NW across dunes, woods, and marsh to the water edge 100 yards N of the above-named woods and the station.

BEE (Previous description is on page 12.)

(H.C.A., 1943)--The station was recovered as described in the recovery note of J.A.B., in 1933. The beach is eroding and the station may be lost in a few years.

The station is about 2 miles SSW of Sears Landing, on the SE side of Topsail Sound, and about opposite the mouth of Virginia Creek. The station, as repaired in 1933, is a bronze disk set in the center of the top of a tile embedded in the ground.

To reach from the bridge at Sears Landing, go SE 0.4 mile and turn right, thence on the only road SW 2.1 miles to a dim trail road on the right. From the beginning of the dim trail road, go straight into the woods NW about 150 yards to the water edge and the station.

GANAT (Pender County, North Carolina, R.P.S. 1914; K.B. 1943) (Previous description on page 12.) Letter of Mr. K. Bryan, Holly Ridge, N. C., dated Oct. 22, 1943:

About eight miles northeast of Topsail Inlet, N.C. Removed by Armed Forces in installing defense measures and is lying at foot of dune from which it was removed.

NIX (Pender County, North Carolina, R.P.S., 1914; K.B. 1943) (Previous description on page 13.) Letter of Mr. K. Bryan, Holly Ridge, North Carolina, dated Oct. 22, 1943:

Near Topsail Inlet, N.C. and is just as reported in published data, except that back-wash from passing craft in the Inland Waterway has eroded the bank, and threatens to destroy this station within a few years. Station leaning northeastward in the general direction of the Inland Waterway. No name stamped on mark.

SAIL (Pender County, North Carolina, R.P.S., 1914; K.B. 1943) (Previous description on page 13.) Letter of Mr. K. Bryan, Holly Ridge, N.C., dated Oct. 22, 1943:

Near Topsail Inlet, N.C., as reported in published data. Leaning northeastward in the general direction of the Inland Waterway. No name stamped on mark.

BOGUE INLET, COAST GUARD, FLAGPOLE (Carteret County, N.C., K.T.A., 1927; R.J.S., 1946) (Previous description is on page 1)--Station recovered in good condition, as described except for the following additional change:

The Swansboro Lifeboat Station, a group of four buildings, was built in 1941 just north of the station. Coast Guard personnel claim the flagpole is the same as the one used as a station in 1927.

FULLARD (Onslow County, N.C., R.P.S., 1914)--It is a high pole erected in the woods near Fullard Creek. It was not marked or occupied.

No. 476 Supplement
 UNITED STATES COAST AND GEODETIC SURVEY
 Descriptions of Triangulation Stations

Bogue Inlet to Wrightsville Inlet, North Carolina

476 p.10
 DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 FORM 533
RECOVERY NOTE, TRIANGULATION STATION
 2209 R

NAME OF STATION: SWAN POINT (U.S.E.) STATE: North Carolina COUNTY: Onslow
 ESTABLISHED BY: R.P.S. YEAR: 1914 LOCALITY: Sneed's Ferry
 RECOVERED BY: C.R. Reed YEAR: 1947

Detailed statement as to the fitness of the original description: See p. 10
 The station was recovered as described and the mark was found to be in good condition. A complete new description follows:
 The station is located on Swan's Point on the west side of New River. It extends about 10 feet into the inland waterway. The mark is about 24 inches square and the disk is unstamped.

SWAN PT. ECC. 1932 is 200,211 meters from the station in Azimuth 116° 33' 49".
 To reach the station from the Post Office at Sneed's Ferry, go east on the black top highway for 1.45 miles just past end of black top, turn right and go 0.8 mile, following main track road, to the water's edge and the station as described.

476 p.10
 DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 FORM 533
RECOVERY NOTE, TRIANGULATION STATION
 2210 R

NAME OF STATION: SWAN PT. ECC. STATE: North Carolina COUNTY: Onslow
 ESTABLISHED BY: C.D.M. YEAR: 1932 LOCALITY: Sneed's Ferry
 RECOVERED BY: C.R. REED YEAR: 1947

Detailed statement as to the fitness of the original description: See p. 10
 The station was recovered as described and all marks were found to be in good condition except the Azimuth Mark which had been destroyed. A complete new description follows:

The station is located on Swan's Point on the west side of New River. The mark is in the woods about 200 yards west of Triangulation station SWANPOINT 1914 and 60 feet northeast of a track road leading to Swan's Point. The mark is about 12 inches below the surface of the ground and the disk is stamped SWAN PT. ECC. 1932.

Reference Mark No. 1 is 101.07 feet north of the station, in the woods. The mark projects about 10 inches and the disk is stamped SWAN PT. ECC. NO 1 1932.

Reference Mark No. 2 is 103.28 feet east of the station on line with SWAN POINT 1914. The mark projects about 10 inches and the disk is stamped SWAN PT. ECC. NO 2 1932.

SWAN POINT 1914 was used as an Azimuth Mark. It is 200 yards east of the station and extends about 10 feet into the water. The mark is about 24 inches square and the disk is unstamped.

To reach the station from the Post Office at Sneed's Ferry, go east on black top for 1.45 miles (just past end of black top) turn right and go 1.65 miles on track road. Here go about 150 feet northeast in woods on left to the station near some blazed trees.

Objects V.G.	Distance	Direction
TOWER NINE	30.805	0 00 00.0
Reference Mark No. 1	101.07	233 27 40.1
SWAN POINT 1914	200.211	116 33 49.1
Reference Mark No. 2	103.28	338 28 28.1

card 1 of 2
 DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 FORM 532
DESCRIPTION OF TRIANGULATION STATION
 2234

NAME OF STATION: TOWER NINE STATE: North Carolina COUNTY: Onslow
 CHIEF OF PARTY: C.R. Reed YEAR: 1947 LOCALITY: Holly Ridge

OBJECT	DISTANCE	DIRECTION	AZIMUTH
TOWER EIGHT	0 00 00.0		
VIEW 1932	10 31' 30.9		
RANGE THREE	104.934	33 35 54.6	
Reference Mark No. 1	4.814	265 36 38	

Detailed description: The station is located at the northeast end of Topsail Island about 15 miles northeast of Holly Ridge. The disk is in a drill hole near the north corner of a 25 foot square concrete platform. It is 11.9 feet south of the north corner, 9.0 feet southeast of the northwest side and 7.9 feet southwest of the northeast side of the platform. The disk is stamped TOWER NINE 1947.

Reference Mark No. 1 is 15.80 feet southeast of the station and 7.5 feet west of the east corner of the platform. The disk is in a drill hole and is stamped TOWER NINE RM NO 1 1947.

A traverse connection was made to RANGE THREE and the distance was found to be 104.934 meters.

To reach the station from the bridge at Sears Landing, go southeast on black top road for 0.5 miles to a T-road. Turn left and go 13.6 miles to a concrete platform and (continued on card 2)

Described by LET Marked by MWV

the station as described.
 Line Mark to TOWER EIGHT is 17.00 feet southwest of the station in the direction of TOWER EIGHT. The disk is in a drill hole in the concrete platform and is stamped EIGHT.
 An elevation has been determined.

DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 FORM 532
DESCRIPTION OF TRIANGULATION STATION
 2218

NAME OF STATION: RANGE THREE STATE: North Carolina COUNTY: Onslow
 CHIEF OF PARTY: C.R. Reed YEAR: 1947 LOCALITY: Holly Ridge

OBJECT	DISTANCE	DIRECTION	AZIMUTH
This is a traverse station.			

Detailed description: The station is located on the northeast end of Topsail Island about 15 miles northeast of Holly Ridge. It is 165 feet north west of the road, 10 feet south of the east leg and 10 feet east of the south leg of a 50 foot wooden observation and range tower. The mark projects about 2 inches and the disk, a standard traverse disk, is stamped RANGE THREE 1947.

A traverse connection was made to Triangulation station TOWER NINE which is 104.934 meters to the east of the station.

To reach the station from the bridge at Sears Landing, go southeast on the black top road toward the beach for 0.5 mile to a T-road, turn left and go 13.1 miles to a wooden range tower on the left and the station as described.

An elevation has been determined.
 Described by LET Marked by MWV

Note.—The initial direction must be to main adjacent station.

476 p.10
 DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 FORM 533
RECOVERY NOTE, TRIANGULATION STATION
 19
 2211 R

NAME OF STATION: VIEW STATE: North Carolina COUNTY: Onslow
 ESTABLISHED BY: A.P.R. YEAR: 1932 LOCALITY: Holly Ridge
 RECOVERED BY: C.R. Reed YEAR: 1947

Detailed statement as to the fitness of the original description: A Station was recovered as described and all marks were recovered in good condition. A complete new description follows:
 The station is located 13.1 miles northeast of Sears Landing and about 1 1/2 miles southwest of New River Inlet. It is 125 yards northwest of the road. The mark projects about 6" and the disk is unstamped.

Reference Mark No. 1 is 110.0 feet northeast of the station. The mark is in a 6" tile which projects about 4". The disk is unstamped.

Reference Mark No. 2 is 107.4 feet south of the station. The mark is in a 6" tile which projects about 2". The disk is unstamped.

To reach the station from the bridge at Sears Landing, go southeast toward the ocean for 0.5 mile, turn left and go 13.1 miles. The station is 125 yards northwest of the road at this point as described.

Objects V.G.	distance	direction
TOWER NINE	meters	0 00 00.0
Reference Mark No. 1	33.52	00 55 41.6
FISH 1932		165 46 01.6
Reference Mark No. 2	33.36	117 57 08.2

An elevation has been determined.

* Name of chief of party should be inserted here. The officer who actually visited the station should sign his name at the end of the recovery note.
 u. s. GOVERNMENT PRINTING OFFICE

(Previous description is on page 10)

FISH (Onslow County, N.C., C.D.M., 1932:1942)—Letter of Mr. B.F. Beavin, Chief of Surveys, Carr & J.E. Greiner Co., Marine Barracks, New River, N.C., dated Sept. 24, 1942:

"Station was recovered in good condition."

476 p.10
 DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 FORM 533
RECOVERY NOTE, TRIANGULATION STATION
 2200 R

NAME OF STATION: FISH STATE: North Carolina COUNTY: Onslow
 ESTABLISHED BY: A.P.R. YEAR: 1932 LOCALITY: Holly Ridge
 RECOVERED BY: C.R. Reed YEAR: 1947

Detailed statement as to the fitness of the original description: See p. 10
 The station was recovered as described and found to be in good condition. The reference mark is in poor condition due to construction of a road on the island and will probably soon be destroyed. A complete new description follows:

The station is located about 12 miles northeast of Sears Landing near the northeast end of Topsail Island. It is 75 feet northwest of the road which runs the length of the island. The mark projects about 6" and the disk is stamped FISH 1932.

To reach the station from Sears Landing, go southeast toward the ocean for 0.5 mile, turn left and go 11.8 miles to the station on the left as described.

An elevation has been determined.

476 p.10
 DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 FORM 533
RECOVERY NOTE, TRIANGULATION STATION
 2205 R

NAME OF STATION: LOG STATE: North Carolina COUNTY: Onslow
 ESTABLISHED BY: R.S.P. YEAR: 1914 LOCALITY: Holly Ridge
 RECOVERED BY: C.R. Reed YEAR: 1947

Detailed statement as to the fitness of the original description: See p. 10
 The station was recovered as described, but was found to be in poor condition due to construction of a road near the station. R.M. 2 was recovered and found to be in good condition. R.M. 1 is believed to be destroyed. A new station LOG 2 was established 5,556 meters east of the station. A complete new description follows:

Station is located 10.0 miles northeast of Sears Landing at the top of a cut on the right side of the road. The disk is unstamped and is in the top of a 6" tile which projects about 10 inches.

To reach the station from Sears Landing, go 0.5 mile toward the ocean to a T-road, turn left and go 10.0 miles to a deep cut and the station as described.

Reference Mark No. 2 is 50.74 meters west of the station on the west side of the road. The disk is in a 6" tile and is stamped LOG 2.

No observations could be taken from this station due to the eroded condition of the bank.
 A traverse connection was made to TOWER EIGHT, the distance found to be 671.858 meters
 An elevation has been determined.

DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 FORM 532
DESCRIPTION OF TRIANGULATION STATION
 2215

NAME OF STATION: LOG 2 STATE: North Carolina COUNTY: Onslow
 CHIEF OF PARTY: C.R. Reed YEAR: 1947 LOCALITY: Holly Ridge

OBJECT	DISTANCE	DIRECTION	AZIMUTH
TOWER EIGHT	meters	0 00 00	
Reference Mark No. 2	50.902	47 15 39	
LOG 1914	5.556	81 53 52.4	
Reference Mark No. 3	17.541	329 41 01	
MUSH 1914	359 20 57.0		

Detailed description: The station is located on Topsail Island about 10 miles northeast of Sears Landing and 0.4 mile northeast of TOWER EIGHT. It is 30 feet southeast of the main road on the island and 150 feet northwest of the ocean. A traverse connection was made to Triangulation station LOG 1914 and the distance was found to be 18.23 feet. The mark projects about 4" and the disk is stamped LOG 2 1947.

Reference Mark No. 2 is 167.0 feet west of the station and 50 feet northwest of the road. This mark is also a reference mark for LOG 1914. The disk is in the top of a 6" tile and is stamped LOG 2.

Reference Mark No. 3 is 57.55 feet south of the station and 60 feet southeast of the road. The mark projects about 4" and the disk is stamped LOG TWO NO 3 1947.

To reach the station from Sears Landing, go 0.5 mile toward the ocean to a T-road, turn left and go 10.0 miles to a deep cut and the station on the right as described.
 An elevation has been determined.

Described by VN

Note.—The initial direction must be to main adjacent station.

card 1 of 2
DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: TOWER EIGHT
CHIEF OF PARTY: C.R. Reed
Surface-station mark, Note,*
Underground-station mark, Note,*
Reference mark, Note,*
Reference mark, Note,*
Azimuth mark, Note,*
Witness mark, Note,*

STATE: North Carolina COUNTY: Onslow
YEAR: 1947 LOCALITY: Holly Ridge

OBJECT	DISTANCE	DIRECTION	AZIMUTH
TOWER SEVEN	179	00 00	00 00
LOG 1914	179	44 54	00 00
Reference Mark No. 1	6,565	314 54	01 00

Height of light above station mark 1 meters.
Height of telescope above station mark 1 meters.
Detailed description: The station is located about 4 miles southeast of the northeast end of Topsail Island, along the seaward side. The disk is in a drill hole in the roof of a concrete observing tower which is about 30 feet tall. It is 4.0 feet south of the north corner, 2.9 feet southeast of the northwest side and 3.0 feet southwest of the northeast side of the tower. The disk is stamped TOWER EIGHT 1947.
Reference Mark No. 1 is 21.54 feet south of the station and 1 foot south of the south corner of the tower in a drill hole in the concrete apron that runs around the foot of the tower. The disk is stamped TOWER EIGHT NO 1 1947.
Line Mark Seven is 13.4 feet from the station in the direction of TOWER SEVEN. The disk is a standard Reference Mark disk and is stamped SEVEN.
Line Mark Nine is 12.58 feet from the station in the opposite direction from TOWER NINE. The disk is a standard Reference Mark disk and is stamped NINE.
Described by LET Marked by MWV

* Refers to pages 108 and 109, Special Publication No. 120, or to pages 112 and 113, Special Publication No. 145. † To measure under only, when no trigonometric leveling is being done.

A traverse connection was made to Triangulation station LOG 1914. The distance was found to be 671.858 meters. Station LOG 1914 is 0.4 mile northeast of TOWER EIGHT at the top of a cut on the right.
To reach the station from Sears Landing, go 0.5 mile toward the ocean to a T-road, turn left and go 09.6 miles to a white concrete tower on the right and the station as described.
An elevation has been determined.

(Previous description is on page 10)
GRANT (Onslow County, N.C., C.D.M., 1932; 1942)—Letter of Mr. B.E. Beavin, Chief of Surveys, Carr & J.E. Greiner Co., Marine Barracks, New River, N.C., dated Sept. 24, 1942:
Station was recovered in good condition.

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: GRANT
CHIEF OF PARTY: C.D.M. Year: 1932
RECOVERED BY: C.R. Reed Year: 1947

STATE: North Carolina COUNTY: Onslow
LOCALITY: Folkstone

Detailed statement as to the fitness of the original description: The station was recovered as described and all marks were found to be in good condition. RM No. 1 had been run into by a tractor and moved slightly, but is still solid. Mr. S.D. Grant who now owns the land, requested that RM No. 2 (Azimuth Mark) be moved. A new Azimuth Mark was set near the old one as described below. A complete new description follows:
Station is located in a plowed field 2.15 miles from Sneed's Ferry and 5.8 miles from Folkstone. It is 65 feet southeast of the approximate centerline of a dirt road, 17 feet southwest of the west track of a track road and 140 feet northwest of the northwest corner of a tobacco barn. The mark is flush with the ground and the disk is stamped GRANT 1932.
Reference Mark No. 1 is 152.39 feet north of the station and 25 feet northwest of the approximate centerline of the main dirt road. The mark projects about 6" and the disk is stamped GRANT NO 1 1932.
Reference Mark No. 2 is 0.3 mile north of the station, 25 feet south of a track road leading to the farm just before reaching the farm. The mark projects about 4" and the disk is stamped GRANT NO 2 1932. This mark may be destroyed soon as it is situated in ground that is to be cultivated.
Reference Mark No. 3 is 182.70 feet west of the station and 25 feet northwest of the approximate centerline of the main dirt road. The mark projects about 4" and the disk is stamped GRANT NO 3 1932.
(continued on card 2 of 2)

* Name of chief of party should be inserted here. The officer who actually visited the station should sign his name at the end of the recovery note. † To measure under only, when no trigonometric leveling is being done.

The Azimuth Mark is 0.3 mile north of the station, 3 feet northeast of REA pole No. REA CO-OP X201B and 20 feet northwest of the track road leading to the farm. The mark projects about 4" and the disk is stamped GRANT 1932 RESSET 1947.
To reach the station from Folkstone on U.S. Highway 17, go east on a main travelled dirt road bearing slightly left at times, for 5.8 miles to the station in a field as described.
To reach the Azimuth Mark from the station, go north across dirt road on woods road for 0.3 mile to farm on left, Azimuth Mark is about 100 feet northeast as described.
Objects V.G. Distance Direction
SWAN PT. BCC. 1932 meters 0 00 00
Reference Mark No. 3 55.687 182 11 10
Reference Mark No. 2, 0.3 mile 296 17 59.5
Azimuth Mark, 0.3 mile 296 42 41.2
Reference Mark No. 1 46.448 294 11 19

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: MUSH
ESTABLISHED BY: R.P.S. Year: 1914
RECOVERED BY: C.R. Reed Year: 1947

STATE: North Carolina COUNTY: Onslow
LOCALITY: Holly Ridge

Detailed statement as to the fitness of the original description: The station is located on the northern end of Topsail Island about 9 miles northeast of Sears Landing on the ridge of dunes near the ocean. It is 100 feet southeast of the road and 100 feet northwest of the high tide mark. The disk is in the top of a 6" tile and is unstamped. The mark is in good condition.
To reach the station from Sears Landing, go southeast toward the ocean for 0.5 mile to a T-road, turn left and go 8.7 miles to the station on the right as described.
An elevation has been determined.

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: CRAB
ESTABLISHED BY: R.P.S. Year: 1914
RECOVERED BY: C.R. Reed Year: 1947

STATE: North Carolina COUNTY: Onslow
LOCALITY: Holly Ridge

Detailed statement as to the fitness of the original description: The station was recovered as described, but the mark was in poor condition due to the eroding action of the sand. A new mark was set over the same spot and the station marked as given below:
The station is located near the northeastern end of Topsail Island on the high ridge of dunes next to the ocean. It is 40 yards southeast of the main road that runs the length of the island and about 50 yards from high tide. The mark (notes 1a-7a) projects about 8 inches and the disk is stamped CRAB 1914 1947.
To reach the station from the bridge at Sears Landing, go southeast toward the ocean for 0.5 mile, turn left and go 7.8 miles to the station on the right as described.
Objects V.G. Direction
TOWER SEVEN 0 00 00.0
MUSH 1914 178 53 16.9

An elevation has been determined.

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: RANGE TWO
CHIEF OF PARTY: C.R. Reed

STATE: North Carolina COUNTY: Onslow
YEAR: 1947 LOCALITY: Holly Ridge

OBJECT	DISTANCE	DIRECTION	AZIMUTH
This is a traverse station			

Height of light above station mark meters.
Height of telescope above station mark meters.
Detailed description: The station is located about 7 miles northeast of Sears Landing on the northern end of Topsail Island. It is 50 yards northwest of the main road of the Island, just in front of a wooden range tower. The mark is a standard traverse disk projecting about 2". The disk is stamped RANGE TWO 1947.
To reach the station from Sears Landing, go southeast toward the ocean for 0.5 mile to a T-road, turn left and go 6.95 miles to a wooden range tower on the left and the station as described.
A traverse connection was made to Triangulation station TOWER SEVEN and the distance was found to be 537.978 meters.
An elevation has been determined.

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: TOWER SEVEN
CHIEF OF PARTY: C.R. Reed

STATE: North Carolina COUNTY: Onslow
YEAR: 1947 LOCALITY: Holly Ridge

OBJECT	DISTANCE	DIRECTION	AZIMUTH
ZERO	0	00 00	00 00
TOWER SIX	058	05 18.8	00 00
TOWER EIGHT	188	03 40.1	00 00
Reference Mark No. 1	6,565	321 44 24	00 00
RANGE TWO	537.978	181 35 15.9	00 00

Height of light above station mark 1 meters.
Height of telescope above station mark 1 meters.
Detailed description: The station is located about 35 miles northeast of Wilmington, 5 miles east of Holly Ridge and 6 miles southwest of New River Inlet on the seaward side of Topsail Island. The disk is in the roof of a 30 foot white concrete observing tower. It is 4.0 feet south of the north corner, 2.9 feet southwest of the northeast wall and 2.9 feet southeast of the northwest wall of the tower. The disk is stamped TOWER SEVEN 1947.
Reference Mark No. 1 is 21.54 feet south of the station and 1 foot south of the south corner of tower. The disk is in a drill hole in the concrete apron which runs around the foot of the tower and is stamped TOWER SEVEN RM NO 1 1947.
To reach the station from the Holly Ridge Post Office, go southwest on U.S. Highway 7 for 0.1 mile, turn left and go 4.85 miles to Sears Landing. Continue straight ahead cross bridge for 0.5 mile to T-road, turn left and go 6.6 miles to a white concrete tower on the right and the station in the roof as described.
continued on card 2 of 2
Described by LET Marked by LET
Line mark six is 13.47 feet from the station in the direction of TOWER SIX. The disk is a standard reference mark disk stamped SIX.
Line mark eight is 13.48 feet from the station in the opposite direction from TOWER EIGHT. The disk is a standard reference mark disk stamped EIGHT.
A traverse connection was made to RANGE TWO, the distance found to be 537.978 meters.
An elevation has been determined.

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: BETHA
ESTABLISHED BY: C.D.M. Year: 1935
RECOVERED BY: H.C.A. Year: 1945

STATE: North Carolina COUNTY: Onslow
LOCALITY: Betha Landing

Detailed statement as to the fitness of the original description: The station was recovered as described. Original description adequate.
The station is 2 1/2 miles southeast of Hollyridge on land owned by B.H. Betha. The station is near the fence line and about 20 feet south of the road leading from the farm house to the main road. It is about 65 meters southwest of the farmhouse, 9.44 meters west of a 36-inch live oak, and 11.2 meters south of south face of most westerly of farm buildings.
Station and underground marks are standard disk station marks in concrete, notes 1a and 7a. Reference marks are standard reference disks in concrete, note 11a.
Reference mark No. 1 is in old orchard 12.6 meters northwest of 12-inch magnolia tree, 12.5 meters north of northwest corner of fence around house.
Reference mark No. 2 is in an open field 15 meters northeast of old road leading to the station and 4 meters east of the road running diagonally across the field.
Reference mark No. 3, the azimuth mark is 1 foot east of north and south wire fence about 12 feet from the centerline of the main road and at the point where the farm road running diagonally across the field enters the main road, and about 75 meters south of old building on west side of road.
continued on page 2
* Name of chief of party should be inserted here. The officer who actually visited the station should sign his name at the end of the recovery note. † To measure under only, when no trigonometric leveling is being done.

To reach the station from Hollyridge (Camp Davis) go southeast on the first road northeast of the main gate of Camp Davis, following the main road, for 1.6 miles, take right fork and follow for 1.2 miles to farm road leading diagonally off to the left to the farmhouse and the station.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY FORM 525
NAME OF STATION: BETHEA STATE: North Carolina COUNTY: Onslow
ESTABLISHED BY: C.D.M. YEAR: 1932 LOCALITY: Holly Ridge
RECOVERED BY: C.R. Reed YEAR: 1947

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY FORM 525
NAME OF STATION: HIGH STATE: North Carolina COUNTY: Pender
ESTABLISHED BY: J.A.B. YEAR: 1933 LOCALITY: Holly Ridge
RECOVERED BY: C.R. Reed YEAR: 1947

Detailed statement as to the fitness of the original description: See p. 11
The station was recovered as described and all marks were found to be in good condition.

Detailed statement as to the fitness of the original description: The station was recovered as described and the reference mark was found to be in good condition.

The station is located 2 3/4 miles east of Holly Ridge on land owned by R.H. Bethea. It is about 200 feet southwest of the farmhouse, 30 feet west of a 36" Live Oak tree and 25 feet north of a track road leading to the farm.

The station is located along the ridge of dunes on the seaward side of Topsail Island about 2 miles east of Sears Landing. It is 100 feet north of high tide and 100 feet south of a telephone and power line.

Reference Mark No. 1 is 170.3 feet northeast of the station, 50 feet northwest of the northwest corner of the house and 40 feet northwest of a 12" Magnolia tree.

The Reference Mark is 60.26 feet northeast of the station on the ridge of dunes. The mark is flush and the disk is stamped HIGH 1933.

Reference Mark No. 2 is 140.2 feet northwest of the station, 1 foot southwest of a tall, chicken wire fence and 25 feet northeast of the track road leading to the farm.

To reach from the bridge at Sears Landing, go east toward the beach for 0.5 mile, turn left at T-road and go 0.8 mile to point where main road bears left. Continue straight ahead following telephone and power line next to the dunes for 0.8 mile and the station on the right as described.

Reference Mark No. 3 (Azimuth Mark) is 0.2 mile northwest of the station and 15 feet west of the approximate centerline of a main travelled dirt road where the farm road enters it diagonally.

Objects V.G. Distance Direction
TOWER FIVE 1908.119 meters 0 00 00.0
BANKS 1933 177 47 59.5
Reference Mark 18.367 181 21 28.0

To reach the station from the Post Office at Holly Ridge, go northeast on U.S. Highway 17 for about one block to first street right. Turn right and go easterly for 1.6 miles to a fork. Take right fork and go 1.2 miles to the Azimuth Mark (cont on card 2 of 2)

A traverse connection was made to TOWER FIVE, the distance found to be 1908.119 meters. An elevation has been determined.

Name of chief of party should be inserted here. The officer who actually visited the station should sign his name at the end of the recovery note.

(continued from card 1 of 2) on the right as described. Go left diagonally for 0.2 mile and the station on the left just before coming to the farm buildings.

DESCRIPTION OF TRIANGULATION STATION
NAME OF STATION: TOWER FIVE STATE: North Carolina COUNTY: Pender
CHIEF OF PARTY: C.R. Reed YEAR: 1947 LOCALITY: Holly Ridge

Table with 4 columns: Object, Distance, Direction, Azimuth. Rows include Reference Mark No. 2, Reference Mark No. 3, Reference Mark No. 1.

Table with 4 columns: OBJECT, DISTANCE, DIRECTION, AZIMUTH. Rows include ZERO, TOWER FOUR, TOWER SIX, Reference Mark No. 1.

Detailed description: The station is located about 30 miles northeast of Wilmington and 5 miles south of Holly Ridge near the middle of Topsail Island.

Detailed description: The station is located about 30 miles northeast of Wilmington and 5 miles south of Holly Ridge near the middle of Topsail Island.

Reference Mark No. 1 is 37.63 feet (11.470 meters) northeast of the station. The mark is an 8" tile projecting about 8" and the disk is stamped PED NO 1 1933.

Reference Mark No. 1 is 21.42 feet south of the station and 1 foot south of the south corner of the tower. The disk is in a drill hole in the concrete apron around the foot of the tower.

To reach the station from the bridge at Sears Landing, go southeast toward the ocean for 0.5 mile, turn left and go 4.5 miles to the station on the right on the ridge of dunes as described.

To reach the station from the Post Office at Holly Ridge, go southwest on U.S. Highway 17 for 0.1 mile, turn left and go 0.85 miles to Sears Landing. Continue straight ahead across bridge for 0.5 mile to T-road. Turn left and go 0.4 mile to sideroad, turn right and go 0.1 mile to white concrete tower and the station as described.

An elevation has been determined.

Line mark four is 13.42 feet from the station in the direction of TOWER FOUR. The disk is a standard reference mark disk stamped FOUR.

An elevation has been determined.

Line mark six is 13.17 feet from the station in the opposite direction from TOWER SIX. The disk is a standard reference mark disk stamped SIX.

An elevation has been determined.

A traverse connection was made to Triangulation station HIGH 1914 1947 and the distance was found to be 1908.119 meters.

An elevation has been determined.

A traverse connection was made to CENTRAL, the distance found to be 599.770 meters. An elevation has been determined.

An elevation has been determined.

A traverse connection was made to triangulation station TOWER FOUR and the distance was found to be 3070.9335 meters.

An elevation has been determined.

TOWER FOUR C.R. Reed North Carolina 1947 Fender Holly Ridge

NAME OF STATION: WILKINSON ESTABLISHED BY: R.M.S. RECOVERED BY: C.R. Reed YEAR: 1914 LOCALITY: Holly Ridge STATE: North Carolina COUNTY: Fender

Detailed statement as to the fitness of the original description: See p. 13 The station was recovered as described and all marks were found in good condition with the exception of R.M. No. 1 which could not be found and R.M. No. 3 which had been run over by a tractor and moved slightly. A complete new description follows: The station is located about 25 miles northeast of Wilmington and 8 miles south of Holly Ridge on the west edge of The Inland Waterway about 10 feet west of high water. The mark projects about 10 inches and the disk is stamped ATKINSON 1914 1932, note 1a. Reference Mark No. 2 is 88.19 feet southwest of the station and about 40 feet west of high water. The mark projects about 10 inches and the disk is stamped ATKINSON NO 2 1932. Reference Mark No. 3 was used as an Azimuth Mark. It is approximately 0.2 mile west of the station and 15 feet south of a track road. The mark projects about 8 inches and the disk is stamped ATKINSON NO 3 1932, note 1a. Reference Mark No. 4 is 97.67 feet northwest of the station and 10 feet south of the track road leading to the station. The mark projects about 8 inches and the disk is stamped ATKINSON NO 4 1932, note 1a.

Line Mark to Tower Three is 13.15 feet from the station in the direction of Tower Three. The disk is a standard Reference Mark disk stamped THREE. Line Mark to Tower Five is 13.30 feet from the station in the opposite direction from Tower Five. The disk is a standard Reference Mark disk stamped FIVE. An elevation has been determined. A traverse connection was made to triangulation station TOWER FIVE and the distance was found to be 3070.9335 meters.

To reach the station from the Post Office in Holly Ridge, go southwest on U.S. Highway 17 for 0.4 miles, turn left on a main travelled dirt road for 0.185 miles, take right fork for 0.2 miles, turn right on track road for 0.7 miles and turn left along edge of field just before coming to white house on the right. Go along edge of field for 0.45 mile to the Azimuth Mark (R.M. No. 3) on the right as described. (continued on card 2 of 2) continued from card 1 of 2) Continue straight ahead to edge of woods, bearing left, then right thru woods to the beach and the station as described. Objects V.G.

Table with columns: Object, old distance, new distance, Direction. Rows include HAMSTEAD 2, Reference Mark No. 2, Reference Mark No. 3, Reference Mark No. 4, TOWER THREE, TOWER TWO, TOWER ONE.

FENDER (Fender County, N.C., C.D.M., 1932)--About 30 miles by road northeast of Wilmington, on north side of highway right-of-way, and is reached by following route 17 direct to station site. Station is 15 meters (49 feet) south of south rail of Atlantic Coast Line Railroad, 10 meters (33 feet) north of center line of route 17, and 13 meters (43 feet) west of intersection of sand road with highway. Surface and underground marks are standard disk station marks in concrete, notes 1a and 7a. Reference mark No. 1 is standard reference disk, on south end of cement bridge on highway, and approximately one-fourth mile from station in azimuth 220°39'45". Reference marks Nos. 2 and 3 are standard reference disks in concrete, note 1a. No. 2 is 4 meters (13 feet) west of the center line of sand road leading south, and 45.29 meters (148.6 feet) from station in azimuth 284°09'. No. 3 is 10 meters (33 feet) north of center line of route 17, approximately 15 meters (49 feet) east of south rail of railroad, and 48.67 meters (159.7 feet) from station in azimuth 39°23'.

RECOVERY NOTE, TRIANGULATION STATION 1680 R

NAME OF STATION: FENDER STATE: North Carolina COUNTY: Fender COUNTY ESTABLISHED BY: C. D. Meany YEAR: 1932 LOCALITY: Original description is published in State Highway & Public Works Comm. Special Publication No. 192. RECOVERED BY: R. A. Pollock, YEAR: 1940

Detailed statement as to the fitness of the original description: On August 8, 1940, Mr. R. A. Pollock, Resident Engineer, State Highway and Public Works Comm., Jacksonville, N. C., was sent a new reference mark disk stamped "FENDER NO. 1 RESET 1940". A letter dated Nov. 2, 1940, from Mr. Pollock contains the following statement: "THE location of the new reference mark FENDER NO. 1 was not changed; so, all previous data will remain the same."

RECOVERY NOTE, TRIANGULATION STATION 2198 R

NAME OF STATION: BUMBLE STATE: North Carolina COUNTY: Fender COUNTY ESTABLISHED BY: R.P.S. YEAR: 1914 LOCALITY: Holly Ridge RECOVERED BY: C.R. Reed YEAR: 1947

Detailed statement as to the fitness of the original description: See p. 12 The station was recovered as described and the station mark was found to be in good condition. The reference mark was searched for but not recovered. It has probably been destroyed due to the erosion of the beach. A complete new description follows:

The station is on the inland side of the banks, opposite Virginia Creek, on the marsh at the curve of the channel from sloop point to the banks. The station is on the beach and is under water at extreme high tide. The mark is a standard unstamped bronze disk in the end of a 4" tile which projects about 12" above the surface of the ground. To reach the station from the bridge at Sears Landing, go across bridge towards the beach for 0.5 mile, turn right and go 0.2 miles to E.T.T. (end of truck travel). Go north-west through the scrub trees and brush for about 1/2 mile to the beach and the station as described. Objects V.G.

Table with columns: Object, Direction. Rows include ATKINSON 1914 1932, TOWER THREE, TOWER TWO.

RECOVERY NOTE, TRIANGULATION STATION 1917 R

NAME OF STATION: FENDER STATE: North Carolina COUNTY: Fender COUNTY ESTABLISHED BY: C.D.M. YEAR: 1932 LOCALITY: Camp Davis RECOVERED BY: H.C.A. YEAR: 1913

Detailed statement as to the fitness of the original description: The original description is inadequate because of much recent construction which has caused the locality to become known as Camp Davis instead of Holly Ridge which is the name of the railroad station and the old post office. The station is 2.1 miles southwest of the Holly Ridge (or Camp Davis) railroad station, about 1/4 mile southwest of the Fender-Onslow County Line, 49 feet southeast of the southeast rail of the Atlantic Coast Line Railroad, and 53 feet northwest of the center-line of U. S. Route 17. The surface and underground marks are described by notes 1a and 7a. The surface mark projects about 8 inches and is stamped FENDER 1932. Reference mark No. 1 was set in 1910 near but definitely not in the same location as original No. 1 or azimuth mark. The present mark is in the floor of a concrete culvert on Fender-Onslow County Line, about 6 feet southeast of the centerline of the culvert surface, and near the centerline of the culvert. It is a Coast Survey reference-mark disk cemented into the culvert floor which is covered by about 10 inches of earth, and it is stamped FENDER NO 1 RESET 1940. A U. S. Engineers azimuth mark disk in a concrete post projecting about 3 feet and set alongside the railroad about 0.2 mile northeast of the county line should not be confused with the Coast Survey mark. Reference mark No. 2 is 13 feet southwest of the centerline of a sand road leading southeast. It is 45.29 meters or 148.6 feet about east of the station and is stamped FENDER NO. 2 1932. Reference mark No. 3 was destroyed by highway construction.

DESCRIPTION OF TRIANGULATION STATION 2223

Table with columns: OBJECT, DISTANCE, DIRECTION, AZIMUTH. Rows include ZERO, TOWER TWO, TOWER FOUR, Reference Mark No. 1, BUMBLE 1914.

Detailed description: The station is located about 4 miles northeast of the southwest end of Topsail Island, 29 miles northeast of Wilmington and 7 miles south of Holly Ridge. The disk is in a drill hole in the roof of a white concrete observing tower which is about 40 feet tall. It is 4.0 feet south of the north corner, 2.8 feet southeast of the north-west side and 2.9 feet southwest of the northeast side of the tower. The disk is stamped TOWER THREE 1947. Reference Mark No. 1 is 21.52 feet south of the station and 1 foot south of the south corner of the tower in a drill hole in the concrete apron around the foot of the tower. The disk is stamped TOWER THREE RM NO 1 1917. To reach the station from the Holly Ridge Post Office, go 0.1 mile southwest on U.S. Highway 17 to a sideroad left. Go left for 4.85 miles to Sears Landing. Continue straight ahead across bridge for 0.5 mile to a T-road. Turn right and go 3.65 mile to a white concrete tower and the station as described on the left.

RECOVERY NOTE, TRIANGULATION STATION 2208 R

NAME OF STATION: FENDER STATE: North Carolina COUNTY: Fender COUNTY ESTABLISHED BY: C.D.M. YEAR: 1932 LOCALITY: Holly Ridge RECOVERED BY: C.R. Reed YEAR: 1947

Detailed statement as to the fitness of the original description: The station was recovered as described and all marks were found in good condition that were recovered by H.C.A. in 1943. A complete new description follows: The station is located about 28 miles northeast of Wilmington and 0.2 miles southwest of the Holly Ridge Post Office along the northwest side of U.S. Highway 17. It is 34 feet northwest of the centerline of the highway and 49 feet southeast of the southeast rail of the Atlantic Coast Line Railroad. The mark projects about 8 inches and the disk is FENDER 1932.

RECOVERY NOTE, TRIANGULATION STATION 2197 R

NAME OF STATION: BLAKE STATE: North Carolina COUNTY: Fender COUNTY ESTABLISHED BY: R.P.S. YEAR: 1914 LOCALITY: Holly Ridge RECOVERED BY: C.R. Reed YEAR: 1947

Detailed statement as to the fitness of the original description: See p. 13 The station was recovered as described. The mark was found in bad condition and will not last much longer due to erosion of the beach. A complete new description follows:

The station is located on the inshore side of Topsail Island about 24 miles northeast of Topsail Inlet. It is about 1 foot from the bank at high tide and projects about 18 inches. The disk is in the end of a 4" tile and is unstamped. A traverse connection was made to TOWER TWO R.M. No. 1 and the distance was found to be 92.123 meters. To reach from Holly Ridge, go southwest on U.S. Highway 17 for 0.1 mile, turn left and go 4.85 miles to Sears Landing. Continue straight ahead across bridge for 0.5 mile to T-road, turn right and go 5.0 miles to side road, turn right and go 0.1 mile to a white concrete observing tower about 40 feet tall. The station is about 100 yards west of this tower at the water's edge. Objects V.G.

Reference mark No. 1 (reset 1940) is used as an Azimuth Mark. It is 0.3 mile north-east of the station on the southeast side of U.S. Highway 17 at the Onslow-Fender County Line. The disk is in a drill hole in the flat top of a concrete culvert 20 feet south-east of the centerline of the Highway at the approximate centerline of the culvert. The disk is stamped FENDER NO 1 RESET 1940. Reference mark No. 2 is 148.66 feet southeast of the station, 104 feet southeast of the centerline of U.S. Highway 17 and 15 feet south of the approximate centerline of a dirt side road. The mark projects about 8 inches and the disk is stamped FENDER NO 2 1932. Objects V.G.

Table with columns: Object, New Distance, Old Distance, Direction. Rows include BETHETA 1932, Reference Mark No. 2, Reference Mark No. 1 reset 1940.

Table with columns: Object, Distance, Direction. Rows include ATKINSON 1914-1932, TOWER TWO, TOWER TWO, R.M. No. 1.

*Name of chief of party should be inserted here. The officer who actually visited the station should sign his name at the end of the recovery note. NOTE.—One of these forms must be used for every station recovered.

Traverse connection made to TOWER TWO, distance found to be 90.326 meters.

card 1 of 2
DESCRIPTION OF TRIANGULATION STATION

2221

NAME OF STATION: TOWER TWO
CHIEF OF PARTY: C. R. Reed
Surface-station mark, Note,*
Underground-station mark, Note,*
Reference mark, Note,*
Reference mark, Note,*
Azimuth mark, Note,*
Witness mark, Note,*

STATE: North Carolina COUNTY: Pender
YEAR: 1947 LOCALITY: Holly Ridge

OBJECT	DISTANCE	DIRECTION	AZIMUTH
HAMPSTEAD 2	meters 70 00 00		
ATKINSON 1914 1932	89 36 59.16 -		
TOWER THREE	152 40 41.18 -		
ZERO	317 13 23.08 -		
TOWER ONE	321 12 21.88 -		
Reference Mark No. 1	6.456	41 22	

Detailed description: The station is located on the southwest end of Topsail Island about 25 miles northeast of Wilmington, 3 miles south of Holly Ridge and 2 miles northeast of the southwest end of Topsail Island. The station is located in a drill hole in the north corner of the concrete roof of a white concrete observatory tower which is about 40 feet tall and 18 feet square. It is 4.1 feet south of the north corner, 3.4 feet southeast of the northwest wall and 2.9 feet southwest of the northeast wall of the tower. The disk is stamped TOWER TWO 1947.
Reference Mark No. 1 is 21.18 feet south of the station, in a drill hole in the concrete apron at the foot of the tower. It is 1 foot south of the south corner of the tower and the disk is stamped TOWER TWO RM NO 1 1947.

To reach the station from the Holly Ridge Post Office, go southwest on U.S. Highway 17 for 0.1 mile, turn left between two brick pillars on a black top road (cont. on card 2)

Described by LET

Marked by LET

Note.—The initial direction must be to main sub-station. * Refer to pages 109 and 110, Special Publication No. 130, or to pages 112 and 113, Special Publication No. 145. † To nearest meter only, when no trigonometric leveling is being done.

(cont. from card 1) for 4.85 miles to Sears Landing and bridge. Continue straight ahead across bridge for 0.5 mile to T-road. Turn right and go 5.0 miles to a side road right. Turn right and go 0.1 mile to a white concrete tower and the station on the left as described.

Line Mark to Tower One is 13.07 feet from the station in the direction of Tower One. The disk is a standard Reference Mark disk stamped ONE.

Line Mark to Tower Three is 13.33 feet from the station opposite the direction of Tower Three. The disk is a standard Reference Mark disk stamped THREE.

Additional objects V.G.

Object	Direction
HAMPSTEAD 2	0 00 00
BLAKE 1914	23 53 18.5
BUMBLE 1914	144 59 57.2

A traverse connection was made to BLAKE, the distance found to be 90.326 meters. An elevation has been determined.

card 1 of 2
DESCRIPTION OF TRIANGULATION STATION

2236

NAME OF STATION: ZERO
CHIEF OF PARTY: C.R. Reed
Surface-station mark, Note,* 1a
Underground-station mark, Note,* 7a
Reference mark, Note,*
Reference mark, Note,*
Azimuth mark, Note,*
Witness mark, Note,*

STATE: North Carolina COUNTY: Pender
YEAR: 1947 LOCALITY: Holly Ridge

OBJECT	DISTANCE	DIRECTION	AZIMUTH
HAMPSTEAD 2	meters 0 00 00		
TOWER TWO	124 35 47.14 -		
TOWER ONE	331 31 49.79 -		
Steel Launching Pin	20.882	120 59 33.9	
CONTROL 242 634 meters		107 26 48.0	
CAMERA 242 634 meters			

Detailed description: The station is located near the southwest end of Topsail Island about 8 miles south of Holly Ridge and 25 miles northeast of Wilmington. It is 61.2 feet south of the west corner of the concrete launching platform, 46.5 feet west of the south corner of the platform and 20.1 feet southwest of the southwest side of the platform. The mark is about 6 inches below the surface of the ground and the disk is stamped ZERO 1947. To reach the station from the Post Office in Holly Ridge, go southwest on U.S. Highway 17 for 0.1 mile, turn left between two brick pillars and go south for 4.85 miles to Sears Landing and Bridge. Continue straight ahead for 0.5 across bridge to T-road. Turn right and go 6.4 miles, turn left for about 100 feet to concrete launching platform and the station as described.

Line Mark to Tower One is 87.17 feet from the station in the opposite direction from Tower One. The disk is a standard Reference Mark disk stamped ONE. (cont on card 2)

Described by LET

Marked by LET

Note.—The initial direction must be to main sub-station. * Refer to pages 109 and 110, Special Publication No. 130, or to pages 112 and 113, Special Publication No. 145. † To nearest meter only, when no trigonometric leveling is being done.

Line Mark to Tower Two is 95.97 feet from the station in the direction of Tower Two. The disk is a standard Reference Mark disk and is stamped TWO.

Steel Launching Pin is a 4" steel shaft embedded in the launching platform and extending about 8" above the platform. It is 68.51 feet north of the station. The point measured to and observed is a center punch mark on the top and center of the pin.

A traverse connection was made to traverse station CONTROL and the distance was found to be 95.199 meters.

A traverse connection was made to traverse station CAMERA and the distance was found to be 242.634 meters.

A traverse connection was made to TOWER ONE and the distance was found to be 409.036 meters.

An elevation has been determined.

DESCRIPTION OF TRIANGULATION STATION

2212

NAME OF STATION: CONTROL
CHIEF OF PARTY: C.R. Reed
Surface-station mark, Note,*
Underground-station mark, Note,*
Reference mark, Note,*
Reference mark, Note,*
Azimuth mark, Note,*
Witness mark, Note,*

STATE: North Carolina COUNTY: Pender
YEAR: 1947 LOCALITY: Holly Ridge

OBJECT	DISTANCE	DIRECTION	AZIMUTH
This is a traverse station			

Detailed description: The station is located on the southeastern end of Topsail Island about 6 miles southeast of Sears Landing. It is 30 feet west of a crossroad intersection, 10 feet south of the east corner of a concrete control tower and 10 feet east of the south corner of the tower. The mark is flush with the ground and the disk is stamped CONTROL 1947.

A traverse connection was made to Triangulation station ZERO and the distance was found to be 95.199 meters.

To reach the station from the bridge at Sears Landing, go southeast toward the ocean for 0.5 mile, turn right and go 6.4 mile to a crossroad with a concrete control tower in the west angle and the station as described.

An elevation has been determined.

Described by LET

Marked by MDW

Note.—The initial direction must be to main sub-station. * Refer to pages 109 and 110, Special Publication No. 130, or to pages 112 and 113, Special Publication No. 145. † To nearest meter only, when no trigonometric leveling is being done.

DESCRIPTION OF TRIANGULATION STATION

2216

NAME OF STATION: RANGE ONE
CHIEF OF PARTY: C.R. Reed
Surface-station mark, Note,*
Underground-station mark, Note,*
Reference mark, Note,*
Reference mark, Note,*
Azimuth mark, Note,*
Witness mark, Note,*

STATE: North Carolina COUNTY: Pender
YEAR: 1947 LOCALITY: Holly Ridge

OBJECT	DISTANCE	DIRECTION	AZIMUTH
This is a traverse station			

Detailed description: The station is located on the southeastern end of Topsail Island about 6 miles southeast of Sears Landing on the inland side of the island. It is directly in front of a wooden range tower, 12 feet south of the east leg and 10 feet east of the south leg of the tower. The mark is flush with the ground and the disk, a standard triangulation disk, is stamped RANGE ONE 1947.

To reach the station from Sears Landing, go across the bridge towards the ocean for 0.5 mile, turn right go 6.25 miles to a side road right, turn right and go 0.1 mile to a wooden range tower and the station as described.

An elevation has been determined.

A traverse connection was made to Triangulation station CAMERA and the distance was found to be 175.447 meters.

DESCRIPTION OF TRIANGULATION STATION

2210

NAME OF STATION: CAMERA
CHIEF OF PARTY: C.R. Reed
Surface-station mark, Note,*
Underground-station mark, Note,*
Reference mark, Note,*
Reference mark, Note,*
Azimuth mark, Note,*
Witness mark, Note,*

STATE: North Carolina COUNTY: Pender
YEAR: 1947 LOCALITY: Holly Ridge

OBJECT	DISTANCE	DIRECTION	AZIMUTH
This is a traverse station			

Detailed description: The station is located on the southeast end of Topsail Island about 6 miles southwest of Sears Landing. It is 50 feet north of a T-road intersection and 6 feet southwest of a telephone pole. The mark is flush with the ground and the disk (a standard triangulation disk) is stamped CAMERA 1947.

A traverse connection was made to triangulation station ZERO and the distance was found to be 242.634 meters.

To reach the station from the bridge at Sears Landing, go southeast toward the ocean for 0.5 mile, turn right and go 6.25 miles to a T-road intersection and the station as described.

An elevation has been determined.

A traverse connection was made to triangulation station RANGE ONE and the distance was found to be 175.447 meters.

DESCRIPTION OF TRIANGULATION STATION

2219

NAME OF STATION: TOWER ONE
CHIEF OF PARTY: C.R. Reed
Surface-station mark, Note,*
Underground-station mark, Note,*
Reference mark, Note,*
Reference mark, Note,*
Azimuth mark, Note,*
Witness mark, Note,*

STATE: North Carolina COUNTY: Pender
YEAR: 1947 LOCALITY: Holly Ridge

OBJECT	DISTANCE	DIRECTION	AZIMUTH
HAMPSTEAD 2	meters 0 00 00.0		
ATKINSON 1914 1932	105 23 13.9 -		
TOWER TWO	126 55 52.4 -		
ZERO	149 52 54.5 -		
Reference Mark No. 1	6.880	193 16 02	

Detailed description: The station is located about 7 miles south of Holly Ridge on the southwest end of Topsail Island. The mark is in a drill hole in the west corner of the roof of a concrete observation tower. It is 3.9 feet east of the west corner of the tower, 2.9 feet southeast of the northwest side and 2.8 feet southwest of the northeast side. The disk is stamped TOWER ONE 1947.

Reference Mark No. 1 is 25.57 feet east of the station and 2 feet east of the east corner of the tower in a drill hole in the concrete apron which runs around the foot of the tower. The disk is stamped TOWER ONE RM NO 1 1947.

Line mark two is 6.29 feet from the station in the direction of TOWER TWO. The disk is a standard reference mark disk stamped TWO.

Line mark zero is 13.36 feet from the station in the direction of ZERO. The disk is a standard reference mark disk stamped ZERO. Continued on card 2 of 2

Described by LET

Marked by LET

Note.—The initial direction must be to main sub-station. * Refer to pages 109 and 110, Special Publication No. 130, or to pages 112 and 113, Special Publication No. 145. † To nearest meter only, when no trigonometric leveling is being done.

To reach the station from the bridge at Sears Landing, go southeast toward the ocean for 0.5 mile, turn right and go 6.65 miles to a white concrete observatory tower about 50 yards on the right and the station as described.

A traverse connection was made to ZERO, the distance found to be 409.036 meters. An elevation has been determined.

RECOVERY NOTE, TRIANGULATION STATION

2203 R

NAME OF STATION: HAMPSTEAD
ESTABLISHED BY: C.D.M.
RECOVERED BY: C.R. Reed

STATE: North Carolina COUNTY: Pender
YEAR: 1932 LOCALITY: Holly Ridge
YEAR: 1947

Detailed statement as to the fitness of the original description: See p. 13
This station was found to have been moved. Probably when a tile drain for Topsail school was laid. The underground mark was searched for but could not be found. The disk was restamped and now reads HAMPSTEAD 2 1947. Reference Mark No. 1 has been destroyed, probably due to widening of the road. An Azimuth Mark was set to replace it. Reference Marks Nos. 2 and 3 were recovered in good condition and were used as Reference Marks for the new station after being restamped HAMPSTEAD 2 No. 2 1947 and HAMPSTEAD 2 No. 3 1947. To reach the station from the Post Office at Holly Ridge, go southwest on U.S. Highway 17 for 12.45 miles to the Azimuth Mark on the left. Continue 0.1 mile to Topsail School on the left and the station near the northeast end of a long metal garage at the rear.

DESCRIPTION OF TRIANGULATION STATION

2213

NAME OF STATION: HAMPSTEAD 2
CHIEF OF PARTY: C.R. Reed
Surface-station mark, Note* 1a
Underground-station mark, Note* 7a
Reference mark, No. 2, Note* 11a
Reference mark, No. 3, Note* 11a
Witness mark, Note* 11a
Height of light above station mark 33 meters.
Height of telescope above station mark 3 meters.

STATE: North Carolina COUNTY: Pender LOCALITY: Holly Ridge

DISTANCES AND DIRECTIONS TO REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THIS STATION

OBJECT	DISTANCE	DIRECTION	AZIMUTH
ATKINSON 1932	meters	0 00 00	
Reference Mark No. 3	37,006	191 53 53	
Asimuth Mark, Approx.	0.15 mi.	305 05 47	
Reference Mark No. 2	56,120	326 37 10	

Detailed description: The station is located in the Topsail Schoolyard about 19 miles northeast of Wilmington and 12 miles southwest of Holly Ridge. It is 79 feet east of the east corner of Topsail School and 25 feet northeast of the northeast end of a long metal garage. The mark projects about 8 inches and has been restamped HAMPSTEAD 2 1947.
Reference mark No. 3 is 121.41 feet west of the station, 3 feet east of the south corner of Topsail School and 2 feet southeast of the southeast wall of the school. The mark projects about 10 inches and the disk is stamped HAMPSTEAD 2 NO 3 1947.
Reference Mark No. 2 is 184.12 feet north of the station and about 100 yards east of U.S. Highway 17. The mark projects about 10 inches and the disk is stamped HAMPSTEAD 2 NO 2 1947.
The Asimuth Mark is approximately 0.15 mile north of the station, 52 feet southeast of the centerline of U.S. Highway 17 and 6 feet southeast of (continued on card 2 of 2)

Described by LET Marked by MV
Note.—The initial direction must be to main scheme station.
* Refer to pages 108 and 109, Special Publication No. 136, or to pages 112 and 113, Special Publication No. 145.
† To nearest listed only, when no trigonometric leveling is being done.

(continued from card 1 of 1) Powerline Pole No. 203. The Mark projects about 6 inches and the disk is stamped HAMPSTEAD 2 1947.
To reach the station from the Post Office in Holly Ridge, go southwest on U.S. Highway 17 for 12.45 miles to the Asimuth Mark on the left as described. Continue for 0.1 mile to Topsail School on the left and the station in the rear as described.

RECOVERY NOTE, TRIANGULATION STATION

4072 R

NAME OF STATION: HELIO
ESTABLISHED BY: USCGS YEAR: 1927 STATE: North Carolina
RECOVERED BY: H. F. Garber YEAR: 1950 COUNTY: Onslow
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:
Not recovered after a reasonable search. No description was available.
It is recommended the station be classified lost.

RECOVERY NOTE, TRIANGULATION STATION

4076 R

NAME OF STATION: HILT
ESTABLISHED BY: USCGS YEAR: 1927 STATE: North Carolina
RECOVERED BY: H. F. Garber YEAR: 1950 COUNTY: Onslow
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:
Not recovered. A search was made and it could not be found. It is recommended the station be classified lost.

RECOVERY NOTE, TRIANGULATION STATION

4109 R

NAME OF STATION: 274 (USE)
ESTABLISHED BY: U. S. E. YEAR: 1933 STATE: North Carolina
RECOVERED BY: H. F. Garber YEAR: 1950 COUNTY: Onslow
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:
Station recovered in good condition. New description follows:
Located approximately 1.0 miles SW of Swansboro, N. C., approximately 450 ft. of Beacon No. 49, 79.0 ft. S (outside) of LHWL.
Marked by a two inch iron pipe projecting 2 ft. above T.M.

RECOVERY NOTE, TRIANGULATION STATION

3996 R

NAME OF STATION: Beacon, (use)
ESTABLISHED BY: USCGS YEAR: 1933 STATE: North Carolina
RECOVERED BY: H. F. Garber YEAR: 1950 COUNTY: Onslow
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:
Destroyed.

RECOVERY NOTE, TRIANGULATION STATION

3997 R

NAME OF STATION: BEACON NO. 5
ESTABLISHED BY: C & G S. YEAR: 1933 STATE: North Carolina LOCALITY: Alligator Bay
RECOVERED BY: H. F. Garber YEAR: 1950 COUNTY: Onslow
Detailed statement as to the fitness of the original description: (No previous description)
Station destroyed. Beacon has been rebuilt in new location since date of triangulation.

RECOVERY NOTE, TRIANGULATION STATION

3998 R

NAME OF STATION: BH. 6
ESTABLISHED BY: CGS YEAR: 1932 STATE: North Carolina
RECOVERED BY: H. F. Garber YEAR: 1950 COUNTY: Onslow
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:
Station destroyed. Beacon moved.

RECOVERY NOTE, TRIANGULATION STATION

3999 R

NAME OF STATION: BEACON 7
ESTABLISHED BY: USCGS YEAR: 1933 STATE: North Carolina
RECOVERED BY: H. F. Garber YEAR: 1950 COUNTY: Onslow
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:
Recovered in good condition. Not previously described. Description follows: Station is located about 0.8 mile W of the W side of the inlet to Goose Bay, on the S side of the Intracoastal Waterway channel. Station is the light atop a black, square daymark with yellow border, on piles. Listed in the Light List, Intracoastal Waterway as Stump Sound Lt. 27.

RECOVERY NOTE, TRIANGULATION STATION

4001 R

NAME OF STATION: BN. 10
ESTABLISHED BY: CGS YEAR: 1933 STATE: North Carolina
RECOVERED BY: H. F. Garber YEAR: 1950 COUNTY: Onslow
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:
Station destroyed. Beacon moved.

RECOVERY NOTE, TRIANGULATION STATION

4006 R

NAME OF STATION: BOG
ESTABLISHED BY: USCGS YEAR: 1933 STATE: North Carolina
RECOVERED BY: H. F. Garber YEAR: 1950 COUNTY: Onslow
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:
Station not recovered. There is evidence of considerable erosion in this area, and it is believed that this station is lost.

RECOVERY NOTE, TRIANGULATION STATION

4035 R

NAME OF STATION: CHIEF
ESTABLISHED BY: CGS YEAR: 1927 STATE: North Carolina
RECOVERED BY: H. F. Garber YEAR: 1950 COUNTY: Onslow
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:
Station not described. A search was made at the plotted position and it could not be found. The shoreline has receded considerably since 1927 and it probably has been washed out.
It is recommended the station be classified lost.

RECOVERY NOTE, TRIANGULATION STATION

4169 R

NAME OF STATION: SWANSBORO, METHODIST CHURCH, SPIRE
ESTABLISHED BY: C & G S YEAR: 1933 STATE: North Carolina
RECOVERED BY: H. F. Garber YEAR: 1950 COUNTY: Onslow
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:
Station recovered in good condition. However, it is no longer used as a church and the building is falling into disrepair.
Located in Swansboro, N. C. on the W corner of Church and Elm Sts. Station is the apex of the spire on the S end of the church.

WATER TANK NEAR STATION QUEEN (Onslow County, N.C., C.&G.S., 1933; H.F.G., 1950) (No previous description)--Station was not recovered. There is no water tank in this area. It is recommended that this station be classified lost.

FULLARD (Onslow County, N.C., R.P.S., 1914)--Station is a high pole erected in the woods near Fullards Creek. It was not marked or occupied.

(H.F.G., 1950)--A search was made in the vicinity of the plotted position and the station could not be found.

BELL (Carteret County, N.C., J.S.H., 1908; H.F.G., 1950) (Previous description is on page 1)--Station and reference mark 1 were recovered in good condition. Reference mark 2 has been destroyed due to erosion. A revised description follows:

Station is located on the mainland, N of Bogue Inlet, approximately 1.5 miles E of Swansboro, 355 feet E of the S end of Hill Street, 128 feet E of the S end of a wire fence running N and S, 30 feet N of mean high-water line, 7.5 feet N of the center line of a 6-foot-wide road, and 20 feet SE of power pole No. 3. Station mark is a copper nail set in the top of a 4-inch terra cotta pipe instead of a disk as stated in the 1933 recovery note and it is 0.5 foot below ground.

Reference mark 1 is N of the station. It is a standard disk stamped "BELL 1908 1933 NUMBER 1."

BOGUE (Carteret County, N.C., J.S.H., 1908; H.F.G., 1933) (Previous description is on page 1)--Station and reference mark 1 (1933) were recovered in good condition. The 1933 description and sketch is adequate except that the oak tree mentioned no longer exists.

A 4- by 4-inch white witness post was set 3 feet N of the station.

BOGUE INLET, COAST GUARD, FLAGPOLE (Carteret County, N.C., K.T.A., 1927; H.F.G., 1950) (Previous descriptions are on pages 1 and 18)--Station was recovered in good condition. A new description follows:

Station is located at Bogue Inlet Coast Guard Station, approximately midway between the boat storage house and the lookout tower. It is the flagpole atop a steel skeleton tower, with an over-all height of approximately 65 feet.

DUDLEY (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 1)--Station was not recovered. The area has changed considerably and neither the description nor the accompanying sketch are adequate for present day recovery. A two-man party searched two hours for the station.

SEL (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 1)--Station was destroyed, according to the 1933 recovery note.

BANK (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 2)--Station and reference mark 1 (1933) were recovered in good condition. The 1933 description is adequate.

A 4- by 4-inch white witness post projecting 3 feet was set 3 feet N of the station.

BOGUE SOUND BEACON 25 (Onslow County, N.C., C.&G.S., 1933; H.F.G., 1950) (Previous description is on page 2)--Station was destroyed. The beacon was moved.

BOGUE SOUND BEACON 27 (Onslow County, N.C., C.&G.S., 1933; H.F.G., 1950) (Previous description is on page 2)--Station was recovered in good condition. It was not previously described. A new description follows:

Station is located approximately 1 mile SW of Swansboro, on the S side of the Intracoastal Waterway. It is a three pile, white slatted structure, surmounted by a black tank house, approximately 16 feet high, with light on top.

Light List of the Intracoastal Waterway of the United States, 1949 edition, lists this light as BOGUE SOUND LIGHT 49. According to this publication, the light was last rebuilt in 1931.

BOGUE SOUND BEACON 27C (Onslow County, N.C., C.&G.S., 1933; H.F.G., 1950) (No previous description)--Station was recovered in good condition. According to the Light List, Intracoastal Waterway of the United States, 1949 Edition, this light was last rebuilt in 1932. It is listed as SAUNDERS CREEK LIGHT 55. Description follows:

Station is located approximately 1.5 miles N of Bear Inlet, on the S side of the Intracoastal Waterway at the junction of Saunders Creek. It is a three pile, white slatted structure, 16 feet high, surmounted by a black tank house, light on top.

BOGUE SOUND BEACON NO. 29 (Onslow County, N.C., H.O., 1933; H.F.G., 1950) (Previous description is on page 2)--Station was destroyed. The beacon was rebuilt.

BOGUE SOUND BEACON NO. 29B (Onslow County, N.C., 1933; H.F.G., 1950) (No previous description)--Station was destroyed. The light was rebuilt in 1942.

HAWK (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 2)--Station and reference mark were recovered in good condition. The description is no longer adequate.

A new description follows:

Station is located on an island due S of Shell Landing and S of the spoil bank of the Intracoastal Water, in an abandoned field near the center of the island, 25 feet N of an animal pen, 110 feet E of two lone pines, and 100 feet W of two pines.

Station mark is a standard disk set in concrete in the top of a tile. It is not stamped.

Reference mark 1 is NW of the station. It is a standard reference disk, stamped "HAWK 1 1933," and set in the top of a 10-inch tile projecting 3 inches above ground.

HUGGINS ISLAND (U.S.E.) (Onslow County, N.C., H.O., 1933; H.F.G., 1950) (Previous description is on page 2)--Station was destroyed. The monument was found broken off and the disk removed. The remainder of the monument is firmly in place. A revised description follows:

Station is located on the N shore of Huggins Island, approximately 325 feet SE of a house in ruins, 225 feet W of the E end of the island, 7 feet SW of the mean high-water line, and 3 feet SW of a 2-foot bank representing storm high-water line.

A 4- by 4-inch white witness post projecting 2 feet above ground was set 3 feet N.

224 (U.S.E.) (Onslow County, N.C., H.O., 1933; H.F.G., 1950) (Previous description is on page 2)--Station was not recovered. The island on which this station was located is small and a thorough search was made without success.

The description is inadequate for further search.

QUEEN (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 2)--Station and reference marks were recovered in good condition. Distances to reference marks were measured and found to be correct. The original description is no longer adequate. A new description follows:

Station is located approximately 1.2 miles SW of Swansboro, on the Intracoastal Waterway, approximately 0.2 mile W of Beacon No. 49, 100 feet SE of the SE corner of a two-story frame red roofed house, and N of the mean high-water line.

Reference mark 2 is 93.122 meters NW of the station.

Reference mark 3 is 1/2 mile NW of the station.

Reference mark 4 is 63.140 meters NE of the station.

The old reference mark is 3.935 meters SE of the station.

To reach the station from the schoolhouse in Swansboro, travel NW 0.6 mile to a cross road, turn left (SW) and proceed 1.1 miles to cross road, turn left (S) and proceed 1.0 mile to the road end and station.

The disk is stamped "1914 1932," not "1933."

RUSS 2 (Onslow County, N.C., H.O., 1933; H.F.G., 1950) (Previous description is on page 2)--Station and reference mark 1 were not recovered. Reference mark 2 was recovered in condition. Pieces of tile and concrete were found in the approximate position of the station, and it is believed to have been destroyed. An approximate distance of reference mark 1 was ascertained but after a reasonable search, it could not be found. A new description of reference mark 2 follows:

It is located on the W side of Huggins Island, approximately 800 feet S of the N end, 20 feet SW of the edge of an abandoned field, in heavy brush and trees, and approximately 700 feet W of a house. Mark is a standard disk, stamped "2 RUSS 1933," and set in an 8-inch tile projecting 6 inches above ground.

A 4- by 4-inch white witness post was set 3 feet N of the reference mark.

BOGUE SOUND BEACON NO. 24 (Onslow County, N.C., H.O., 1933; H.F.G., 1950) (Previous description is on page 2)--Station was destroyed. The light was rebuilt in 1944.

BEACH (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 3)--Station was recovered in good condition. The 1933 description is adequate.

A 4- by 4-inch white witness post projecting 3 feet was set 3 feet N of the station.

BEAR (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 3)--Station and reference mark (1914) SE were recovered in good condition. The 1933 description is adequate with the following additions: 45.0 feet E of the last patch of scrub oak on the point.

A white 4- by 4-inch witness post projecting 3 feet above ground was set 3 feet N of the station.

HAMMOCK (Onslow County, N.C., A.S.W., 1855; H.F.G., 1950) (Previous description is on page 3)--Station was recovered in good condition. The 1933 description is adequate with the following additions:

To reach station, land at partially ruined pier and proceed due S to the S side of the hammock and the station at the edge of the marsh.

SAUNDERS (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 3)--Station and reference mark were recovered in good condition. A revised description follows:

Station is located approximately 1.5 miles N of Bear Inlet, on the N bank of the Intracoastal Waterway, approximately 350 feet NW of Light 56, 500 feet W of Saunders Creek, and 100 feet NE of a shell beach.

Station mark is a standard disk, stamped "SAUNDERS 1914 1933," and set in concrete in a 12-inch tile, projecting 3 inches above ground.

Reference mark 1, 1933, is SW of the station and 10.0 feet N of the mean high-water line. It is a standard disk, stamped

(Continued on page 26)

SAUNDERS (continued)

"SAUNDERS NO 1 1933," and set in the top of a 12- by 12-inch concrete monument projecting 2 inches above ground.

CAMP (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 4)--Station and reference mark were found. The 1933 recovery states "it has been washed away". It is recommended that the station be classified as lost.

CAMP 2 (Onslow County, N.C., H.O., 1933; H.F.G., 1950) (Previous description is on page 4)--Station and the top portion of the station monument have been destroyed. Only the butt of the monument remains. Reference mark 1 was not recovered and it is probably destroyed due to shore erosion. Reference mark 2 was recovered as described in good condition.

INLET (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 4)--This station was reported destroyed in the 1933 recovery note.

INLET 2 (Onslow County, N.C., H.O., 1933; H.F.G., 1950) (Previous description is on page 4)--Station and underground marks were found destroyed by shore erosion. The monuments were found lying in the water's edge. Reference marks 1 and 2 were recovered in good condition as described. A witness post was set 2 feet N of reference mark 2.

MEADOW (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 4)--Station and reference mark 1 (1933) were recovered in good condition. The description is inadequate. A new description follows:

Station is located on the N shore of an island-studded bay (first S of Bear Creek), approximately 300 feet N of the Intracoastal Waterway, 250 feet NW of a small shell island in the bay, and approximately 120 feet E of a ruined pier.

Three 2- by 2-inch oak stakes, with nails in the top of each stake are driven in line from the station to the water.

Station mark is a standard disk set in a 10- by 10-inch block of concrete. A reference mark was established.

Reference mark 1 is a standard disk set in an 8-inch tile filled with cement. The top of the tile projects 4 inches above ground surface. It is S 50 meters from a lone 4-trunk tree with triangular blaze on the S trunk with three nails. Reference mark 2 is SE 53.545 meters (175.665 feet) from the station mark, and N approximately 8 meters from high-water line.

MILL (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 4)--Station was recovered in poor condition. The disk has been removed and part of the concrete filling the tile has been dug out. However, the tile is still solidly set and is flush with the ground.

Reference mark 1 1914 was recovered in good condition. Reference mark 2 1933 could not be found after a reasonable search by a two-man party. However, it is believed to be in position, a further search being deemed impracticable at this time. The original description is adequate except "inside route canal" should read "Intracoastal Waterway."

BROWN (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 5)--Station was not recovered. This station could not be found in 1927 and 1933. It is recommended that it be classified as lost.

BROWN 2 (Onslow County, N.C., H.O., 1933; H.F.G., 1950) (Previous description is on page 5)--Station and reference mark were recovered in good condition. The description is adequate. A witness post was set 2 feet N of the station.

EAGLE (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 5)--Station and reference marks were recovered in good condition. Revised description follows:

Station is located approximately 1,500 feet NNW of the Intracoastal Waterway, on property of the U.S. Marine Corps, Camp Lejeune. It is best reached from Highway 172 at the entrance to the anti-tank firing range. From the entrance to the anti-tank firing range, proceed 0.4 mile SSE down a sand road to the E end of the range. From this point there is a wide fire lane leading SE to the marsh edge. Follow this fire lane 0.35 mile to the station located in the SE corner of a small clearing on the SW side of the fire lane. Station is 16 meters SW of the center line of the lane and 1 foot underground. Reference mark 1 (old 1914) was recovered in good condition as described. Reference mark 2, 1933, is NW of the station on the NW edge of the small clearing in the edge of woods.

FIG (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 5)--Neither station nor reference mark was recovered. A two-hour search by two men revealed no evidence of the monuments. The station site and surrounding area is now used as a target range for heavy artillery. It is recommended that the station be classified as lost.

STILL (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 5)--Station and reference marks were recovered in good condition. A revised description follows:

Station is located approximately 1,500 feet NW of the Intracoastal Waterway, in a clump of pine trees, on property belonging to the U.S. Marine Corps, Camp Lejeune. It is best reached from State Highway 172 at the entrance to the anti-tank firing range (marked by U.S. Marine Corps sign). From this entrance, follow the sand road SE 0.4 mile to the SE edge of the range. At this point, follow sand road E 0.5 mile and turn NE. Follow this

meandering road 0.35 mile to station site. It is 9 meters W of the center line of the road and 20 meters NW of the last sharp curve where the road turns NE. This curve is about 0.4 mile W of Still Point.

CEDAR (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 6)--Station and reference mark were recovered in good condition. The previous description is inadequate. A new description follows:

To reach the station from the intersection of State Highway 172 and the Onslow Beach Road, travel S on Beach road across the Intracoastal Waterway bridge and onto Onslow Beach for 1.7 miles. Go E along beach for 2.2 miles to station site. Station is located on a low sand dune, 310 feet N of the mean high-water line on the ocean side, 245 feet S of a marsh canal, in line with a yellow tower N of the Intracoastal Waterway Canal, and 75 feet N of an abandoned telephone line.

Station mark is a standard disk set in a 6-inch concrete-filled tile projecting 5 inches above ground.

Witness mark is a 4- by 4-inch wooden post projecting 18 inches above ground and 2 feet N of the station.

FREE (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 6)--Station mark and reference marks 2 and 4 were recovered in good condition. Reference mark 3 was not recovered. The 1914-1933 description is inadequate. A new description follows:

To reach the station from the intersection of State Highway 172 and Onslow Beach Road, travel 2.1 miles E along State Highway 172 to a dirt road S. Travel 0.9 mile S along the dirt road to the station site. It is located in a cleared field, 100 feet W of the road, and 150 feet N of the woods line.

Station mark is a standard disk set in concrete 4 inches below the surface of the ground.

A 4- by 4-inch wooden witness post projects 18 inches above ground and is set 2 feet N of the station.

HURST (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 6)--Station was not recovered. A search of two hours was made by a three-man party. The reference mark was recovered. The previous description for the recovery of the reference mark is adequate with the following addition: It is located approximately 1.5 miles ENE of the Pontoon Bridge across the Intracoastal Waterway canal, 600 feet N of the mean high-water line of canal, and 11.4 feet E of a N-S fence line.

Reference mark is a standard reference disk set in a 6-inch concrete-filled tile pipe projecting 6 inches above ground.

Witness mark is a 4- by 4-inch wooden post 2.5 feet N of the station, and projecting 2 feet above ground.

PIVER (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 6)--Station was recovered in good condition. Reference mark was not recovered. It is believed to have been destroyed by erosion. The previous description is inadequate. A new description follows:

To reach the station from the intersection of State Highway 172 and Onslow Beach Road, travel S along Beach Road across the Intracoastal Waterway Bridge and onto Onslow Beach. Go E along the sand ridge which separates the ocean and the marsh, 2,300 feet ENE of a concrete pillbox built in the sand ridge along the ocean side, 212 feet N of the ocean mean high-water line, 200 feet S of the S edge of the marsh, 102 feet N of an abandoned telephone line. Station mark is a standard disk set in an 8-inch concrete-filled tile projecting 12 inches above ground.

Station is witnessed by a 4- by 4-inch wooden post projecting 4 feet above ground and 3 feet N of the station.

POINT (Onslow County, N.C., R.P.S., 1914; E.R.McC., 1950) (Previous description is on page 6)--Station and reference mark were recovered in good condition. The previous description is adequate with the following additions: To reach the station from the intersection of State Highway 172 and the Onslow Beach Road, travel S along the Beach Road for 1.1 miles to a sand road E, take this road E for 0.3 mile to road intersection, go S along the road to the Intracoastal Waterway Canal, thence walk E along the canal for approximately 0.5 mile to a prominent point of woods and station site. Station is located 25 feet N of the mean high-water line at the SE edge of the point of woods.

WINDY (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 6)--Station was not recovered. It was probably destroyed by shifting sand dunes.

HORSEHEAD (Onslow County, N.C., A.W.S., 1855; E.R.McC., 1950) (Previous description is on page 7)--Station was not recovered. The 1914 description is inadequate. A one-hour search was made by two men and no evidence of the station could be found. It is recommended that this station be classified as lost.

LOW (Onslow County, N.C., R.P.S., 1914; E.R.McC., 1950) (Previous description is on page 7)--Station was not recovered. A thorough search was made to no avail. It is believed that the station was destroyed by erosion.

It is recommended that the station be classified as lost.

PINE (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 7)--Station and reference marks were recovered in good condition. The previous description is adequate with the following addition. To reach the station from the intersection of Onslow Beach Road and State Highway 172, travel 1.4 miles along Onslow Beach Road to the bridge across the Intracoastal Waterway canal and station site. It is located 379.0 feet N of the N end of the bridge, 215.2 feet E of the center line of Beach Road, 25.5 feet E of a 12-inch cedar tree (the only one in the vicinity).

Station mark is a standard disk, unstacked, and set in a 6-inch

(Continued on page 27)

PINE (continued)

concrete-filled tile pipe projecting 3 inches above ground.
 Witness mark is a 4- by 4-inch wooden post set 2 feet N of the station and projecting 18 inches above the ground.

SANDY (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 7)--Station was recovered in good condition. The 1914 description is inadequate. A new description follows:

To reach from the intersection of State Highway 172 and Onslow Beach Road, travel S on Onslow Beach Road for 1.7 miles across the bridge over the Intracoastal Waterway to the intersection of a sand road, go E along the sand road for 0.45 mile to the station site. Station is located on the top of a high sand dune, 80 feet S of the center line of the sand road, 300.2 feet E of the NE corner of a green stucco bathroom, 200 feet SE of the intersection of the main road and a field road N, and 24 feet N of the mean high-water line.

Station mark is a standard disk set in a 6-inch concrete-filled tile pipe projecting 5 inches above ground.

Witness mark is a 4- by 4-inch white wooden post, set 2 feet N of the station, and projecting 18 inches above ground.

WEEK (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 7)--Station and reference marks were recovered in good condition. The previous description is adequate with the following additions:

To reach the station from the intersection of State Highway 172 and Onslow Beach Road, travel S on Beach Road for 1.1 miles to the sand road E. Go E along the sand road for 0.3 mile to a road intersection, thence S along sand road to the bank of the Intracoastal Waterway Canal and the station site. It is located approximately 225 feet N of the mean high-water line and 30 feet W of the road.

BAKER (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 8)--Station and reference mark were recovered in good condition. The previous description is adequate with the following addition:

To reach the station from the intersection of State Highway 172 and Mockup Road, travel S one mile along Mockup Road to a cleared field and the station site. It is located approximately 1,200 feet N of the Intracoastal Waterway Canal, 207.4 feet E of the center line of the road.

Station mark is a standard disk, stamped "BAKER 1933," and set in a 12-inch concrete-filled tile pipe projecting 6 inches above ground.

Witness mark is a 4- by 4-inch wooden post 2 feet N of the station and projecting 18 inches above ground.

CROSS (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 8)--Station was not recovered. It was reported destroyed in 1933.

GILLETTS CREEK (Onslow County, N.C., A.S.W., 1855; H.F.G., 1950) (Previous description is on page 8)--Station was not recovered. A search was made and it could not be found. It is recommended that the station be classified as lost.

PASS (Onslow County, N.C., R.P.S., 1914; E.R.McC., 1950) (Previous description is on page 8)--Station was not recovered. A detailed search was made by two men. In the immediate vicinity, there has been considerable erosion. It is recommended that the station be classified as lost.

SNAG (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 8)--Station was not recovered. The 1933 description reported the station as lost. A thorough search was made to no avail. It is recommended that the station be classified as lost.

SWAMP (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 8)--Station and reference marks were not recovered after a detailed search by three men. The area is heavily wooded, the field and road referred to in the 1933 description having been allowed to overgrow are no longer recognizable on the ground.

BAY (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 9)--Station and reference marks were recovered in good condition. The previous description is adequate with the following additions:

Station is located on the property of Camp Lejeune (U.S.M.C.) on the N edge of Salliers Bay, in marsh, 1,200 feet W of the mouth of Holover Creek, 328.0 feet S of the woods line, 20.0 feet W of a small slough, and 30 feet N of the mean high-water line of the Bay.

Station mark is a standard disk, unstamped, and set in the top of an 8-inch concrete-filled tile pipe projecting 5 inches above ground.

Witness mark is a 4- by 4-inch wooden witness post set 2.0 feet N and projecting 18 inches above ground.

BRIER (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 9)--Station was not recovered. A thorough search of one hour was made by a three-man party. It is recommended that the station be classified as lost.

CRAG (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 9)--Underground mark was recovered. Station mark and reference mark were destroyed. Previous description

is inadequate. A new description follows:

Station is located on the property of Camp Lejeune (U.S.M.C.) on Crag Point. To reach from the intersection of Onslow Beach Road and State Highway 172, travel W along Highway 172 for 2.0 miles to a sand road S (left), take sand road for 1.4 miles to a cluster of large oak trees and road fork. Take left fork for 0.5 mile to a large cleared field and station site. Station is located 240.1 feet NE of the SW corner of the woods, 210 feet SE of the NW corner of the woods, and 84.3 feet E of the center line of the sand road.

Station mark is a standard disk, unstamped, and set in a 6-inch concrete-filled tile pipe 3 feet below the surface of the ground.

DUCK CREEK (Onslow County, N.C., C.D.M., 1932; E.R.McC., 1950) (Previous description is on page 9)--Station and reference marks were recovered in good condition. The 1932 description is inadequate. A new description follows:

To reach from the intersection of State Highway 172 and Onslow Beach Road, travel SE along State Highway for 0.5 mile to an improved sand road leading W, travel W along the sand road for 0.7 mile to the station site. It is located on what is known locally as Frank Dennis' property but is now owned by U.S. Government (Camp Lejeune), in a clump of trees along the SE side of a cleared field, 36 feet N of the center line of the road, 214 feet SSE of the foundation ruins of Frank Dennis' house.

Reference mark 1 is N of the station at the SW corner of the foundation ruins of Frank Dennis' house.

Reference mark 2 is SE of the station in cut-over timber land, 45 feet S of the center line of the road.

Reference mark 3 is approximately 0.25 mile W of the station on the N edge of a small cleared field, 188.4 feet N of the center line of the road leading past the station.

HENDERSON (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 9)--Station was not recovered. It was reported as "probably destroyed when the new waterway was cut" in 1933.

It is recommended that the station be classified as lost.

HIGH (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 9)--Station was not recovered. The description states that it was not marked. It is recommended that this station be classified as lost.

NORTHEAST BASE (Onslow County, N.C., R.P.S., 1914; E.R.McC., 1950) (Previous description is on page 9)--Station was not recovered. It was marked by a 4- by 4-inch pine post in 1914. A one-hour search by two men was made and no evidence of its existence could be found. It is recommended that the station be classified as lost.

SEA (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 9)--Station was recovered in good condition. The previous description is inadequate. A new description follows:

To reach from the intersection of State Highway 172 and the Onslow Beach Road, travel 1.7 miles S on Onslow Beach Road across the pontoon bridge over the Intracoastal Waterway Canal to an intersecting sand road, and go W along the sand road 2.0 miles to the station site.

Station is located on top of a high sand dune, 298 feet SW of an unnumbered telephone pole, 220.7 feet S of another telephone pole, 200 feet N of the mean high-water line, and 190 feet S of the center line of a sand road which parallels the telephone line.

Station mark is a standard disk, stamped "SEA," and set in a 6-inch concrete-filled tile pipe projecting 6 inches above ground.

Witness mark is a 4- by 4-inch wooden post, 2 feet N of the station, and projecting 18 inches above ground.

SHELL (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 9)--Station was not recovered. A detailed search was made to no avail. It is recommended that the station be classified as lost.

SOUTHWEST BASE (Onslow Co., N.C., R.P.S., 1914; E.R.McC., 1950) (Previous description is on page 9)--Station was not recovered. The station was marked by a 4- by 4-inch pine post in 1914. A thorough search was made but no evidence of the station could be found. It is recommended that the station be classified as lost.

TIE (Onslow County, N.C., R.P.S., 1914; E.R.McC., 1950) (Previous description is on page 9)--Station was not recovered. It is believed that it was destroyed due to excavation in the immediate area. It is recommended that the station be classified as lost.

VIM (Onslow County, N.C., A.P.R., 1932; E.R.McC., 1950) (Previous description is on page 9)--Station was recovered in good condition. The previous description is inadequate. A new description follows:

To reach the station from the intersection of State Highway 172 and the Onslow Beach Road, travel 1.7 miles S on Onslow Beach Road across the bridge over the Intracoastal Waterway Canal to an intersecting sand road, travel 2.55 miles W on sand road to station site. It is located approximately 225 feet inshore from the main ridge of sand dunes, and on the summit of the W of two prominent dunes, 81.0 feet W of the sand road which separates the two sand dunes, and 73.2 feet SW of a telephone pole.

Station mark is a standard disk, stamped "VIM 1914," and set in an 8-inch concrete-filled tile pipe projecting 5 inches above ground.

Witness mark is a 4- by 4-inch white wooden post, 2 feet N of the station, and projecting 18 inches above ground.

WILLIAMS (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 9)--Station and reference mark were recovered in good condition. The previous description is inadequate. A new description follows:

Station is located on the property of Camp Lejeune (U.S.M.C.) on the N side of the Intracoastal Waterway Canal, in woods line at the N edge of the marsh, approximately 3.0 miles NE of New River Inlet, approximately 2.0 miles W of the Onslow Beach Road Pontoon Bridge which crosses the Intracoastal Waterway Canal, and 424.0 feet N of the mean high-water line of the canal.

Station mark is a standard disk, unstamped, and set in a 6-inch concrete-filled tile pipe projecting 3 inches above the ground.

Witness mark is a 4- by 4-inch wooden post, 2.0 feet N of the station, and projecting 18 inches above ground.

AMOS (Onslow County, N.C., A.P.R., 1932; H.F.G., 1950) (Previous description is on page 10)--Station was recovered in good condition. The 1932 description is inadequate. A new description follows:

To reach from the intersection of State Highway 172 and Onslow Beach Road, travel 1.7 miles S on Beach Road across the bridge over Intracoastal Waterway Canal to an intersecting sand road. Travel 4.5 miles W along the sand road to the station site. It is located on the summit of a dune which is N of the sand ridge which parallels the ocean, 141 feet SE of a telephone line, 82 feet SE of the sand road, 220 feet N of the mean high-water line, 100 feet S of myrtle bushes on the edge of the marsh, and approximately 0.6 mile NE of New River Inlet.

Reference mark 1 is believed lost due to erosion.

Reference mark 2, located NE of the station, was recovered in good condition.

Station mark is a standard disk, stamped "AMOS 1932," and set in concrete in the top of a tile pipe embedded 5 inches below the surface of the ground.

Witness mark is a 4- by 4-inch wooden post, 2 feet N of the station, and projecting 18 inches above the ground.

CEDAR POINT (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 10)--Station and reference mark were recovered in good condition. The previous description is adequate with the following additions:

Station is located on the SE side of a small point known locally as "Shell Point," approximately 1,100 feet E of Cedar Point on the N bank of Howard Bay, 13.2 feet N of the mean high-water line, and in the edge of the woods.

Station mark is a standard disk, unstamped, and set in a 12-inch concrete-filled tile pipe projecting 12 inches above ground.

A 4- by 4-inch wooden witness post projecting 18 inches was set 2 feet N.

FISH (Onslow County, N.C., A.P.R., 1932; H.F.G., 1950) (Previous descriptions are on pages 10 and 19)--Station and reference mark 2 were recovered in good condition. Reference mark 1 was found lying on its side.

The 1947 description is adequate with the following addition:

Witness mark is a 4- by 4-inch wooden witness post, 2 feet S of the station, and projecting 18 inches above the ground.

GRANT (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous descriptions are on pages 10 and 20)--Station and reference marks 1 and 2 were recovered in good condition. The original description is adequate.

LIGHTER (Onslow County, N.C., A.S.W., 1855; H.F.G., 1950) (Previous description is on page 10)--Station was not recovered. A thorough search of one hour was made by a three-man party. It is recommended that the station be classified as lost.

LOG (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous descriptions are on pages 10 and 19)--Station was lost. The mark was found lying in the sand and out of position. Reference mark 1 could not be found and is believed to be lost. Reference mark 2 was found in good condition. Witness mark is a 4- by 4-inch wooden post, 2 feet N of the station, and projecting 18 inches.

NORTH BASE (U.S.E.) (Onslow County, N.C., A.P.R., 1932; H.F.G., 1950) (Previous description is on page 10)--Station was recovered in good condition. The previous description is inadequate. A new description follows:

Station is located 0.8 mile SE of the E end of Peru Road, 0.5 mile SW of Cedar Point, on the W side of the channel of New River Inlet, 75 feet S of New River Inlet Light No. 5, and 12.2 feet E of the mean high-water line.

Station mark is a standard U.S.E. disk, unstamped, set in the center of a 3- by 3 foot concrete monument, and set on five 2-inch pipes projecting 5 feet above mean high-water line.

PAVILION (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 10)--Station was not recovered after a thorough search. It is recommended that this station be classified as lost.

SMITH'S HOUSE, CUPOLA (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 10)--Station was destroyed. The property is now owned by Camp Lejeune (U.S.M.C.) and the house has been torn down.

SOUTH BASE (U.S.E.) (Onslow County, N.C., A.P.R., 1932; H.F.G., 1950) (Previous description is on page 10)--Station was not recovered. The previous description is inadequate. A thorough one-hour search was made by a three-man party and the station could not be found. It is recommended that the station be classified as lost.

SWAN POINT (U.S.E.) (Onslow County, N.C., U.S.E., 1914; H.F.G., 1950) (Previous descriptions are on pages 10 and 19)--Station was destroyed. The remains of the station were found lying on the beach. The reference mark was not recovered. It is believed to have been destroyed, since there has been considerable erosion in the immediate vicinity.

SWAN POINT ECCENTRIC (Onslow County, N.C., C.D.M., 1932; H.F.G., 1950) (Previous descriptions are on pages 10 and 19)--Station was not recovered. Reference marks 1 and 2 were recovered in good condition. The distance was measured from the reference marks and a house has been built over the station. The 1947 description is adequate with the following additions:

Reference mark 1 is located 208.2 feet N of the center line of the road, 100.4 feet N of the SW corner of the new house.

Reference mark 2 is 88.0 feet E of the SE corner of the house.

TILE (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 10)--Station was not recovered after a detailed search by two men. It is recommended that this station be classified as lost.

VIEW (Onslow County, N.C., A.P.R., 1932; H.F.G., 1950) (Previous descriptions are on pages 10 and 19)--Station and reference marks 1 and 2 were recovered in good condition. The 1947 description is adequate.

A 2- by 4-inch wooden post witnesses the station. It is 2 feet N and projects 5 feet above ground.

WRECK (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 10)--A detailed search was made and the station could not be found. The shoreline has receded considerably since the 1926 recovery and the station is believed to have been washed out.

It is recommended that this station be classified as lost.

WRIGHT'S ISLAND (U.S.E.) (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 10)--Station was not recovered. A search was made and it could not be found. It is recommended that the station be classified as lost.

BETHEA (Onslow County, N.C., C.D.M., 1932; H.F.G., 1950) (Previous descriptions are on pages 11, 20, and 21)--Station and reference marks were recovered in good condition. The distances to the reference marks were measured and found to be correct. The 1947 description is adequate.

CRAB (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous descriptions are on pages 11 and 20)--Station was recovered in good condition. The 1947 description is adequate.

Witness mark is a 4- by 4-inch wooden post, 2 feet S, and projecting 2 feet above ground.

The observing stand used in 1947 was found intact.

GOOSE BAY (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 11)--Station recovered in poor condition. The water line of Goose Bay has reached the base of the station and the earth is washing away. The station may be washed out in the near future. The 1914, 1933 description is adequate.

GRANT (Onslow County, N.C., C.D.M., 1932; H.F.G., 1950) (Previous descriptions are on pages 11 and 20)--Station and reference marks 1, 2, and 3 were recovered. Station mark and reference marks 2 and 3 are in good condition. Reference mark 1 is resting on an angle as stated in the 1947 recovery. The 1947 description is adequate with the following addition. Station is 65 feet SW of the main dirt road which is State Highway 301.

Witness mark is a 4- by 4-inch wooden post set 2 feet E and projecting 2 feet above ground.

GROVE (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 11)--Station was not recovered. Reference mark was recovered in good condition. The distance to the station was measured and the blazed pine tree mentioned in the description was found but the station was not. The 1914 description is adequate for the recovery of the reference mark.

HOBBS (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 11)--Station was recovered in good condition. The reference mark could not be found after a detailed search. The 1914-1932 descriptions are correct.

Station may be reached by land. From the Folkstone Post Office, travel 2.6 miles E on the dirt road to road right (S). Proceed 2.6 miles to the end of the road and station site.

Witness mark is a 2-inch pipe, 1 foot W, and projecting 3 feet above the marsh.

KING (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 11)--Station was destroyed. The mark was found lying overturned in the marsh. The disk had been removed.

MUSH (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous descriptions are on pages 11 and 20)--Station was recovered in good condition. The 1947 description is adequate.

Witness mark is a 4- by 4-inch wooden post, 1 foot E, and projecting 2 feet above ground.

PED (Onslow County, N.C., J.A.B., 1933; H.F.G., 1950) (Previous descriptions are on pages 11 and 21)--Station and reference mark 1 (Continued on page 29)

PED (continued)
 were recovered in good condition. The 1947 description is adequate except that the station is located in Onslow County, not Fenner. Reference mark 2 is leaning.
 Witness mark is a 4- by 4-inch wooden post, 2 feet NE, and projecting 2 feet above ground.

 ROGER (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 11)--Station was not recovered after a detailed search. As it was not recovered in 1926 and 1933, it is recommended that this station be classified as lost.

 ROUGH (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 11)--Station could not be found after a detailed search. There are shifting sand dunes in this vicinity and the station, if still in existence, is probably covered. It is recommended that this station be classified as lost.

 STUMP (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 11)--Station was not recovered after a detailed search. As it was not recovered in 1926 and 1933, it is recommended that this station be classified as lost.

 BANKS (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous descriptions are on pages 12, 18, and 21)--Station and reference mark were recovered in good condition. The distance to the reference mark was found to be correct. The 1947 description is adequate except that the station is located in Onslow County, not Fenner.

 SPY (Onslow County, N.C., R.P.S., 1914; H.F.G., 1950) (Previous description is on page 12)--Station was not recovered. It is believed to be covered by shifting sand. As it was not recovered in 1926 and 1933, it is recommended that this station be classified as lost.

 CAMP DAVIS TANK NO. 1 (Onslow County, N.C., H.C.A., 1943; H.F.G., 1950) (Previous description is on page 17)--Station was destroyed. The tank has been dismantled.

 CAMP DAVIS TANK NO. 2 (Onslow County, N.C., H.C.A., 1943; H.F.G., 1950) (Previous description is on page 17)--Station was destroyed. The tank has been dismantled.

 CAMP DAVIS TANK NO. 3 (Onslow County, N.C., H.C.A., 1943; H.F.G., 1950) (Previous description is on page 17)--Station was destroyed. The tank has been dismantled.

 CAMP DAVIS TANK NO. 4 (Onslow County, N.C., H.C.A., 1943; H.F.G., 1950) (Previous description is on page 17)--Station was destroyed. The tank has been dismantled.

 3-(3-4) (U.S.E.) (Onslow County, N.C., U.S.E., 1933; H.F.G., 1950) (Previous description is on page 17)--Station was not recovered. A thorough search was made but it could not be found.

 3-3-151 (U.S.E.) (Onslow County, N.C., U.S.E., 1933; H.F.G., 1950) (Previous description is on page 17)--Station was recovered in good condition. No description was available. Description follows:
 Station is located about 5 miles W of New River Inlet, in the Intra-coastal Waterway, on the W side of Alligator Bay. It is 90 feet W of the point of land and 14 feet N of the high water line of the Intra-coastal Waterway.
 Station mark is a standard U.S.E. disk, stamped "151," and set in a 6-inch concrete-filled tile projecting 4 inches above ground.

 3-3-182 (U.S.E.) (Onslow County, N.C., U.S.E., 1933; H.F.G., 1950) (Previous description is on page 17)--No description was available. A thorough search was made by two men in the vicinity of the plotted position but the station could not be found.

 3-3-216+ (U.S.E.) (Onslow County, N.C., U.S.E., 1933; H.F.G., 1950) (Previous description is on page 17)--Station was recovered in good condition. The previous description is not available. A complete description follows:
 Station is located on the N bank of the Intra-coastal Waterway and the E shore of Goose Bay, 59 feet E of the mean high-water line of Goose Bay, 13.2 feet N of the mean high-water line of the Intra-coastal Waterway.
 Station mark is a standard U.S.E. disk, unstamped, and set in a 6-inch round concrete-filled tile projecting 4 inches.

 3-3-247+ (U.S.E.) (Onslow County, N.C., U.S.E., 1933; H.F.G., 1950) (Previous description is on page 17)--Station was destroyed. The mark was found lying on its side.

 3-4-8+ (U.S.E.) (Onslow County, N.C., U.S.E., 1933; H.F.G., 1950) (Previous description is on page 17)--Station was not recovered. A thorough search was made by two men, but station could not be found.

 3-4-140+ (U.S.E.) (Onslow County, N.C., U.S.E., 1933; H.F.G., 1950) (Previous description is on page 17)--Station was destroyed. The remains were found lying on the ground.

 SWAN POINT 2 (Onslow County, N.C., W.C.H., 1888; H.F.G., 1950) (Previous description is on page 17)--Station was not recovered. A thorough search of one hour was made by a three-man party but the station could not be found. It is recommended that this station be classified as lost.

 LOG 2 (Onslow County, N.C., C.R.R., 1947; H.F.G., 1950) (Previous description is on page 19)--Station and reference marks were recovered in good condition. The 1947 description is adequate, with the following additions:
 Station is witnessed by a 7-inch round wooden post, 2 feet SE, and projecting 2 feet above ground.
 Reference mark 2 is witnessed by a 4- by 4-inch wooden post, 1 foot SW, and projecting 2 feet above ground.
 Reference mark 3 is witnessed by a 7-inch round wooden post, 2 feet W, and projecting 30 inches above ground.

 RANGE THREE (Onslow County, N.C., C.R.R., 1947; H.F.G., 1950) (Previous description is on page 19)--Station was recovered in good condition. The observation tower is lying on its side and is in partial ruins. Otherwise, the description is adequate.

 TOWER NINE (Onslow County, N.C., C.R.R., 1947; H.F.G., 1950) (Previous description is on page 19)--Station and reference marks were recovered in good condition. The description is adequate.

 RANGE TWO (Onslow County, N.C., C.R.R., 1947; H.F.G., 1950) (Previous description is on page 20)--Station was recovered in good condition. The description is adequate, with the following addition:
 Witness mark is a 4- by 4-inch wooden post, 2 feet E, and projecting 2 feet above ground.

 TOWER SEVEN (Onslow County, N.C., C.R.R., 1947; H.F.G., 1950) (Previous description is on page 20)--Station and reference mark were recovered in good condition. The description is adequate.

 TOWER EIGHT (Onslow County, N.C., C.R.R., 1947; H.F.G., 1950) (Previous description is on page 20)--This tower has been remodeled into a beach club, a roof being added and a one-story structure to its rear. The disk was not visited, as the owner could not be found. It is believed to be intact, however. Reference mark 1 is covered by a one-story addition. The original description is adequate for reaching the station.

 TOWER SIX (Onslow County, N.C., C.R.R., 1947; H.F.G., 1950) (Previous description is on page 21)--The building on which the station is located is now privately owned and the roof was not accessible but it is believed to be intact. Reference mark 1 is covered by an addition to the tower.

 CAMP LEJEUNE, AREA 1, WATER TANK (Onslow County, N.C., H.F.G., 1950)--Station was recovered in good condition. No description is available. A complete description follows:
 Station is located in Camp Lejeune in the Women's Reserve Area, approximately 100 feet N of Service Road, and approximately 150 feet NW of the intersection of Service Road and Virginia Dare Drive. Station is the center of a skeleton steel water tank 150 feet high and painted green.

 CAMP LEJEUNE, AREA 5, WATER TANK (Onslow County, N.C., H.F.G., 1950)--Station was recovered in good condition. No description is available. A complete description follows:
 Station is located in Camp Lejeune, approximately 350 feet N of Service Road and Louis Road. Station is the center of a skeleton steel water tank 150 feet high and painted green.

 CAMP LEJEUNE, PARACHUTE TOWER 2 (Onslow County, N.C., H.F.G., 1950)--Station was recovered in good condition. No description is available. Description follows:
 Station is located in the Parachute Training Area of Camp Lejeune, approximately 0.5 mile W of the intersection of Parachute Tower Road and Holcomb Boulevard. It is the most E of two skeleton steel parachute jump towers. It is 260 feet high.

 CAMP LEJEUNE, PARACHUTE TOWER 3 (Onslow County, N.C., H.F.G., 1950)--Station was recovered in good condition. No description is available. Description follows:
 Station is located in the Parachute Training Area of Camp Lejeune, approximately 1.0 mile W of the intersection of Parachute Tower Road and Holcomb Boulevard. It is the most W of the two skeleton steel parachute jump towers. It is 260 feet high.

 CAMP LEJEUNE, RED AND WHITE WATER TANK (Onslow County, N.C., H.F.G., 1950)--Station was recovered in good condition. No description is available. Description follows:
 Station is located at Camp Lejeune (U.S.M.C.), at the NE corner of the intersection of Cecil Street and St. Mary Drive. It is the center of a large red and white checkerboard steel tank approximately 165 feet high.

 CAMP LEJEUNE, RIFLE RANGE NO. 2, WATER TANK (Onslow County, N.C., H.F.G., 1950)--Station was recovered in good condition. No description is available. Description follows:
 Station is located on the E side of New River, at the SW corner of Camp Lejeune Rifle Range No. 2. It is the center of a large green water tank on skeleton steel legs and approximately 150 feet high.

PIRE TOWER NO. 2 (Onslow County, N.C., H.F.G., 1950)--Station was recovered in good condition. Description follows:
 Station is the center of a 135-foot steel skeleton tower painted green. It is located on the N bank of New River, 2,400 feet N of the center of the New River Bridge (Sneads Ferry), and 250 feet E of State Highway 172.

 MONUMENT 371 (U.S.M.C.) (Onslow County, N.C., H.F.G., 1950)--Station was recovered in good condition. No previous description is available. Description follows:
 Station is located at Camp Lejeune (U.S.M.C.) on Hadnot Point, 68.0 feet back from the extremity of the point, 23.5 feet S of line oak tree on point, 5.4 feet N of the E end of the concrete sea wall, 9.1 feet N of the mean high-water line, and 68.0 feet E of the W end of the concrete sea wall.
 Station mark is a nail in the center of an 8- by 8-inch concrete monument set 2 inches below the surface.

 NEW RIVER LIGHT 70 (Onslow County, N.C., H.F.G., 1950)--Station is located on the E side of the Intracoastal Waterway Channel in New River. It is a red triangular daymark on a slatted pile structure.



 SPRING 2 (U.S.E.) (Onslow County, N.C., H.F.G., 1950)--Station was recovered in fair condition. A revised description follows:
 Station is located on the W side of New River, on the wooded point known as Spring Point, which is the first prominent point on the W side of the river S of Town Point.
 Station mark is a concrete monument projecting 2 feet above the ground (now loose), approximately 3 meters E of a 20-foot bluff, and 1 meter outside the mean high-water line.
 To reach the station from the post office in Verona, travel S 2.8 miles to a T-road left (E), turn left and proceed 4.1 miles to a dirt road leading E, and follow the dirt road to Spring Point and station site.
 Computations show that this station is not in the same position as the old station SPRING (U.S.E.), therefore, the name has been changed to SPRING 2 (U.S.E.).

 BEACON NO. 31 (Onslow County, N.C., J.A.B., 1933; 1950) (No previous description)--Report from Notice to Mariners No. 44 dated November 4, 1950:
 Beacon No. 31 renamed Topsail Sound Light 83 has been destroyed.

 SEARS (Pender County, N.C., H.C.A., 1943; D.A.J., 1954) (Previous description is on page 18)--The subsurface station mark was recovered, but the surface mark was gone. Reference marks 1 and 2 were recovered and found in good condition. Due to highway construction, a new station, SEARS 2, and reference marks 3 and 4 were established. The 1943 description is adequate with the following exceptions:

The Sears Landing Tank, which was used for the azimuth mark, has been destroyed, and the village of Sears Landing has been renamed Surf City.

 SEARS 2 (Pender County, N.C., D.A.J., 1954)--Station is located about 1-1/2 mi. W of the village of Surf City, 80 yds. SW of the SW end of a drawbridge, and on the S side of Topsail Road. It is 72 ft. S of the centerline of Topsail Road, and 50 ft. N of the high-waterline. The mark projects 6 in., and the disk is stamped "SEARS 2 1954" (note 1a).

Reference mark 3 is 75 ft. S of the centerline of Topsail Road, and 55 ft. N of the high-waterline. The mark projects 6 in., and the disk is stamped "SEARS 2 RM 3 1954" (note 11a).

Reference mark 4 is 85 ft. S of the centerline of Topsail Road, and 50 ft. N of the high-waterline. The mark projects 6 in., and the disk is stamped "SEARS 2 RM 4 1954" (note 11a).

To reach the station from the SW end of the village of Surf City, go SW on Topsail Road for 2.0 mi. to a drawbridge and the station as described.

A traverse connection was made from station SEARS to station SEARS 2, and the distance is 44.30 ft. or 13.502 m.

OBJECT	DISTANCE		DIRECTION
SEARS	meters	feet	0°00'00"0
R.M. 3 E	12.280	40.29	104 22 17
R.M. 4 W	11.550	37.89	271 42 11
Height of instrument above station mark - 1 m.			
Height of light above station mark - 1 m.			

 VARIOUS STATIONS (Onslow County, N.C., A.P.R.-C.R.R., 1932-47; U.S.M.C., 1957)--Report of 2d Topo Co., Fleet Marine Force, Atlantic, Camp Lejeune, North Carolina, dated 26 August 1957:

The following stations were recovered:
 FISH -- see pages 10, 19 and 28.
 TOWER NINE -- see pages 19 and 29.
 VIEW -- see pages 10, 19 and 28.
