

Last Updated: Sep 24, 2007

Key Personnel in the development of LORAN

ADM Julius A Furer USN, RADM Harvey J Johnson USCG, RADM C A Park USCG, Capt Furth USN, CAPT LH Harding USCG (Coined the term LORAN), CDR Donald B MacMillian USN,

Nation Defense Research Council (NDRC) Division 11

Mr. M. Eastham, Dr. A Loomis, Dr. K Compton, Dr. JA Pierce MIT, Dr. C Street, Prof. J Stratton MIT, Dr. F Watson

Field Engineers

Mr. W Tierney, Mr. Waldschmitt MIT, Mr. MacKenzie MIT, Mr. Whipple MIT, Mr. Vissers MIT, Ken Taylor MIT, Dan Fink MIT, Davaidson MIT, RM1c William A Ogletree

CDR Worth RCN, LT Comdt Argyle RCNR

Capt Lawrence M. Harding - Project Officer, LT D C Cowie - Assist

Computer Loran Tables - Hydrographic Office - Hudson Terminal Building 50 Church St, NYC, NY LTJG F G Watson OINC  
40 computers in operation

Engineering (G-E) operations

Civil Engineering Division (G-EVC) - responsible for construction, buildings - CAPT Tinkham G-EVC, LT Comdr Edward P Wagner XO  
Construction Detachments under CAPT Tinkham

Electronics and Communications (G-EEE) - responsible for equipment maintenance -LT Comdr Lawrence M Harding XO

Navigation (G-NRN) Operations and personnel - Comdr Frederick G Wild XO

LT Comdr Arthur F Van Dyke - Navy planning

**PERSONAL AWARDS FOR THE LORAN PROGRAM START-UP WWII**

RADM HARVEY F JOHNSON - LEGION OF MERIT

COMMODORE FREDERICK P DILLON - COMMENDATION RIBBON

CAPT GORDON MacLANE - COMMENDATION RIBBON

CDR KENNETH W DONNELL - LEGION OF MERIT

LT ALBERT J SUMMERFIELD - BRONZE STAR

**LORAN "A" CONSTRUCTION DETACHMENT:**

NAMED UNIT	COMMISSIONED	DECOMMISSIONED	UNIT NO.
DET "A"	01-Sep-43	17-Oct-45	UNIT 26
DET "B"			UNIT 192
DET "C"	Mar-44	18-Sep-45	UNIT 80
DET "D"		5-Dec-45	UNIT 211
Command Unit	Dec-43	20-Dec-45	UNIT 203
Became Pacific Construction Det	20-Dec-45		
Construction Det Supply Base			UNIT 290
Advance Base Staging DET	Jan-45	Nov-45	UNIT 390

LORAN "A" STATIONS

STANDARD LORAN WAS OFFICIALLY TURNED OVER TO THE COAST GUARD VIA THE NAVY JANUARY 1, 1943

November 1, 1945: 61 Transmitting Stations  
 41 Transmitting Stations emitting signals  
 7 Station were discontinue  
 2 under construction  
 1945 LORAN Declassified  
 Radio Engineering Labs Built 1st 176 Loran Xmtrs. Henry Dietz produce after 1947.

January 1946 First public demonstration of LORAN at Floyd Bennett Field, NY

1946 56 LORAN-A stations and monitors operational - large reduction of stations because USAAC shutdown LORAN SS stations.

June 1962 79 Loran A stations in operation

1977 65 Loran A stations in operation

Dec 31, 1980 The last 14 LORAN A stations closed down at midnight ending LORAN A coverage.

A normal compliment of personnel:  
 Slave station - 1 officer, 17 enlisted  
 Monitor station - 1 officer, 7 enlisted

LORAN "A"

STATION NAME	RATE	ON-AIR	IN SERVICE CONTINUOUS OP	OFF-AIR	UNIT No.	MANNED BY	Station Paired With
ADAK ISLAND, ALASKA Sta Letter: "D" 1L3/1L2 WESTERN ALEUTIANS Chain on air 2/17/44	1L2-M 1L3-M 1L6-M 1L7-M	DEC 1943	CH RATE 1961 CH RATE 1961 1950 1950	1-Jul-79 1-Jul-79 1961 1961	Unit 64 FPO 230	USCG	Paired with ATTU ISLAND Paired with CAPE SARICHEF Paired with CAPE SARICHEF Paired with ATTU ISLAND 1L0/1L1
AGUNI, OKINAWA SS CHINA CHAIN	4H0 4H1			NOV 1945	Unit 437		NEVER WENT ON-AIR Work ceased late NOV 1945
AMCHITKA Sta Letter: "C" 1L0 WESTERN ALEUTIANS Chain on air 2/17/44	1L0-M	Dec-43	8-Jun-44	1950	Unit 63	USCG	Paired with ATTU
AMGURI, ASSAM, INDIA Letter name: "C" China-Burma-India Chain	4L3-S	SEP 1944	SEP 1944	25 OCT 1945		AMRY AF	Paired with HOOGRIJAN
AMI, YUNNAN, CHINA Sta Letter: "F" K'UN-MING CHAIN	4L1-S	16 DEC 1944	FEB 1945	NOV 1945		AMRY AF	Paired with KUNYAN
ANGAUR ISLAND, PALAU IS AKA: PALAU, NGEAUR NAME CHANGED: 1967 Sta Letter: "A" 2L1 PALAU MOROTAI CHAIN	2L1-S 2L2-MON 2L1-S 4H6	Mar-45	1-Jan-65 1-Jan-65 1953 2-Apr-45	312400Z DEC 77 312400Z DEC 77 31-Dec-64 18-Apr-46	FPO 3257 UNIT 346	USCG USCG	Paired with YAP YAP/GUAM Paired with ULITHI PULO ANNA-PALAU

MONITOR Chain on the air 4/14/45	4H7	Mar-45	2-Apr-45	18-Apr-46				PULO ANNA-MOROTAI
PALAU MOROTAI CHAIN MONITOR	4H6 4H7	6-Dec-44 6-Dec-44 ??1-Dec-44??	6-Dec-44 18-Jan-45	2-Apr-45 2-Apr-45	UNIT 334	USCG		PULO ANNA-PALAU PULO ANNA-MOROTAI
ATAFU Sta Letter: "F" 2L5 The PHOENIX CHAIN Chain on air 12/16/44	2L5-S	29-Sep-44	22-Nov-44	May-46	UNIT 93	USCG		Paired with GARDNER
ATTU ISLAND, ALASKA Sta Letter: "T" 1L0 Sta Letter: "L" 1L2 WESTERN ALEUTIANS Chain on air 2/17/44	1L2-S 1L7-S 1L0-S		CH RATE 1961 1950	1-Jul-79 1961		USCG		Paired with ADAK ISLAND Paired with ADAK ISLAND Paired with AMCHITKA
		11-Feb-44	8-Jun-44	1950	Unit 62 FPO 163			
BACCARO, NOVA SCOTIA Sta Letter: "B" 1H2/1H3 Code Name: BAKER	1H2-S 1H3-S 1L1-S		<01 FEB 1950 <01 FEB 1950 10 DEC 1943	31 DEC 1981 312400Z DEC 80 <01 FEB 1950			HOST	Paired with DEMING Paired with NANTUCKET Paired with NANTUCKET Survey made DEC 1942
	1L2-S	01 OCT 1942	01 OCT 1942	<01 FEB 1950			HOST	Paired with DEMING Survey made SUMMER 1942
	1L1-S	SEP 1942	01 OCT 1942	011800Z JUL 43	Unit 03		HOST	Paired with MONTAUK POINT Survey made SUMMER 1942
BAKER Sta Letter: "E" 2L4 The PHOENIX CHAIN Chain on air 12/16/44	2L4-S	20-Aug-44	28-Sep-44	May-46	UNIT 91	USCG		Paired with GARDNER
BATAN, PHILLIPPINE Sta Letter: "A" 2H3/2H4 ELMO 7	2H3-S 2H4-S 2H3-S 2H4-S 1L4-S 1L5-S		XFER 1967 XFER 1967 CH RATE 1964 CH RATE 1964	1972 1972 XFER 1967 XFER 1967			PHILLIPPI USCG	Paired with CATANDUANES Paired with MIYAKO JIMA Paired with CATANDUANES Paired with MIYAKO JIMA
		20-Jul-53	1-Aug-53	1964			USCG	Paired with MIYAKO JIMA
		20-Jul-53	1-Aug-53	1964				Paired with CATANDUANES
BATHURST ISLAND Sta Letter: "N" 2H4 BANDA SEA CHAIN	2H4-S	6-Jun-44	24-Jul-44				USAAC	Paired with SIR GRAHAM MOORE
BATTLE HARBOR, LABRADOR Sta Letter: "V" 1L3/1L4 at White Point Code Name: LOVE AKA:Advance Base Buck	1L2-S 1L3-S 1L4-S 1L3-S 1L4-S		1961 XFER 9/1/1953 XFER 9/1/1953	31 DEC 1983 1980 1961			HOST HOST HOST	Paired with FREDERICKSDAL Paired with BONAVISTA Paired with FREDERICKSDAL
		Mar-43	15 JAN 1944	XFER 1953	UNIT 06 NJN -Unit35		USCG	Paired with BONAVISTA Survey made JUL 1942
		Mar-43	15 JAN 1944	XFER 1953	FPO 228		USCG	Paired with FREDERICKSDAL Survey made JUL - AUG 1942
BILOXI, MISS MOVED TO GRAND ISLE, LA Pt. Cadet	3H1-M 2H1-S		CH RATE 1964 1952	1968 1964			USCG	Paired with CAPE SAN BAIS Paired with CAPE SAN BAIS

BIORKA ISLAND, ALASKA Sta Letter: "B" 1L5/1L6 AKA: SITKA	1L5-S 1L6-S 1L2-S		ADDED 1970 CH RATE 1961 1952	312400Z DEC 79 312400Z DEC 79 1961	USCG	Paired with GRAY POINT Paired with OCEAN CAPE Paired with OCEAN CAPE
BIZERTE, NORTH AFICA	3H4-S/SS			23001		Paired with PORT ERROL
BJUGN, NORWAY (TARVA) Sta Letter: "B" 1L1 NAME CHANGED: 1968	1L1-M		1961	10-Nov-77	HOST	Paired with BO
BO, NORWAY Sta Letter: "N" 1L1/1L0	1L0-S 1L1-S		1961 1961	10 NOV 77 10 NOV 77	HOST	Paired with JAN MAYEN Paired with TARVA (BJUGAN)
BODIE ISLAND, NC REPLACE FENWICK Sta Letter: "H" 1L0/1H1 Moved to Cape Hatteras in 1949	1H1-S 1L0-S	25 MAR 1945 18 DEC 1944	11 APR 1945 010001Z FEB 45	1949 1949	USCG	Paired with FOLLY ISLAND Paired with NANTUCKET
BONA VISTA, NEWFOUNDLAND Sta Letter: "V" 1L3 Code Name: VICTOR	1L3-M 1L3-M	Mar-43	XFER 9/1/1953 15 JAN 1944	1980 XFER 1953	Unit 05 USCG	Paired with BATTLE HARBOR Paired with BATTLE HARBOR
CAMERON, LA Sta Letter: "R" 2L5 Gulf of Mexico Training Chain	2L5-S	1-May-45	23-May-45		USAAC	Paired with MATAGORDA
CAPE ATHOLL, GREENLAND AKA: DOPE I	2S6-M 1L0-M 1L7-M		Nov-56 1954	302400Z JUN 75 Nov-56	USCG	Paired with CAPE CHRISTIAN Paired with CAPE CHRISTIAN Paired with CAPE CHRISTIAN
CAPE BLANCO, OR Sta Letter: "B" 1H6/1L0	1H6-S 1L0-S 2H3-S 2H4-S	6-Jun-45	CH RATE 1970 CH RATE 1970 01 FEB 1950 24-Jul-45	312400Z DEC 79 312400Z DEC 79 1970 1970	USCG USCG USCG USCG	Paired with POINT ARENA Paired with POINT GRENVILLE Paired with POINT ARENA Paired with POINT GRENVILLE
CAPE CHRISTIAN, CANADA Baffin Is. AKA: DOPE II	2S6-S 2S7-S 1L0-S 1L1-S 1L7-S	Rate Change	Nov-56 1954 1954	302400Z JUN 75 302400Z JUN 75 Nov-56	USCG	Paired with CAPE ATHOLL Paired with NIPISAT Paired with CAPE ATHOLL Paired with NIPISAT Paired with CAPE ATHOLL
CAPE HATTERAS, NC Sta Letter: "H" 3H4/3H6 REPLACED BODIE IS.	3H4-S 3H6-S 1H4-S 1H6-S		CH RATE 1968 CH RATE 1968 1949 1949	312400Z DEC 80 312400Z DEC 80 1968 1968	USCG	Paired with NANTUCKET Paired with FOLLY ISLAND Paired with NANTUCKET Paired with FOLLY ISLAND
CAPE SAN JUAN, PR Sta Letter "J" 3L2	3L2-M 2L2-M 2L2-M		CH RATE 1968 Jul-59 1955	312400Z DEC 80 1968 1959	USCG	Paired with SOUTH CAICOS Paired with SOUTH CAICOS Paired with Grand Turk

CAPE SAN BLAS, FLA Sta Letter "A" 3H0/3H1	3H0-M 3H1-M 3H1-M 2H0-M 2H1-M		CH RATE 1964 1968	312400Z DEC 80 312400Z DEC 80		USCG	Paired with VENICE Paired with GRAND ISLE Paired with BILOXI Paired with VENICE Paired with BILOXI
CAPE SARICHEF UNIMAK ISLAND, ALASKA NAME CHANGE 1967 Sta Letter: "S" 1L3 BERING SEA Monitor Code Name: Yoke Chain on air 12/4/44	1L3-S 1L6-S MONITOR		CH RATE 1961 01 FEB 1950	1-Jul-79 1961		USCG USCG	Paired with ADAK ISLAND Paired with ADAK ISLAND
			1-Jul-1947 Dec-43	1950 Dec-44	FPO 86 Unit 25	USCG	1L2 St.Paul/Umnak
CATANDUANES, PHILIPPINES AKA: PANAY ISLAND Sta Letter: "D" 2H3	2H3-M 2H3-M 1L5-M		XFER 1967 CH RATE 1964 1953	1972 1967 1964		PHILLIPPI USCG USCG	Paired with BATAN ISLAND Paired with BATAN ISLAND Paired with BATAN ISLAND
CHAMPAGNY ISLAND Sta Letter: "A" 2H5 BANDA SEA CHAIN	2H5-S	JUL 1944	AUG 1944			USAAC	Paired with SIR GRAHAM MOORE
CHAR CHAPLI IS., BENGAL, INDIA Sta Letter: "X" China-Burma-India Chain	4L6-M	FEB 1945	FEB 1945	NOV 1945		USAAC	Paired with PURI
CHENGSHANTOU	1L1-M 1L0-M 1L4-S					CHINA	Paired with SHANGGULIN Paired with ZHUANGHE Paired with SHEYANGHE
COCONADA, MADIAS, INDIA Sta Letter: "Z" China-Burma-India Chain	4L7-M	FEB 1945	FEB 1945	NOV 1945		USAAC	Paired with PURI
DANVILLE, ILL Sta Letter: "D" 2H6 Central Interior US Training Chain	2H6-S	Jul-45	Jul-45 8 HRS/DAY			USAAC	Paired with GEORGE FIELD Used for training B-29 crews
DEMING, NOVA SCOTIA Sta Letter: "D" 1H1/1H2 Sta Letter: "D" 1L2/1L7 Code Name: DOG	1H1-M 1H2-M 1L7-M 1L2-M	15-Mar-45	1-Feb-50 1-Feb-50 26 OCT 1945	31 DEC 1981 31 DEC 1981 1-Feb-50	Unit 04	HOST HOST USCG HOST	Paired with PORT-AUX-BASIQUE Paired with BACCARO Paired with PORT-AUX-BASIQUE Survey made JUL 1944 Paired with BACCARO Survey made SUMMER 1942
EAST BLOCKHOUSE, WALES Sta Letter "W" 1H5	1H5-S 1S3-M		1976 1961	312400Z DEC 77 1976		HOST HOST	Paired with ESTACA DE VARES Paired with PORSPODOR

ENIWETOK, MARSHALL IS	1H1-M		CH RATE 1970	312400Z DEC 77		USCG	Paired with WAKE ISLAND
Sta Letter: "E" 1H1/1H2	1H2-M		CH RATE 1970	312400Z DEC 77			Paired with KWAJALEIN
NAME CHANGE: 1967	1L0-M	24-Jan-51	011300 FEB 51	CH RATE 1970		USCG	Paired with WAKE ISLAND
AKA: BROWN ISLAND	1L1-M	24-Jan-51	011300 FEB 51	CH RATE 1970			Paired with KWAJALEIN
					FPO 3237		
ESTACA DE VARES, SPAIN	1H5-M	Reconfig	1976	312400Z DEC 77		USCG	Paired with EAST BLOCKHOUSE
Sta Letter "S" 1H5	1S4-M	1960	1961	1976		USCG	Paired with PORSPODOR
Radio Call Sign AOB50							
FENWICK, DE	1L0-S	012200Z JUL 43	10 DEC 1943	010000Z FEB 45	Unit 01	USCG	Paired with NANTUCKET
Letter name "F"							Survey made DEC 1942
Code Name: FOX	1L0-S	DEC 1941	MAY 1942	011800Z JUL 43		USCG	Paired with MONTAUK POINT
					Unit 30		
FLORES, AZORES	1S7-S		1965	1977		HOST	Paired with SANTA MARIA
Sta Letter "F" 1S7							
FOLLY ISLAND, SC	3H6-M		CH RATE 1968	312400Z DEC 80	Unit 361	USCG	Paired with CAPE HATTERAS
Sta Letter: "C" 3H6/3L1	3L1-M		CH RATE 1968	312400Z DEC 80			Paired with JUPITER
AKA: FOLLY BEACH	1H7-M		1961	1968			Paired with JUPITER
	1H6-M		1949	1968			Paired with CAPE HATTERAS
	1H7-M		1949	1961			Paired with HOBE SOUND
	1H1-M	25 MAR 1945	11 APR 1945	1949			Paired with BODIE ISLAND
	1H2-M	17 JAN 1945	15 MAY 1945	1949			Paired with HOBE SOUND
FREDERICKSDAL, GREENLAND	1L2-M		1961	31 DEC 1983	Unit 07	HOST	Paired with BATTLE HARBOR
Letter name "N" 1L2/1L4	1L4-M	11-Mar-43	15-Jan-44	1961	FPO 1900	USCG	Paired with BATTLE HARBOR
LIBA - NARSAK					Not Activated		
Code Name: NAN							
FRENCH FRIGATE SHOALS, HI	2L6-M		Aug-52	1-Jul-79	Z40152	USCG	Paired with KAUAI
East/Tern Island	2L7-M		8-Jan-1958	1-Jul-79			Paired with JOHNSON ISLAND
Sta Letter: "T" 2L6/2L7	2L1-M	27 JUL 1944	19 OCT 1944	6-Nov-52	UNIT 204		Paired with NIIHAU
Sta Letter: "G" 2L1					FPO 80		
HAWAIIAN CHAIN							
Chain on air 11/8/44							

GALVESTON, TX	3H2-M		1968	312400Z DEC 80		USCG	Paired with GRAND ISLE
Sta Letter: "G" 3H2/3H3	3H3-M		1968	312400Z DEC 80			Paired with PORT ISABEL
GARDNER	2L4-M	28-Sep-44	22-Nov-44	May-46	UNIT 92	USCG	Paired with BAKER
Sta Letter: "R" 2L4/2L5	2L5-M	28-Sep-44	22-Nov-44	May-46			Paired with ATAFU (260 miles SSE)
Nikumaroro Is.			Dec-1944?				
The PHOENIX CHAIN							
Chain on air 12/16/44							
GARTHS NESS, SHETLAND	1S1-M		1961	312400Z DEC 77		HOST	Paired with NEWTON POINT
Sta Letter "G" 1S1							
GEORGE FIELD, IL	2H6-M	Jul-45	Jul-45			USAAC	Paired with DANVILLE
Sta Letter: "P" 2H6/2H7	2H7-M	Jul-45	Jul-45			USAAC	Paired with STURGIS
Central Interior US Training Chain							Used for training B-29 crews
GESASHI	2H5-S		XFER 1 JAN 78	10-Mar-97	Z40179	JAPN	Paired with MIYAKO JIMA
Sta Letter: "E" 2S7/2H6	2H6-M		XFER 1 JAN 78	10-Mar-97		JAPN	Paired with HACHIJO
Sta Letter: "E" 2H5	2S7-S		XFER 1 JAN 78	10-Mar-97		JAPN	Paired with OSHIMA
	2S7-S		CH RATE 1964	312400Z DEC 77		USCG	Paired with OSHIMA
	2H5-S		ADDED 1964/5	312400Z DEC 77		USCG	Paired with MIYAKO JIMA
	2H6-S		CH RATE 1964	312400Z DEC 77		USCG	Paired with IWO JIMA
GOUJI	1L5-S					CHINA	Paired with SHEYANGHE
	1S1-S						Paired with SHITANG
GRAND ISLE, LA	3H1-S		1968	312400Z DEC 80		USCG	Paired with CAPE SAN BAIS
Sta Letter "I" 3H1/3H2	3H2-S		1968	312400Z DEC 80			Paired with GALVESTON
GRAND TURK ISLAND	2L2-S		1955	1959			Paired with CAPE SAN JUAN
	2L3-S		1955	1959			Paired with SAN SALVADOR
GRAY POINT, BC	1L4-M		1970	31-Dec-79		HOST	Paired with SPRING ISLAND
Moresby Is.	1L5-M		1970	31-Dec-79			Paired with BIORKA ISLAND
Sta Letter: "G" 1L4/1L5							
GUAM	2L2-S		01 JAN 1965	312400Z DEC 77	UNIT 336	USCG	Paired with YAP
Sta Letter: "U" 2L2/2L3	2L3-S		1953	312400Z DEC 77	FPO 939		Paired with SAIPAN
AKA: COCOS, OROTE PT	2L2-S		1953	31-Dec-64			Paired with ULITHI
Sta Letter: "V" 4H2/4H3	4H2-S	27 DEC 1944	12 JAN 1945	1953			Paired with ULITHI
NAMED CHANGED: 1967	4H3-S	28 NOV 1944	16-Dec-44	1953			Paired with SAIPAN
MARIANAS CHAIN							
Chain on air 12/26/44							
HACHIJO JIMA	2H7-S		XFER 1 JAN 78	10-Mar-97		JAPAN	Paired with GESASHI
Sta Letter: "U" 2S0/2H7	2S0-S		XFER 1 JAN 78	10-Mar-97		JAPAN	Paired with HASAKI
	2H7-S		1967	312400Z DEC 77		HOST	Paired with IWO JIMA
	2S0-S		1967	XFER 31 DEC 77		HOST	Paired with HASAKI
HASAKI, JAPAN	2S0-M		XFER 1967	10-Mar-97		JAPAN	Paired with HACHIJO JIMA
Sta Letter: "Z" 2S2/2S0	2S2-S		XFER 1967	10-Mar-97		JAPAN	Paired with KAMAISHI
	2S0-M		1967	XFER IN 67		HOST	Paired with HACHIJO JIMA
	2S2-S		1959	XFER IN 67		USCG	Paired with KAMAISHI

HEBRIDES, MANGERSTA UNITED KINGDOM Sta Letter: "A" 1L6	1L6-S 1L6-S	15-Dec-43	Before 1961 16-Jul-44	312400Z DEC 77 Jan-45		HOST HOST	Paired with SKUVANES Paired with SKUVANES
HOBO SOUND, FL Sta Letter: "G" 1H2	1H7-S 1H2-S	17 JAN 1945	1949 15 MAY 1945	MOVED 1962 1949	Unit 362	USCG	Paired with FOLLY ISLAND Paired with FOLLY ISLAND
HOOGRIJAN, ASSAM, INDIA Letter name: "A"	4L3-M 4L4-M	SEP 1944 SEP 1944	SEP 1944 SEP 1944	25 OCT 1945 25 OCT 1945		HMRN HMRN	Paired with AMGURI Paired with PAYA
IKE SHIMA Letter name: "J" ICHI HANARE, is.near JAPAN CHAIN Chain on air 9/1/45	2H4-S 4H7-S 4H4-S		01 FEB 1950 01 FEB 1950 27-May-45	1964 1964 1-Feb-50	FPO 3256 UNIT 350	USCG USCG USCG	Paired with OSHIMA (ELMO5) Paired with IWO JIMA Paired with IWO JIMA
IWO JIMA Sta Letter: "K" 2H6 Sta Letter: "Y" 2H7 KITANO POINT 49-52 KANGOKU IWO 45-48 Sta LetterL "K" 4H4/4H5 JAPAN CHAIN Chain on air 9/1/45	2H6-M 2H7-M 2H7-M 4H6-M 4H7-M 4H4-M 4H5-M		CH RATE 1964 1967 CH RATE 1964 01 FEB 1950 01 FEB 1950 10 JUN 1945 25 DEC 1945	312400Z DEC 77 312400Z DEC 77 1967 1964 1964 1950 1950	Unit 348 FPO 3139	USCG	Paired with GESASHI Paired with HACHIJO JIMA Paired with O-SHIMA Paired with O-SHIMA Paired with ICHI HANARE (GESASH) Paired with ICHI HANARE (GESASH) Paired with O-SHIMA
JAN MAYEN, NORWAY LORAN "C" STATION Sta Letter: "J" 1L0	1L0-M		1961	10 NOV 77		HOST	Paired with BO
JOHNSON ISLAND, HI Sta Letter: "O" 2L7	2L7-S 216-MON		8-Jan-1958	1-Jul-79		USCG	Paired with FRENCH FRIGATE SHO Monitor Lorsta KAUAI
JUPITER, FL Sta Letter: "P" 3L1 Sta Letter: "J" 3L5	3L5-S 3L1-S 1H7-S		ADDED 1969 CH RATE 1968 1962	312400Z DEC 80 312400Z DEC 80 1968		USCG	Paired with SAN SALVADOR Paired with FOLLY ISLAND Paired with FOLLY ISLAND
KAUAI, HI Sta Letter: "K" 2L5 Sta Letter: "M" 2L6	2L5-S 2L6-S 2L5-S 2L5-S 2L4-S		08 JAN 1965 Aug-52 Aug-52 Dec-51 Dec-51	1-Jul-79 1-Jul-79 08 JAN 1965 Aug-52 Aug-52		USCG	Paired with UPOLU POINT Paired with FRENCH FRIGATE SHO Paired with MOLIKAI Paired with MOLIKAI ??
HAWAIIAN CHAIN Monitor Chain on air 11/8/44	2L0 2L1	11 JUL 1944 27-Jul-44	19 OCT 1944 19 OCT 1944	01 JAN 1947 01 JAN 1947	UNIT 207	USCG	NIIHAU-HAWAII FRENCH FRIGATE-NIIHAU
KUNYAN, YUNNAN, CHINA Sta Letter: "D" K'UN-MING CHAIN	4L1-M 4L2-M	16 DEC 1944 16 DEC 1944	FEB 1945 FEB 1945	NOV 1945 NOV 1945		USAAC	Paired with AMI Paired with LUTZE
KUTDLEK, GREENLAND Sta Letter: "O"	1L5-M		1961	1977		HOST	Paired with ORSSUIAGSSUAQ
KWAJALEIN, MARSHALL IS KWAJALEIN ATOLL, EBEYE : Kwadack Is./Augustine NAME CHANGED: 1967 Sta Letter: "K" 2L2 Sta Letter: "Y" 1H2 The MARSHALL CHAIN Chain on air 12/16/44	1H2-S 1L1-S 2L2-S	020800 DEC 50 28-Sep-44	CH RATE 1970 011300 FEB 51 01 DEC 1944	312400Z DEC 77 1970 1951	UNIT 82 FPO 3233	USCG	Paired with ENIWETOK Paired with ENIWETOK Paired with MAJURO



KYUSHU, CHINA SEA SS CHINA CHAIN	4H0			NOV 1945	UNIT 472		CHAIN NEVER WENT ON-AIR Work ceased late NOV 1945
LONGGUN	1S6-S					CHINA	Paired with SANZAO
LUTZE, YUNNAN, CHINA Sta Letter: "E" K'UN-MING CHIAN	4L2-S	16 DEC 1944	FEB 1945	NOV 1945		USAAC	Paired with KUNYAN
MAJURO Sta Letter: "D" 2L2/2L3 Rogeron/Lorraine The MARSHALL CHAIN Chain on air 12/16/44	2L2-M 2L3-M	28 SEP 1944 28 SEP 1944	01 DEC 1944 01 DEC 1944	1951 1951	UNIT 83 FPO 3234	USCG	Paired with KWAJALEIN Paired with MAKIN
MAKIN BIKATI, Gilbert Atoll VARSITY Sta Letter: "L" 2L3 The MARSHALL CHAIN Chain on air 12/16/44	2L3-S	28 SEP 1944	01 DEC 1944	1951	UNIT 84 FPO 3610	USCG	Paired with MAJURO
MARSHALL POINT, MA Sta Letter "M" 1H7	1H7-S		1971	312400Z DEC 80		USCG	Paired with NANTUCKET
MASURO			16 DEC 1944	1951			
MATAGORDA, TX Sta Letter: "M" Gulf of Mexico Training Chain	2L5-M 2L6-M	01 MAY 1945 01 MAY 1945	23 MAY 1945 23 MAY 1945			USAAC	Paired with CAMERON Paired with PORT ISABEL
MATSUMAE, JAPAN HOKKAIDO AKA: MAYSUMAE Sta Letter: "E" 2S3 ELMO 1	2S3-S 2S3-S 2H0-S		XFER 1967 CH RATE 1964 1952	10-Mar-1997 XFER 1967 1964		JAPAN HOST USCG	Paired with NIIGATA Paired with NIIGATA Paired with NIIGATA
MATSUE MIHO BAY, JAPAN HONSHU Sta Letter: "F" 2S4/2S5 ELMO 3	2S4-S 2S5-S 2S4-S 2S5-S 2H1-S 2H2-S		XFER 1967 XFER 1967 CH RATE 1964 ADDED 1964 1952 1952	10-Mar-1997 10-Mar-1997 XFER 1967 XFER 1967 1964 1964		JAPAN HOST USCG	Paired with NIIGATA Paired with TSUSHIMA Paired with NIIGATA Paired with TSUSHIMA Paired with NIIGATA Paired with PUSAN
MIYAKO JIMA, RYUKYU IS Sta Letter: "I" 2H4/2H5 ELMO 6	2H5-M 2H5-M 2H4-M 2H5-M 1L4-M		XFER 1978 1971 CH RATE 1964 ADDED 1964 1953	10-Mar-1997 312400Z DEC 77 1970 1971 1964	FPO 3166	JAPAN HOST USCG USCG USCG	Paired with GESASHI Paired with GESASHI Paired with BATAN ISLAND Paired with GESASHI Paired with BATAN ISLAND

MOLOKAI	2L5-M 2L4-M		Aug-52 1952	08 JAN 1965 08 JAN 1965		USCG USCG	Paired with KAUKI Paired with UPOLU POINT (HAWAII)
MONTAUK POINT, NY Sta Letter: "M" Code Name: MIKE Moved to Nantucket	1L0-M 1L1-M	DEC 1941 SEP 1942	MAY 1942 1 OCT 1942	011800Z JUL 43 011800Z JUL 43	UNIT 02	USCG	Paired with FENWICK Paired with BACCARO Survey made SUMMER 1942
MOROTAI, PALAU Sta Letter: "M" 4H7 (Pangeo)	4H7-S 4H7-S		28-Apr-45 6-Dec-44	18-Apr-46 14-Apr-45	Unit 345 FPO 936 UNIT 333	USCG USCG	Paired with PULO ANNA Paired with PULO ANNA
PALAU MOROTAI CHAIN Chain on air 4/14/45		06-Dec-44 01-Dec-44??					
NANTUCKET (SIASCONSET) Sta Letter: "S" 1H3/3H4 Sta Letter: "S" 1L0/1L1 Sta Letter: "N" 1H7/3H5 Code Name: SUGAR	1H3-M 1H7-M 3H4-M 3H5-M 3H5-S 1H5-S 1H4-M 1L0-M 1L1-M		<01 FEB 1950 ADDED 1971 CH RATE 1968 011200Q FEB 69 CH RATE 1968 1951 1949 18 DEC 1944 012200Z JUL 43	312400Z DEC 80 312400Z DEC 80 312400Z DEC 80 312400Z DEC 80 011200Q FEB 69 1968 1968 010001Z FEB 45 10-Dec-43 10-Dec-43	UNIT 10	USCG USCG	Paired with BACCARO Paired with MARSHALL POINT Paired with CAPE HATTERAS Paired with SANDY HOOK Paired with SANDY HOOK Paired with SANDY HOOK Paired with CAPE HATTERAS Paired with BODIE ISLAND Paired with BACCARO Paired with FENWICK Survey made DEC 1942 (1L0/1)
FENWICK MOVED TO C.H.	1L0-M	012200Z JUL 43	10-Dec-43	010001Z FEB 45			
NAULO POINT, LUZON Santa Cruz, Zambales PHILLIPPINES Sta Letter: "L" 1L6	1L6-M 1L6-M	04 JUL 1945	XFER 1967 19 JUL 1945	1972 XFER 67		PHILLIPPI USCG	Paired with TALAMPULAN Paired with TALAMPULAN
NEWTON POINT, UK Sta Letter "N" 1S1/1S2	1S1-S 1S2-S		1961 1961	312400Z DEC 77 312400Z DEC 77		HOST HOST	Paired with GARTHS NESS Paired with WEYBOURNE
NIIGATA, JAPAN HONSHU Sta Letter: "C" 2S3/2S4 ELMO 2	2S3-M 2S4-M 2S3-M 2S4-M 2H0-M 2H1-M		XFER 1978 XFER 1978 CH RATE 1964 CH RATE 1964 1952 1952	10-Mar-1997 10-Mar-1997 XFER 1967 XFER 1967 1964 1964	APO 68	JAPAN HOST USCG	Paired with MATSUMAE Paired with MATSUE Paired with MATSUMAE Paired with MATSUE Paired with MATSUMAE Paired with MATSUE
NIIHAU, HI Sta Letter: "Q" 2L0/2L1 HAWAIIAN CHAIN Chain on air 11/8/44	2L0-S 2L1-S	11 JUL 1944 27-Jul-44	19 OCT 1944 19 OCT 1944	1951 1951	UNIT 205	USCG	Paired with HAWAII Paired with FRENCH FRIGATE SH
NIPISAT, GREENLAND ALA: DOPE III	2S7-M 1L1-M			302400Z JUN 75 1954		HOST	Paired with CAPE CHRISTIAN Paired with CAPE CHRISTIAN
NOMAIKE, JAPAN KYUSHU AKA: ELM05, OSHIMA Sta Letter: "N" 2S6/2S7	2S6-M 2S7-M 2S6-M 2S7-M 2H3-M 2H4-M 4H3-M 4H4-M		XFER 1978 XFER 1978 CH RATE 1964 CH RATE 1964 May-53 May-53 251200 Jan 53 251200 Jan 53	10-Mar-1997 10-Mar-1997 XFER IN 67 XFER IN 67 1964 1964 May-53 May-53	ELM05 ELM05 ELM05 ELM05	JAPAN JAPAN HOST USCG USCG	Paired with TSUSHIMA Paired with GESASHI Paired with TSUSHIMA Paired with GESASHI Paired with PUSAN Paired with ICHI HANARE Paired with PUSAN Paired with ICHI HANARE
OCEAN CAPE, YAKUTAT, AK Sta Letter: "Y" 1L6/1L7	1L6-M 1L7-M		CH RATE 1961 CH RATE 1961	312400Z DEC 79 312400Z DEC 79		USCG	Paired with BIORKA ISLAND Paired with SPRUCE CAPE

	1L2-M		1952	1961				Paired with BIORKA ISLAND
	1L3-M		1952	1961				Paired with SPRUCE CAPE
OCHI-ISHI	2S1-S		XFER 1978	10-Mar-97		JAPAN		Paired with OKAMAISHI
	2S1-S		1964	XFER 1967		HOST		Paired with OKAMAISHI
	2S1-S		1959	1964		USCG		Paired with OKAMAISHI
OKAMAISHI, JAPAN	2S1-M		XFER 1978	10-Mar-1997		JAPAN		Paired with OCHIISHI
Sta Letter: "O" 2S1/2S2	2S2-M		XFER 1978	10-Mar-1997				Paired with HASAKI
	2S1-M		1964	XFER 1967		HOST		Paired with OCHIISHI
	2S2-M		1964	XFER 1967				Paired with HASAKI
	2S1-M		1959	1964		USCG		Paired with OCHIISHI
	2S2-M		1959	1964				Paired with HASAKI
ORAN, NORTH AFICA	3H5-M/SS				23002			Paired with BRINDISI
	3H5-M/SS			<15 OCT 1945				Paired with APOLLONIA
ORSUIAGSSUAQ, GREENLAND	1L4-S		1961	1977		HOST		Paired with SANDUR
Sta Letter "G" 1L4/1L5	1L5-S		1961	1977				Paired with KUTDLEK
O-SHIMA	2H7-S		CH RATE 1964	1967	Unit 349	USCG		Paired with IWO JIMA
Sta Letter "O" 4H5	4H6-S		01 FEB 1950	1964				Paired with IWO JIMA
JAPAN CHAIN	4H5-S	6-Dec-1945	25 DEC 1945	01 FEB 1950				Paired with IWO JIMA
Chain on air 9/1/45								
PALAU	4H6-S	Mar-45	280345MAR45	18-Apr-46	Unit 343	USCG		Paired with PULO ANNA
Sta Letter "U" 4H6					FPO 3016			
Ngesebus (Peleliu) Is	4H6-S	01-Dec-44	6-Dec-44	280345MAR45	UNIT 331	USCG		Paired with PULO ANNA
PALAU MOROTAI CHAIN								
Chain on air 4/14/45								
PAYA, ASSAM, INDIA	4L4-S	SEP 1944	SEP 1944	25 OCT 1945		HMRN		Paired with HOOGRIJAN
Letter name: "B"								
China-Burma-India Chain								
POINT ARENA, CA	1H5-M		CH RATE 1970	312400Z DEC 79	UNIT 403	USCG		Paired with POINT ARGUELLO
Sta Letter: "A"	1H6-M		CH RATE 1970	312400Z DEC 79				Paired with CAPE BLANCO
West Coast Chain	2H2-M		<01 FEB 1950	1970		USCG		Paired with POINT ARGUELLO
	2H3-M		<01 FEB 1950	1970				Paired with CAPE BLANCO
	1H6-S	15 JUN 1945	01 JUL 1945	1947		USAAC		Paired with POINT SUR
POINT ARGUELLO, CA	1H4-S		CH RATE 1970	312400Z DEC 79	UNIT 405	USCG		Paired with SAN MATEO
Sta Letter: "G" 1H5/1H7	1H5-S		CH RATE 1970	312400Z DEC 79				Paired with POINT ARENA
Sta Letter: "P" 1H4	2H1-S		1964	1970				Paired with SAN MATEO
West Coast Chain	2H2-S		1-Feb-50	1970		USCG		Paired with POINT ARENA
	1H7-S	15 JUN 1945	01 JUL 1945	1947		USAAC		Paired with POINT SUR
POINT GRENVILLE, WA	1L0-M		CH RATE 1970	312400Z DEC 79		USCG		Paired with CAPE BLANCO
Sta Letter: "W" 1L0/1L1	1L1-M		CH RATE 1970	312400Z DEC 79				Paired with SPRING ISLAND
	2H4-M	JUN 1945	JUL 1945	1970		USCG		Paired with CAPE BLANCO
	2H5-M		OCT 1945	1970		USCG		Paired with SPRING ISLAND

POINT SUR Sta Letter: "S" West Coast Chain	1H6-M 1H7-M	15 JUN 1945 15 JUN 1945	01 JUL 1945 01 JUL 1945	1947 1947	UNIT 404	USAAC	Paired with POINT ARENA Paired with POINT ARGUELLO
PORSPODOR, FRANCE	1S3-S 1S4-S		1961 1961	1976 1976		HOST	Paired with EAST BLOCKHOUSE Paired with ESTACA DE VARES
PORT-AUX-BASQUES Sta Letter "P" 1L7	1H1-S 1H1-S 1L7-S		XFER 9/1/1953 1-Feb-50 26-Oct-45	31 DEC 1981 XFER 1953 1-Feb-50	UNIT 79	HOST USCG USCG	Paired with DEMING Paired with DEMING Paired with DEMING
PORT ISABEL, TX Sta Letter: "P" 3H3 Sta Letter: "T" 2L6 Gulf of Mexico Training Chain	3H3-S 2L6-S	01 MAY 1945	1968 23 MAY 1945	312400Z DEC 80		USCG USAAC	Paired with GALVESTON Paired with MATAGORDA, TX
PORTO SANTO, MADERIA IS Sta Letter "P" 1S5/1S6	1S5-S 1S6-S		1965 1965	1977 1977		HOST	Paired with SAGRES Paired with SANTA MARIA
PULO ANNA, PALAU Sta Letter: "T" 4H6/4H7 PALAU MOROTAI CHAIN Chain on air 4/14/45	4H6-M 4H7-M 4H6-M 4H7-M		Apr-45 28-Apr-45 01-Dec-44 01-Dec-44	18-Apr-46 18-Apr-46 6-Dec-44 6-Dec-44	Unit 344 UNIT 332	USCG	Paired with PALAU Paired with MOROTAI Paired with PALAU Paired with MOROTAI
PURI, ORISSA, INDIA Sta Letter: "Y" China-Burma-India Chain	4L6-S 4L7-S	FEB 1945 FEB 1945	FEB 1945 FEB 1945	NOV 1945 NOV 1945		HMRN	Paired with CHAR CHOPLI Paired with COCONADA
PUSAN, KOREA ELMO4 REPLACED BY TSUSHIMA	2H2-M 2H3-S	5-Jan-1953 5-Jan-1953	01 JAN 1954 01 JAN 1954	1964 1964	ELMO 4 FPO 966	USCG	Paired with MATSUE (MIHO BAY) Paired with OSHIMA (NOMAIKE)
SAGRES POINT, PORTUGAL NAME CHANGED: 1971 Sta Letter "S" 1S5	1S5-M		1965	1977		HOST	Paired with PORTO SANTO
SAIPAN ISLAND, MARIANAS Sta Letter: "A" 2L3 Sta Letter: "S" 4H3 NAME CHANGED: 1967 MARIANAS CHAIN Chain on air 12/26/44	2L3-M 4H3-M	28 NOV 1944	1953 16-Dec-1944	312400 DEC 77 1953	Unit 337 FPO 3245	USCG	Paired with GUAM Paired with GUAM (COCOS)
SANDUR, ICELAND Sta Letter: "S" 1L4	1L4-M		1961	1977		HOST	Paired with ORSSUIAGSSUAQ
SAN MATEO POINT SAN MATEO, CA NAME CHANGED: 1965 Sta Letter: "M" 1H4	1H4-M 2H1-M		CH RATE 1970 1964	312400Z DEC 79 1970		USCG	Paired with POINT ARGUELLO Paired with POINT ARGUELLO
SAN SALVADOR, BWI Sta Letter: "B" 3L5 Sta Letter: "S" 3L3	3L5-M 3L3-M 2L3-M 2L3-M		ADD 1969 CH RATE 1968 1959 1955	312400Z DEC 80 312400Z DEC 80 1968 1959		USCG USCG USCG USCG	Paired with JUPITER Paired with SOUTH CAICOS Paired with SOUTH CAICOS Paired with GRAND TURK

SANDY HOOK, NJ Sta Letter "J" 3H5	3H5-S 3H5-M 1H5-M		011200Q FEB 69 CH RATE 1968 1951	312400Z DEC 80 011200Q FEB 69 1968		USCG	Paired with NANTUCKET Paired with NANTUCKET Paired with NANTUCKET
SANTA MARIA, AZORES Sta Letter "I" 1S7/1S6	1S6-M 1S7-M		1965 1965	1977 1977		HOST	Paired with PORTO SANTO Paired with FLORES
SANZAO	1S4-M 1S6-M					CHINA	Paired with SHIBEISHAN Paired with LONGGUN
SHANGGULIN	1L1-S					CHINA	Paired with CHENGSHANTOU
SHAW, SHETLANDS	1L6b-S	3-Nov-44	15 NOV 1944	Oct-45		HOST	Paired with SKUVANES
SHEYANGHE	1L4-M 1L5-M					CHINA	Paired with CHENGSHANTOU Paired with GOUJI
SHIBEISHAM	1S3-M 1S4-S					CHINA	Paired with TIADASHAN Paired with SANZAO
SHITANG	1S1-M 1S2-M					CHINA	Paired with GOUJI Paired with TIADASHAN
SIR GRAHAM, MOORE IS Letter name: "W" BANDA SEA CHAIN	2H4-M 2H5-M	06 JUN 1944 JUL 1944	24 JUL 1944 AUG 1944			USAAC	Paired with BATHURST ISLAND Paired with CHAMPAGNY ISLAND
SKUVANES, FAEROE IS DEMARK Sta Letter: "U" 1L6/1L7	1L7-M 1L6-M 1L6-M-b 1L6-M 1L5-M	3-Nov-44 15-Dec-43 25-Nov-43	Before 1961 Before 1961 15 NOV 1944 16 JUL 1944 16-Jul-44	312400Z DEC 77 312400Z DEC 77 Oct-45 Jan-45 Oct-45		HOST	Paired with VIK Paired with HEBRIDES Paired with SHAW Paired with HEBRIDES Paired with VIK
SOUTH CAICOS, BWI StaLetter: "C" 3L3/3L2	3L2-S 3L3-S 2L2-S 2L3-S		CH RATE 1968 CH RATE 1968 1959 1959	312400Z DEC 80 312400Z DEC 80 1968 1968		USCG	Paired with CAPE SAN JUAN Paired with SAN SALVADOR Paired with CAPE SAN JUAN Paired with SAN SALVADOR
SPRING ISLAND, VANCOUVER Sta Letter: "V" 1L1/1L4	1L4-S 1L1-S 2H5-S		ADDED 1970 CH RATE 1970 OCT 1945	30 OCT 1977 30 OCT 1977 1970		HOST	Paired with GRAY'S POINT Paired with POINT GRENVILLE Paired with POINT GRENVILLE Fire destoryed generators: 30 OCT 1977
SPRUCE CAPE Sta Letter: "K" 1L7	1L7-S 1L3-S		CH RATE 1961 Feb-52	31-Dec-79 1961		USCG	Paired with OCEAN CAPE Paired with OCEAN CAPE
ST. MATTHEW Sta Letter: "M" 1L1 Code Name: Mike	1L1-S 10 HRS 16 HRS	11-Sep-43 18-Oct-43 10-Nov-43	10-Jul-44	OCT 1946	Unit 05 FPO 84	USCG	Paired with ST. PAUL



WAKE ISLAND Sta Letter: "W" 1H1 On Peale Is until 1963	1H1-S 1L0-S	CH RATE 1970 011300 FEB 51	312400Z DEC 77 1970	FPO 1181	USCG	Paired with ENIWETOK Paired with ENIWETOK
WEYBOURNE, UK Sta Letter "W" 1S2	1S2-M	1961	312400Z DEC 77		HOST	Paired with NEWTON POINT
YAP ISLAND, CAROLINE IS Sta Letter: "Y" 2L1/2L2 NAME CHANGED: 1967	2L1-M 2L2-M	1-Feb-65 1-Feb-65	312400Z DEC 77 312400Z DEC 77	Z40180 FPO 3014	USCG	Paired with ANGUAR Paired with GUAM
YONAKUMI CHINA SEA CHAIN	4H1		NOV 1945	Unit 416		NEVER WENT ON-AIR Work ceased late NOV 1945
ZHUANGHE	1L0-S				CHINA	Paired with CHENGSHANTOU

#### STATION PAIRS

STATION PAIRS	RATE	ON-AIR	OPERATIONAL	OFF-AIR	UNIT NO	STAFFED	REMARKS
AC (HOOGRIJAN/AMGURI)	4L3	SEP 1944	SEP 1944	25 OCT 1945		USAAC	Survey APR 1944
AB (HOOGRIJAN/PAYA)	4L4	SEP 1944	SEP 1944	25 OCT 1945		USAAC	Survey APR 1944
CG (FOLLY IS/HOBE SOUND)	1H2	17 JAN 1945	15 MAY 1945	1949		USCG	Survey NOV44 - JAN 45
CH (FOLLY IS/BODIE IS)	1H1	25 MAR 1945	11 APR 1945 21 AUG 1945	1949		USCG	Survey NOV/DEC 1944
CT (AMCHITKA/ATTU)	1L0	DEC 1943	08 JUN 1944	1950		USCG	Survey FALL 1943
DB (DEMING/BACCARO)	1L2	01 OCT 1942	01 OCT 1942	1950		HOST	Survey SUMMER 1942
DE (KUNYAN/LUTZE)	4L2	16 DEC 1944	FEB 1945			USAAC	Survey OCT 1944
DF (KUNYAN/AMI)	4L1	16 DEC 1944	FEB 1945			USAAC	Survey OCT 1944
DK (MAJORO/KWAJALEIN)	2L2	28 SEP 1944	01 DEC 1944	1951		USCG	Survey MAR 1943
DL (MAJORO/MAKIN)	2L3	28 SEP 1944	01 DEC 1944	1951		USCG	Survey MAR 1944
DP (DEMING/BONAVISTA)	1L7	15 MAR 1945	26 OCT 1945	1950		HOST	Survey JUL 1944
GF (HANCHUNG/AMI)	4L0/SS	APR 1945	APR 1945	NOV 1945			Survey MAR/APR 1945
HP (ULITHI/SULUAN)	4H1	24 MAR 1945	07 APR 1945	01 AUG 1945		USCG	Survey FEB 1945
HV (ULITHI/GUAM)	4H2	27 DEC 1944	12 JAN 1945	1953		USCG	Survey DEC 1944
KJ (IWO JIMA/OKINAWA)	4H4	16 MAY 1945	10 JUN 1945	1950		USCG	Survey APR/MAY 1945
KO IWO JIMA/OSHIRAMA)	4H5	1-Dec-45	25-Dec-45	1950		USCG	Survey OCT 1945

LB (NAWLO PT/TALAMPULON)	1L6	4 JUL 1945	19 JUL 1945			Survey MAY/JUN 1945
LN (BATTLE HAR/FREDERICK)	1L4	MAR 1943	15 JAN 1944	1961		HOST Survey JUL/AUG 1942
LV (BATTLE HAR/BONAVISTA)	1L3	MAR 1943	15 JAN 1944	1983		HOST Survey JUL 1942
MR (MATAGORGA/CAMERON)	2L5	01 MAY 1945	23 MAY 1945		AMRY AF	Survey MAR/APR 1945
MT (MATAGORDA/PORT ISABEL)	2L6	01 MAY 1945	23 MAY 1945		AMRY AF	Survey MAR/APR 1945
NP (MAPIA/SULUAN)	4H0	24 MAR 1945	07 APR 1945	25 SEP 1945		Survey FEB 1945
PD (GEORGE FIELD/DANVILLE)	2H6	JUL 1945	JUL 1945			Survey JUN 1945
PM (ST PAUL/ST MATTHEW)	1L1	SEP 1943	10 JUL 1944	OCT 1946	USCG	Survey SEP 1942
PS (GEORGE FIELD/STURGIS)	2H7	JUL 1945	JUL 1945			Survey JUN 1945
PU (ST PAUL/UMNAK)	1L2	SEP 1943	10 JUL 1944	1950	USCG	Survey SEP 1942
QG (NIIHAU/FRENCH FRIGAT)	2L1	27 JUL 1943	19 OCT 1944	01 JAN 1947	USCG	Survey DEC 1943
QJ (NIIHAU/HAWAII)	2L0	11 JUL 1944	19 OCT 1944	01 JAN 1947	USCG	Survey DEC 1943
RB (TARUMPITAO/TALAMPULON)	1L7	4 JUL 1945	19 JUL 1945			Survey MAY/JUN 1945
RE (GARDNER/BAKER)	2L4	28 SEP 1944	22 NOV 1944	01 JAN 1947	USCG	Survey FEB 1944
RF (GARDNER/ATAFU)	2L5	28 SEP 1944	22 NOV 1944	01 JAN 1947	USCG	Survey FEB 1944
SA (PT SUR/PT ARENA)	1H6	15 JUN 1945	01 JUL 1945	<1950	USAAC	Survey MAR/APR 1945
SB (NANTUCKET/BACCARO)	1L1	012200ZJUL43	10 DEC 1943	1950	USCG/HOST	Survey DEC 1942
SG (PT SUR/PT ARGUELLO)	1H7	15 JUN 1945	01 JUL 1945	<1950	USAAC	Survey MAR/APR 1945
SH (NANTUCKET/BODIE IS)	1L0	18 DEC 1944	01 FEB 1945	1949	USCG	Survey SEP 1944
SV (SAIPAN/GUAM)	4H3	28 NOV 1944	16 DEC 1944	1953	USCG	Survey SEP/OCT 1944
TM (PULO ANNA/MOROTAI)	4H7	06 DEC 1944	14 JUN 1945	01 JAN 1947	USCG	Survey NOV 1944
TU (PULO ANNA/PALAU)	4H6	06 DEC 1944	14 JUN 1945	01 JAN 1947	USCG	Survey NOV 1944
UA (SANDUR/HEBRIDES)	1L6	15 DEC 1943	16 JUL 1944	1977	HOST	Survey 7 JUN 1943
UK (SKUVANES/VIC)	1L5	25 NOV 1943	16 JUL 1944	1945	HOST	Survey 7 JUN 1943
UW (SKUVANES/SHAW)	1L6-b	03 NOV 1944	15 NOV 1944	1945	HOST	
WA (SIR GRAHAM/BATHURST)	2H4 2H5	06 JUN 1945 JUL 1944	24 JUL 1945 AUG 1944			Survey APR/MAY 1945 Survey JAN 1944/OCT 1945
WN (SIR GRAHAM/CHAMPAGNY)	2H4	06 JUN 1945	24 JUL 1945			Survey JAN 1944
XB (CHAR CHAPLI/PAYA)	4L5	MAR 1945	MAR 1945	25 OCT 1945	UK?	Survey DEC 1944
XY (CHAR CHAPLI/PURI)	4L6	FEB 1945	FEB 1945		UK?	Survey DEC 1944
ZY (COCONADA/PURI)	4L7	FEB 1945	FEB 1945		UK?	Survey DEC 1944

**LORAN "A" MONITORS**



ADAK WESTERN ALEUTIANS	1L0/1	DEC 1943	8-Jun-44	1950	UNIT 64	USCG	Amchitka/Attu/StMatthew/StPaul
ANGAUR ISLAND, PALAU IS PALAU MOROTAI CHAIN	4H6/7	06 DEC 1944	14 JUN 1945	01 JAN 1947	UNIT 346	USCG	Pulo Anna/Palau/Morotai
CANTON ISLAND THE PHOENIX CHAIN Chain on air 12/16/44	2L4/5	28 SEP 1944	22-Nov-44	May-46	UNIT 94 FPO 1301	USCG	Atafu/Gardner/Baker
CAPE SARICHEF THE BERING SEA CHAIN	1L2		Dec-43	04-Dec-44	UNIT 25	USCG	St. Paul/Unmak
CHATHAM Moved fm Shakey Head	1L0/1L1		1943	01 JAN 1947	UNIT 21	USCG	Nantucket/Fenwick/Baccaro
ENIWETOK Parry Island	1L0/1L1	24-Jan-51					Kwajalein/Wake
KAUAI THE HAWAIIAN CHAIN Chain on air 11/8/44	2L0/1	8-Jul-44	19 OCT 1944	01 JAN 1947	UNIT 207	USCG	Hawaii/French Frigate/Niihau
MAJURO Marilyn/Enigu THE MARSHALL CHAIN Chain on air 12/16/44	2L2/3	28 SEP 1944	01 DEC 1944	1951	UNIT 85 FPO 3710	USCG	Makin/Majuro/Kwajalein
Okinawa China Sea Chain					Unit 504		Never went on Air
RITIDIAN POINT, GUAM THE MARIANAS CHAIN Chain on air 12/26/44	4H2/3	4-Dec-44	1-Mar-1945	OCT 1946	Unit 339	USCG	Saipan/Ulithi/Guam
SANKATY HEAD	1L0/1	Dec-41	Dec-41	1943		USCG	Montauk/Fenwick
ST. GEORGE ISLAND, AK THE BERING SEA CHAIN	1L2	10 JUL 1944	04-Dec-44	1-Jul-47	Unit 95	USCG	St. Paul/Unmak
Twillingate, Newfoundland	1L2/1L3		1943	1947	Unit 65	USCG	Bonavista/Battle Harbour/ Port aux Basques
VENICE, FLA	3H1		1970			USCG	

#### LORAN "A" COMMAND GROUPS

PHOENIX ISLANDS	2L4/5	1944	Sep-44	Nov-45	Unit 90	USCG	Phoenix Chain
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### SKYWAVE SNYCHRONIZED

Skywave Synchronized was first tested 10 April 1943 between Fenwick Island, Delaware and Bonavista, Newfoundland. Extensive evaluation flights by U.S. and Allied Forces revealed an average position-fixing error of 1-2 miles. Source: The Loran-C System of Navigation Feb 1962 Jansky & Bailey

STATION NAME	RATE	ON-AIR	IN SERVICE CONTINUOUS OP	OFF-AIR	UNIT No.	MANNED BY	Station Paired With
<b>US SKYWAVE SNYCHRONIZED</b>							
EAST BREWSTER, MASS			FALL 1943	Spring 1944			Paired with Gooseberry Falls
GOOSEBERRY FALLS, MT			FALL 1943	Spring 1944			Paired with East Brewster
MONTAUK POINT, NY			FALL 1943	Spring 1944			Paired with Key West
KEY WEST, FL			FALL 1943	Spring 1944			Paired with Montauk Pt
<b>EUROPEAN SS SYSTEM</b>							
PORT ERROL, SCOTLAND	3H4-M		OCT 1944	<15 OCT 1945	700		Paired with Bizerte
BIZERTE, TUNISIA	3H4-S		OCT 1944	<15 OCT 1945	23001		Paired with Port Errol
ORAN, ALGERIA	3H5-M		OCT 1944	<15 OCT 1945	23002		Paired with Appollonia Paired with Brindisi
APPOLLONIA, LIBYA MOVED TO BRINDSI	3H5-S		OCT 1944	<15 OCT 1945	23004		Paired with Oran
BRINDISI, ITALY	3H5-S			<15 OCT 1945			Paired with Oran
<b>CHINA-BURMA-INDIA</b>							
CHAR CHAPLI IS., BENGAL, INDIA Sta Letter: "X"	4L5-M	MAR 1945	MAR 1945	25 OCT 1945		HMRN	Paired with PAYA
PAYA, ASSAM, INDIA Letter name: "B"	4L5-S	MAR 1945	MAR 1945	25 OCT 1945		HMRN	Paired with CHAR CHAPLI IS
HANCHUNG, SZECHWAN, CHINA Letter name: "G" China-Burma-India Chain	4L0-M	APR 1945	APR 1945	NOV 1945		USAAC	Paired with AMI
AMI, YUNNAN, CHINA Sta Letter "F"	4L0-S	APR 1945	APR 1945	NOV 1945		USAAC	Paired with HANCHUNG
<b>SOUTHWEST PACIFIC</b>							
ULITHI Sta Letter: "H" Potangeras Is./Falalop	4H1-M	24 MAR 1945	07 APR 1945	01 AUG 1945		USAAC	Paired with SULUAN
MAPIA, PHILIPPINES Sta Letter: "N" 4H0 Pegun Island	4H0-M	24 MAR 1945	07 APR 1945	25 SEP 1945		USCG	Paired with SULUAN

SULUAN, PHILIPPINES      4H0-S    24 MAR 1945    07 APR 1945    25 SEP 1945      USAAC    Paired with MAPIA  
 Sta Letter: "P"          4H1-S    24 MAR 1945    07 APR 1945    01 AUG 1945      Paired with ULITHI

**MF/HF LONG BASELINE LORAN**

Skywave Long Baseline was tested by the Coast Guard shortly after WWII. It was similar to SS LORAN but operated at 10.585 Mc/s daytime and at 2 Mc/s night time for synchronization purposes. Preliminary tests were conducted between Catham, Mass and Fernandina Fl, in May 1944. These tests were followed by additional tests between Hobe Sound, Fl and Point Chinato, PR in Dec-Jan 1945-46. Results of these tests showed the basic concepts to be sound, but the difficulty in obtaining a suitable frequency allocation terminated development. Source: The Loran-C System of Navigation Feb 1962 Jansky & Bailey

**LORAN "C"**

LORAN C original towers 625ft. In 1961, the Serry Gyroscope Company wrote specs for the 1350ft tower at Port Clarence.

The first LORAN C system was installed on the US East Coast in 1957 by the Sperry Gyroscope Company, under the supervision of the USCG, to provide special purpose navigation service for the US Navy. The MEDSEA chain was the first Loran C operational chain (1959)

East Coast Chain calibration completion date: 28 AUG 1962.

June 1962                      17 Loran C stations in operation

The US West Coast, Canadian West, and Gulf of Alaska Chains were the LORAN C chains specifically for civil use

Key personnel of CG Loran "C" program: Capt Pete Colmar, Capt Zeke Bruner, Cdr Helmer Pearson, Cdr Dick Pascuiti, Lt Al Manning, Bob Frank

GRI was changed from oddball rate of CYTAC to rates compatible w/LORAN standards

The multiple pulsing was retained, new phase code by Bobb Frank & Friend.

Mid 60's - Elmer Lipsey/Arnold Swagerty - CG using LORAN C for comms. - SEASIA--- USN used Yankee Clipper/Clarinet Pilgrim for comms. WESPAC Chain.

STATION NAME	RATE	ON-AIR	IN SERVICE CONTINUOUS OP	OFF-AIR	UNIT No.	MANNED BY	Station Paired With
ACTEUR	SEC OFF		1965	1993	96-73130		
AIR STATION NAPLES MED SEC	SEC OFF		1958	1966			
AFIF, SA SAUDI ARABIA NORTH SAUDI SOUTH	8990-M 7170-X		1983 1983			SA	AL LITH. AL MUWASSAM. AR RUQI, ASH SHAYKH, SALWA AL KHAMASIN, AL LITH, AL MUWASSAM, SALWA
AL LITH, SA SAUDI ARABIA NORTH SAUDI SOUTH	8990-Y 7170-Y		1983 1983			SA	AFIF. AL MUWASSAM. AR RUQI, ASH SHAYKH, SALWA AL KHAMASIN, AFIF, AL MUWASSAM, SALWA
AL KHAMASIN, SA SAUDI SOUTH	7170-M		1983			SA	AL LITH, AFIF, AL MUWASSAM, SALWA
AL MUWASSAM, SA							

SAUDI ARABIA NORTH	8990-Z		1983			SA	AFIF. AL LITH. AR RUQI, ASH SHAYKH, SALWA
SAUDI SOUTH	7170-Z		1983				AL KHAMASIN, AFIF, AL LITH, SALWA
AR RUQI, SA							
SAUDI ARABIA NORTH	8990-W		1983			SA	AFIF. AL MUWASSAM. AL LITH, ASH SHAYKH, SALWA
ASH SHAYKH, SA							
ASH SHAYKH, SA	8990-X		1983			SA	AFIF. AL MUWASSAM. AL LITH, AR RUQI, SALWA
ANGISSOQ							
NORTH ATLANTIC CHAIN	SL-7-M	1963	1966	25 FEB 1975		HOST	CAPE RACE, EJDE, SANDUR
NORTH ATLANTIC CHAIN	7930-M	RATE CHANGE	25 FEB 1975	312359Z DEC 83			CAPE RACE, EJDE, SANDUR
ICELANDIC CHAIN	9980-W	RECONFIGURED	1-Jun-83	31-Dec-94			EDJE, SANDUR
LABRADOR SEA	7930-X	Aug-83	010000Z JAN 84	31-Dec-94			CAPE RACE, FOX HARBOR
ATTU							
BERING SEA CHAIN	SL-2-Y		1960	1969	17-40191	USCG	PORT CLARENCE, SITKINAK, ST PAUL
NORTH PACIFIC CHAIN	SH-7-X	RATE CHANGE	1969	25 FEB 1975			PORT CLARENCE, SITKINAK, ST PAUL
NORTH PACIFIC CHAIN	5930-X	RATE CHANGE	25 FEB 1975	1-Mar-77			PORT CLARENCE, SITKINAK, ST PAUL
NORTH PACIFIC CHAIN	9990-X	RATE CHANGE	1-Mar-77				KODIAK*, NARROW CAPE*, PORT CLARENCE, ST PAUL
BARRIGADA, GUAM	9970-Z		1987	1-Jul-93		USCG	GESASHI, HOKKIDO, IWO JIMA, MARCUS
Replaced Yap							
NORTHWEST PACIFIC							
BARANOVICHI, RUSSIA							
WESTERN USSR CHAIN	8000-Z					USSR	KUIBYCHEW, ORIOL, PETROVAVODESK, SIMFEROPOL
BAUDETTE							
GREAT LAKES CHAIN	8970-Y	Feb-80	31 Mar 80			USCG	DANA, MALONE, SENECA, BOISE CITY*
NORTH CENTRAL	8290-W	DEC 1990	161700Z APR 91				GILLETTE, HAVRE, WILLIAMS LAKE
BILBEIS							
SUEZ CANAL CHAIN	4990-M	SUMMER 1982				HOST	RAS EL SUDR, SHALABI EL RUDI
BO, NORWAY							
NORWEGIAN SEA CHAIN	SL-6-X	1959	Mar-60	1964		HOST	EDJE, JAN MAYEN, SANDUR

NORWEGIAN SEA CHAIN	SL-0-X	RATE CHANGE	1964	1966		EDJE, JAN MAYEN, SANDUR, SYLT
NORWEGIAN SEA CHAIN	SL-3-X	RATE CHANGE	1966	1975		EDJE, JAN MAYEN, SANDUR, SYLT
Chain Code Name: Rail	7970-X	NAME CHANGE	25 FEB 1975	312400 Dec 1994		EDJE, JAN MAYEN, SANDUR, SYLT
2nd OP Chain						
BOISE CITY, OK						USCG
SOUTH CENTRAL	9610-M		Apr-91			GILLETTE, GRANGEVILLE, LAS CRUCES, RAYMONDVILLE, SEARCHLIGHT
GREAT LAKES	8970-Z					BAUDETTE, DANA, MALONE, SENECA
CAROLINA BEACH, NC			1945	CYCLAN	05-40117	
AKA: CAPE FEAR, NC	MASTER		1952	CYTAC		
U.S. EAST COAST	S0-M		1957	12 AUG 1957	31-Aug-58	USAF JUPITER, MARTHA'S VINEYARD
U.S. EAST COAST	S0-M			???	Aug-62	JUPITER, MARTHA'S VINEYARD
U.S. EAST COAST	SL-0-M			281200Z AUG 62	1965	USCG JUPITER, NANTUCKET
U.S. EAST COAST	SS-0-M	RATE CHANGE		1966	JAN 1967	CAPE RACE, JUPITER, NANTUCKET
U.S. EAST COAST	SS-0-M			15 MAY 1967	6-Jan-69	CAPE RACE, DANA, JUPITER, NANTUCKET
U.S. EAST COAST	SS-7-M	RATE CHANGE		6 JAN 1969	25 FEB 1975	CAPE RACE, DANA, JUPITER, NANTUCKET, WILDWOOD"T"
U.S. NORTHEAST CHAIN	9930-M	RATE CHANGE		25 FEB 1975	9-Sep-78	CAPE RACE, DANA, JUPITER, MALONE, NANTUCKET, WILDWOOD
U.S. SOUTHEAST CHAIN	7980-Z	RATE CHANGE		9-Sep-78		GRANGEVILLE, JUPITER, MALONE, RAYMONDVILLE
U.S. NORTHEAST CHAIN	9960-Y	RATE CHANGE		9-Sep-78		CARIBOU, DANA, NANTUCKET, SENECA, WILDWOOD
CAPE RACE, NEWFOUNDLAND	SS-0-X		1966	1966	06 JAN 69	HOST CAROLINA, CAPE RACE, DANA, JUPITER, NANTUCKET
NORTH ATLANTIC CHAIN	SL-7-Z			1966	25 FEB 1975	EJDE, SANDUR, ANGISSOQ
U.S. EAST COAST	SS-7-X	RATE CHANGE		06 JAN 1969	25 FEB 1975	CAROLINA BEACH, DANA, JUPITER, NANTUCKET, WILDWOOD"T"
U.S. EAST COAST	9930-X	NAME CHANGE		25 FEB 1975	9-Sep-78	CAROLINA BEACH, DANA, JUPITER, MALONE, NANTUCKET, WILDWOOD
NORTH ATLANTIC CHAIN	7930-Z	NAME CHANGE		25 FEB 1975	312359Z DEC 83	EJDE, SANDUR, ANGISSOQ
ICELANDIC CHAIN**	9980-Z			1-Jun-83	051630Z OCT 83	EJDE, SANDUR, ANGISSOQ
CANADIAN EAST COAST	5930-Y	01 FEB 80		010000Z JAN 84	2-Feb-93	CARIBOU, FOX HARBOR, NANTUCKET
LABRADOR SEA	7930-W			010000Z JAN 84	2-Feb-93	ANGISSOQ, FOX HARBOR
CANADIAN EAST COAST	5930-Y	22-Mar-93		Aug-93		CARIBOU, FOX HARBOR, NANTUCKET
LABRADOR SEA	7930-W	22-Mar-93		Aug-93	31-Dec-94	ANGISSOQ, FOX HARBOR
NEWFOUNDLAND CHAIN	7270-W			1995		CANADIAN COMFORT COVE, FOX HARBOR
CARIBOU, ME		(PRESQUE ISLE LORAN C STATION)				
CANADIAN EAST COAST	5930-M	01 FEB 80		010000Z JAN 84		CAPE RACE, FOX HARBOR, NANTUCKET
U.S. NORTHEAST CHAIN	9960-W			9-Sep-78		CAROLINA BEACH, DANA, NANTUCKET, SENECA, WILDWOOD
CATANZARO, FRANCE	8940-Y			Jun-85		FRENCH LESSAY, SOUSTONS, SYLT
COMFORT COVE						
NEWFOUNDLAND CHAIN	7270-M			1995		CANADIAN CAPE RACE, FOX HARBOR
COMLANTAREA	atl			8/1/1977		
COMPACAREA	ptl					
COMMEDSEC	SEC		1958	1958	1966	USCG
CON SON, S. VIETNAM						
SE ASIA CHAIN	S-3-Y	8 SEP 66		280400 Oct 66	1969	USCG LAMPANG, SATAHIP

	SH-3-Y	RATE CHANGE	1969	291246Z APR 75		LAMPANG, SATAHIP
DANA, IN					USCG	
U.S. EAST COAST	SS-0-Z	1967	1967	06 JAN 1969		CAROLINA BEACH, CASPE RACE, JUPITER, NANTUCKET
U.S. EAST COAST	SS-7-Z	RATE CHANGE	06 JAN 1969	25 FEB 1975		CAROLINA BEACH, CAPE RACE, JUPITER, NANTUCKET, WILDWOOD"T"
U.S. EAST COAST	9930-Z	NAME CHANGE	25 FEB 1975	9-SEP-78		CAROLINA BEACH, CAPE RACE, JUPITER, MALONEW, NANTUCKET, WILDWC
GREAT LAKES	8970-M	Feb-80	31 Mar 80			BAUDETTE, BOISE CITY*, MALONE, SENECA
U.S. NORTHEAST COAST	9960-Z	RATE CHANGE	6 MAY 79			CAROLINA BEACH, CARIBOU, NANTUCKET, SENECA, WILDWOOD
DENNIS						
ST MARYS RIVER	4930-Z	1975	7-Apr-76	010500Z JAN 81	USCG	DRUMMOND, GORDON LAKE, PICKFORD
DRUMMOND IS, MI						
ST MARYS RIVER	4930-Y	1975	7-Apr-76	010500Z JAN 81	USCG	DENNIS, GORDON LAKE, PICKFORD
EJDE, FAEROES					HOST	
NORWEGIAN SEA CHAIN	SL-6-M	1959	Mar-60	1964		BO, JAN MAYEN, SANDUR
2nd OP Chain						
Chain Code Name: Rail						
NORWEGIAN SEA CHAIN	SL-0-M	RATE CHANGE	1964	1966		BO, JAN MAYEN, SANDUR, SYLT
NORWEGIAN SEA CHAIN	SL-3-M	RATE CHANGE	1966	1975		BO, JAN MAYEN, SANDUR, SYLT
NORTH ATLANTIC CHAIN	SL-7-X		1966	1975		CAPE RACE, SANDUR, ANQISSOQ
NORWEGIAN SEA CHAIN	7970-M	NAME CHANGE	25 FEB 1975	312400Z DEC 94		BO, JAN MAYEN, SANDUR, SYLT
NORTH ATLANTIC CHAIN	7930-X	NAME CHANGE	25 FEB 1975	312359Z DEC 83		CAPE RACE, SANDUR, ANQISSOQ
ICELANDIC CHAIN	9980-X	RECONFIGURED	1-Jun-83	31-Dec-94		ANGISSOQ, SANDUR
ESTARTIT, SPAIN					USCG	
MEDSEA CHAIN	SL-4-Z	01-Aug-61	Oct-62	1967		KARGABARUM, MATRATIN, SELLIA MARINA
Chain Code Name: TACK						
1st Overseas OP Chain						
	SL-1-Z	RATE CHANGE	1967	25 FEB 1975		KARGABARUM, MATRATIN(67-70), SELLIA MARINA, LAMPEDUSA(72-75)
	7990-Z	RENAME RATE	25 FEB 1975	312400Z DEC 94		KARGABARUM, SELLIA MARINA, LAMPEDUSA
FALLON, NV						
U.S. WEST COAST CHAIN	9940-M	15-Oct-76	25-Mar-77		12-40139	USCG GEORGE, MIDDLETOWN, SEARCHLIGHT
FOX HARBOR						
CANADIAN EAST COAST	5930-Z	Aug-83	010000Z JAN 84		HOST	CAPE RACE, CARIBOU, NANTUCKET
LABRADOR SEA	7930-M	Aug-83	010000Z JAN 84	31-Dec-94		ANGISSOQ, CAPE RACE
NEWFOUNDLAND CHAIN	7270-X		1995		CANADIAN	COMFORT COVE, CAPE RACE
GEORGE, WA						
U.S. WEST COAST CHAIN	9940-W	15-Oct-76	25-Mar-77		USCG	FALLON, MIDDLETOWN, SEARCHLIGHT
CANADIAN WEST COAST	5990-Y	1-Mar-77	30-Apr-77			PORT HARDY, SHOAL COVE, WILLIAMS LAKE
GESASHI						

NORTHWEST PACIFIC CHAIN	SS-3-Y	25-Jul-63	21-Jan-64	Mar-64	14-40179	USCG	HOKKAIDO, IWO JIMA, MARCUS, YAP
NORTHWEST PACIFIC CHAIN	SS-3-Y	17-Mar-64	25-May-64	21-Dec-64			HOKKAIDO, MARCUS
NORTHWEST PACIFIC CHAIN	SS-3-Y	21-Dec-64	1-Jan-65	25 FEB 1975			HOKKAIDO, IWO JIMA, MARCUS, YAP
NORTHWEST PACIFIC CHAIN	9970-Y	NAME CHANGE	25 FEB 1975	202300Z FEB 81			HOKKAIDO, IWO JIMA, MARCUS, YAP
NORTHWEST PACIFIC CHAIN	7930-X		210300Z FEB 81	310300Z MAR 81			HOKKAIDO, MARCUS, YAP
NORTHWEST PACIFIC CHAIN	9970-Y		310700Z MAR 81	Sep-93			HOKKAIDO, IWO JIMA, MARCUS, YAP*, BARRIGADA*
							POHANG, HOKKAIDO, KWANJU, OSAN
Koran Chain	5970-Z						
GILLETTE, WO						USCG	
NORTH CENTRAL	8290-X	DEC 1990	161700Z APR 91				BAUDETTE, HAVRE, WILLIAMS LAKE
SOUTH CENTRAL	9610-V		Apr-91				BOISE CITY, GRANGEVILLE, LAS CRUCES, RAYMONDVILLE, SEARCHLIGHT
GORDON LAKE							
ST. MARYS RIVER	4930-M	1975	7-Apr-76	010500Z JAN 81		USCG	DENNIS, DRUMMOND, PICKFORD
GRANGEVILLE, LA							
U.S. SOUTHEAST CHAIN	7980-W	OCT 1978	11 OCT 78			USCG	CAROLINA BEACH, JUPITER, MALONE, RAYMONDVILLE
SOUTH CENTRAL	9610-Z		Apr-91				BOISE CITY, GILLETTE, LAS CRUCES, RAYMONDVILLE, SEARCHLIGHT
HAVRE, MT							
NORTH CENTRAL	8290-M	DEC 1990	161700Z APR 91			USCG	BAUDETTE, GILLETTE, WILLIAMS LAKE
HOKKAIDO					ZIP 98763		
NORTHWEST PACIFIC CHAIN	SS-3-X	25-Jul-63	21-Jan-64	Mar-64	14-40176	USCG	GESASHI, IWO JIMA, MARCUS, YAP
NORTHWEST PACIFIC CHAIN	SS-3-X	17-Mar-64	25-May-64	21-Dec-64			MARCUS, GESASHI
NORTHWEST PACIFIC CHAIN	SS-3-X	21-Dec-64	1-Jan-65	25 FEB 1975			GESASHI, IWO JIMA, MARCUS, YAP
NORTHWEST PACIFIC CHAIN	9970-X		25 FEB 1975	310300Z MAR 81			GESASHI, IWO JIMA, MARCUS, YAP
NORTHWEST PACIFIC	7930-Y		210300Z FEB 81	310300Z MAR 81			GESASHI, MARCUS, YAP
NORTHWEST PACIFIC CHAIN	9970-X		310700Z MAR 81	Sep-93			GESASHI, IWO JIMA, MARCUS, YAP*, BARRIGADA*
Koran Chain	5970					USAF	GESASHI, POHANG, KWANJU, OSAN
IWO JIMA					ZIP 98781		
NORTHWEST PACIFIC CHAIN	SS-3-M	25-Jul-63	21-Jan-64	Mar-64	14-40155	USCG	GESASHI, HOKKAIDO, MARCUS, YAP
NORTHWEST PACIFIC CHAIN	SS-3-M	21-Dec-64	1-Jan-65	25 FEB 1975			GESASHI, HOKKAIDO, MARCUS, YAP
NORTHWEST PACIFIC CHAIN	9970-M	NAME CHANGE	25 FEB 1975	202300Z FEB 81			GESASHI, HOKKAIDO, MARCUS, YAP
NORTHWEST PACIFIC CHAIN	9970-M		310700Z MAR 81	29-Sep-94		USCG	GESASHI, HOKKAIDO, MARCUS, YAP*, BARRIGADA*

JAN MAYEN, NORWAY

HOST

NORWEGIAN SEA CHAIN 2nd OP Chain Chain Code Name: Rail	SL-6-Z	1959	Mar-60	1964			BO, EDJE, SANDUR
NORWEGIAN SEA CHAIN	SL-0-Z	RATE CHANGE	1964	1966			BO, EDJE, SANDUR, SYLT
NORWEGIAN SEA CHAIN	SL-3-Z	RATE CHANGE	1966	1975			BO, EDJE, SANDUR, SYLT
NORWEGIAN SEA CHAIN AKA: Olonkin City	7970-Z	NAME CHANGE	25 FEB 1975	312400Z DEC 94			BO, EDJE, SANDUR, SYLT
JOHNSON ISLAND					14-40156	USCG	
HAWAII CHAIN	SH-4-M		01 JUL 1961	1969			KURE, UPOLO PT.
CENTRAL PACIFIC	S-1-M	RATE CHANGE	1969	25 FEB 1975			KURE, UPOLO PT.
CENTRAL PACIFIC	4990-M	RATE CHANGE	25 FEB 1975	1-Jul-92			KURE, UPOLO PT.
JUPITER, FL							
1ST LORAN C CHAIN TEST	S0-X	1957	12 AUG 1957	SEP 1958	07-40124	USCG	CAROLINA BEACH, MARTHA'S VINEYARD
U.S. EAST COAST	S0-X		Sep-58	Aug-62			CAROLINA BEACH, MARTHA'S VINEYARD
U.S. EAST COAST	SL-0-X		281200Z AUG 62	1966			CAROLINA BEACH, NANTUCKET
U.S. EAST COAST	SS-0-W	RATE CHANGE	1966	06 JAN 1969			CAROLINA BEACH, CAPE RACE, DANA, NANTUCKET
U.S. EAST COAST	SS-7-W	RATE CHANGE	06 JAN 1969	25 FEB 1975			CAROLINA BEACH, CAPE RACE, DANA, NANTUCKET, WILDWOOD"T"
U.S. EAST COAST	9930-W	RATE CHANGE	25 FEB 1975	9-Sep-78			CAROLINA BEACH, CAPE RACE, DANA, MALONE, NANTUCKET, WILDWOOD
U.S. SOUTHEAST	7980-Y		9-Sep-78				CAROLINA BEACH, GRANGEVILLE, MALONE, RAYMONDVILLE
KAMCHATKA, RUSSIA EASTERN USSR CHAIN	5000-					RUSSIA	OKHOTSK, VLADIVOSTOK
KARGABARUM, TURKEY MEDSEA CHAIN FIRST OP ON-AIR CHAIN Chain Code Name: Tack	SL-4-X	1959	Aug-59	1967		USCG	ESTARTIT(62-67), MATRATIN, SELLIA MARINA
MEDSEA CHAIN	SL-1-Y	RATE CHANGE	1967	25 FEB 1975			ESTARTIT, MATRATIN(67-70), SELLIA MARINA, LAMPEDUSA(72-75)
MEDSEA CHAIN	7990-Y	RENAME RATE	25 FEB 1975	290900 Jul 75			ESTARTIT, SELLIA MARINA, LAMPEDUSA
MEDSEA CHAIN AKA: TUSLOG DET 52 AKA: TARGABARUN	7990-Y	112132Z OCT 78	121530Z OCT 78	25-Feb-93			ESTARTIT, SELLIA MARINA, LAMPEDUSA
KODIAK, AK NORTH PACIFIC GULF OF ALASKA Renamed Fm Narrow Cape	9990-Z 7960-X		1990 1990			USCG	ATTU, PORT CLARENCE, ST PAUL SHOAL COVE, TOK
KUIBYCHEV, RUSSIA WESTERN USSR	8000-X					USSR	BARANOVICHI, ORIOL, PETROVAVODESK, SIMFEROPOL
KURE ISLAND					14-40158	USCG	
HAWAII CHAIN	SH-4-Y		01 JUL 1961	1969			JOHNSON, UPOLO PT.
CENTRAL PACIFIC	S-1-Y	RATE CHANGE	1969	25 FEB 1975			JOHNSON, UPOLO PT.
CENTRAL PACIFIC	4990-Y	RATE CHANGE	25 FEB 1975	1-Jul-92			JOHNSON, UPOLO PT.



KWANJU Koran Chain	5970-X					USAF	POHANG, GESASHI, HOKKAIDO, OSAN
LAMPEDUSA, ITALY MEDSEA CHAIN MEDSEA CHAIN	SL-1-X 7990-X	AUG 1972 RENAME RATE	28 AUG 1972 25 FEB 1975	25 FEB 1975	312400Z DEC 94	USCG	ESTARTIT, SELLIA MARINA, KARGABARUM ESTARTIT, SELLIA MARINA, KARGABARUM
LAMPANG, THAILAND SE ASIA CHAIN SE ASIA CHAIN	S-3-X SH-3-X	8-Sep-66 RATE CHANGE	280400 Oct 66 1969	1969	1975	USCG	CON SON, SATTAHIP CON SON, SATTAHIP
LAS CRUCES, NM SOUTH CENTRAL	9610-X		Apr-91			USCG	BOISE CITY, GILLETTE, GRANGEVILLE, RAYMONDVILLE, SEARCHLIGHT
LESSAY	8940-M		JUN 1985			FRENCH	CATANZARO, SOUSTONS, SYLT
MALONE, FL U. S. SOUTHEAST GREAT LAKES TESTS	7980-M 8970-W 9930-S	131350Z JUL 78 Feb-80	9-Sep-78 31 Mar 80			USCG	CAROLINE BEACH, GRANGEVILLE, JUPITER, RAYMONDVILLE BAUDETTE, BOISE CITY*, DANA, MALONE, SENECA CAROLINA BEACH, CAPE RACE, DANA, JUPITER, NANTUCKET, WILDWOOD
MARCUS NORTHWEST PACIFIC NORTHWEST PACIFIC NORTHWEST PACIFIC NORTHWEST PACIFIC NORTHWEST PACIFIC NORTHWEST PACIFIC	SS-3-W SS-3-M SS-3-M 9970-W 7930-M 9970-W	25-Jul-63 17-Mar-64 21-Dec-64 RATE CHANGE	21-Jan-64 25-May-64 1-Jan-65 25 FEB 1975	Mar-64 21-Dec-64 25 FEB 1975	FPO 3084 202300Z FEB 81 310300Z MAR 81	USCG USCG	GESASHI, HOKKAIDO, IWO JIMA, YAP GESASHI, HOKKAIDO GESASHI, HOKKAIDO, IWO JIMA, YAP GESASHI, HOKKAIDO, IWO JIMA, YAP GESASHI, HOKKAIDO, YAP GESASHI, HOKKAIDO, IWO JIMA, YAP*, BARRIGADA*
MARTHA'S VINEYARD, MA	S0-Y S0-Y	1957	12 AUG 1957 Sep-58	SEP 1958 Aug-62		USCG	CAROLINA BEACH, JUPITER CAROLINA BEACH, JUPITER
MATRATIN, LIBYA MEDSEA CHAIN FIRST OP ON-AIR CHAIN Chain Code Name: Tack Marble Arch MEDSEA CHAIN	SL-4-Y SL-1-X	1959 RATE CHANGE	Aug-59 1967	1967 MAY 1970		USCG	ESTARTIT, KARGABARUM, SELLIA MARINA ESTARTIT, KARGABARUM, SELLIA MARINA
MIDDLETOWN, CA U.S. WEST COAST	9940-X	15-Oct-76	25-Mar-77			USCG	FALLON, GEORGE, SEARCHLIGHT

NANTUCKET						USCG	
U.S. EAST COAST	SL-0-Y		281200Z AUG 62	1965			CAROLINA BEACH, JUPITER
MOVED FROM MARTHA'S VIN							
U.S. EAST COAST	SS-0-Y	RATE CHANGE	1966	06 JAN 1969			CAROLINA BEACH, CAPE RACE, DANA, JUPITER
U.S. EAST COAST	SS-7-Y	RATE CHANGE	06 JAN 1969	25 FEB 1975			CAROLINA BEACH, CAPE RACE, DANA, JUPITER, WILDWOOD" T"
U.S. EAST COAST	9930-Y	NMAE CHANGE	25 FEB 1975	9-Sep-78			CAROLINA BEACH, CAPE RACE, DANA, JUPITER, MALONE, WILDWOOD
CANADIAN EAST COAST	5930-X	01 FEB 80	010000Z JAN 84				CAPE RACE, CARIBOU, FOX HARBOR
NORTHEAST US CHAIN	9960-X		9-Sep-78				CAROLINA BEACH, CARIBOU, DANA, SENECA, WILDWOOD
NARROW CAPE, AK	9990-Z		1-Mar-77	1990		USCG	ATTU, PORT CLARENCE, ST PAUL
Gulf of Alaska	7960-X	21-Feb-77	15-May-77	1990			SHOAL COVE, TOK
REPLACE SITKINAK							
Renamed to Kodiak 1990							
NAVCEN							
OKHOTSK, RUSSIA	5000-					RUSSIA	KAMCHATKA, VLADIVOSTOK
EASTERN USSR CHAIN							
ORIOLE, RUSSIA	8000-M					USSR	BARANOVICHI, KUIBYCHEW, PETROVAVODESK, SIMFEROPOL
WESTERN USSR							
OSAN	5970					USAF	POHANG, GESASHI, HOKKAIDO, KWANJU
Koran Chain							
PETROVAVODESK, RUSSIA	8000-W					USSR	BARANOVICHI, KUIBYCHEW, ORIOLE, SIMFEROPOL
WESTERN USSR							
PICKFORD							
ST MARYS RIVER	4930-X	1975	7-Apr-76	010500Z JAN 81		USCG	DENNIS, DRUMMOND, GORDON LAKE
POHANG	5970-M					USAF	GESASHI, HOKKAIDO, KWANJU, OSAN
Koran Chain							
PORT CLARENCE							
BERING SEA	SL-2-Z		Dec-61	1969		USCG	ATTU, SITKINAK, ST PAUL
NORTH PACIFIC	SH-7-Y	RATE CHANGE	1969	25 FEB 1975			ATTU, SITKINAK, ST PAUL
NORTH PACIFIC	5930-Y	RATE CHANGE	25 FEB 1975	1-Mar-77			ATTU, SITKINAK, ST PAUL
NORTH PACIFIC	9990-Y	RATE CHANGE	1-Mar-77				ATTU, KODIAK*, NARROW CAPE*, ST PAUL

PORT HARDY CANADIAN WEST COAST	5990-Z	07 JUL 1980	201800Z NOV 80		HOST	GEORGE, SHOAL COVE, WILLIAMS LAKE
RAS EL SUDR SUEZ CANAL CHAIN	4990-Y	SUMMER 1982			HOST	BILBEIS, SHALABI EL RUDI
RAYMONDVILLE, TX U.S. SOUTHEAST SOUTH CENTRAL	7980-X 9610-Y	12-14 SEP 78	Sep-78 Apr-91		USCG	CAROLINE BEACH, GRANGEVILLE, JUPITER, MALONE BOISE CITY, GILLETTE, GRANGEVILLE, LAS CRUCES, SEARCHLIGHT
SALWA, SA SAUDI ARABIA NORTH SAUDI SOUTH	8990-V 7170-W		1983 1983		SAUDI	AL LITH. AL MUWASSAM. AR RUQI, ASH SHAYKH, AFIF AFIF, AL LITH, AL KHAMASIN, AL MUMASSAM
SANDUR NORWEGIAN SEA Chain Code Name: Rail 2nd OP Chain	SL-6-Y	1959	Mar-60	1964	HOST	BO, EDJE, JAN MAYEN, SANDUR
NORWEGIAN SEA	SL-0-Y	RATE CHANGE	1964	1966		BO, EDJE, JAN MAYEN, SYLT
NORWEGIAN SEA	SL-3-Y	RATE CHANGE	1966	25 FEB 1975		BO, EDJE, JAN MAYEN, SYLT
NORTH ATLANTIC	SL-7-W		1966	25 FEB 1975		CAPE RACE, EDJE, ANGISSOQ
NORWEGIAN SEA	7970-Y	RATE CHANGE	25 FEB 1975	312400Z DEC 94		BO, EDJE, JAN MAYEN, SYLT
NORTH ATLANTIC	7930-W	RATE CHANGE	25 FEB 1975	312359Z DEC 83		CAPE RACE, EDJE, ANGISSOQ
ICELANDIC CHAIN	9980-M	RECONFIGURED	1-Jun-83	312400Z DEC 94		ANGISSOQ, EDJE
SATTAHIP, THAILAND SE ASIA CHAIN	S-3-M SH-3-M	8 SEP 66 RATE CHANGE	280400 Oct 66 1969	1969 1975	USCG	CON SON, LAMPANG CON SON, LAMPANG
SEARCHLIGHT, NV U.S. WEST COAST SOUTH CENTRAL	9940-Y 9610-W	15-Oct-76	25-Mar-77 Apr-91		USCG	FALLON, GEORGE, MIDDLETOWN BOISE CITY, GILLETTE, GRANGEVILLE, LAS CRUCES, RAYMONDVILLE
SELLIA MARINA, IT MEDSEA CHAIN Chain Code Name: TACK FIRST OP CHAIN ON-AIR	SL-4-M	1959	Aug-59	1967	USCG	ESTARTIT(62-67), KARGABARUM, MATRATIN
MEDSEA CHAIN	SL-1-M	RATE CHANGE	1967	25 FEB 1975		ESTARTIT, KARGABARUM, MATRATIN(67-70), LAMPEDUSA(72-75)
MEDSEA CHAIN	7990-M	RENAME RATE	25 FEB 1975	312400Z DEC 94		ESTARTIT, KARGABARUM, LAMPEDUSA
SIMERI CRICHI, IT NAME CHANGED 1977						
SENECA, NY GREAT LAKES CHAIN U.S. NORTHEAST COAST	8970-X 9960-M	Feb-80 30 MAY 1978	31 Mar 80 09 SEP 78	09-40142	USCG	BAUDETTE, BOISE CITY*, DANA, MALONE CAROLINA BEACH, CARIBOU, DANA, NANTUCKET, WILDWOOD

SHALABI EL RUDI SUEZ CANAL CHAIN	4990-X	SUMMER 1982				HOST	BILBEIS, RAS EL SUDR
SHOAL COVE, AK GULF OF ALASKA CANADIAN WEST COAST	7960-Y 5990-X	21-Feb-77 1-Mar-77	15-May-77 30-Apr-77			USCG	NARROW CAPE(77-90), KODIAK, TOK GEORGE, PORT HARDY, WILLIAMS LAKE
SIMFEROPOL, RUSSIA WESTERN USSR CHAIN	8000-Y					USSR	BARANOVICHI, KUIBYCHEW, ORIOL, PETROVAVODESK
SITKINAK, AK BERING SEA NORTH PACIFIC NORTH PACIFIC	SL-2-X SH-7-Z 5930-Z	RATE CHANGE	1960 1969 25 FEB 1975	1969 25 FEB 1975 1977	1-Jul-77	USCG	ATTU, PORT CLARENCE, ST PAUL ATTU, PORT CLARENCE, ST PAUL ATTU, PORT CLARENCE, ST PAUL
SOUSTONS	8940-W		JUN 1985			FRENCH	CATANZARO, LESSAY, SYLT
ST. PAUL BERING SEA NORTH PACIFIC NORTH PACIFIC NORTH PACIFIC	SL-2-M SH-7-M 5930-M 9990-M	RATE CHANGE NAME CHANGE RATE CHANGE	1960 1969 25 FEB 1975 1-Mar-77	1969 25 FEB 1975 1-Mar-77	17-40196	USCG	ATTU, PORT CLARENCE, SITKINAK ATTU, PORT CLARENCE, SITKINAK ATTU, PORT CLARENCE, SITKINAK ATTU, KODIAK*, NARROW CAPE*, PORT CLARENCE
SYLT, GERMANY NORWEGIAN SEA CHAIN NORWEGIAN SEA CHAIN	SL-0-W SL-3-W 7970-W 8940-X	RATE CHANGE RATE CHANGE	1964 1966 25 FEB 1975 Jun-85 1993	1966 25 FEB 1975 312400Z DEC 94 2006	GERMANY	USCG USCG USCG USCG HOST	BO, EDJE, JAN MAYEN, SANDUR, SYLT BO, EDJE, JAN MAYEN, SANDUR, SYLT BO, EDJE, JAN MAYEN, SANDUR, SYLT CATANZARO, LESSAY, SOUSTONS CATANZARO, LESSAY, SOUSTONS
TAN MY, S. VIETMAN SE ASIA CHAIN	SH-3-Z		1969	1975		USCG	CON SON, LAMPANG, SATTAHIP
TOK, AK GULF OF ALASKA	7960-M	21-Feb-77	15-May-77		17--40187		NARROW CAPE(77-90), KODIAK, SHOAL COVE

UPOLO POINT, HI									
HAWAII CHAIN	SH-4-X	Jan-61	01 JUL 1961	1969		USCG	JOHNSON, KURE		
CENTRAL PACIFIC	S-1-X	RATE CHANGE	1969	25 FEB 1975			JOHNSON, KURE		
CENTRAL PACIFIC	4990-X	RATE CHANGE	25 FEB 1975	31-Dec-92			JOHNSON, KURE		
VLADIVOSTOK, RUSSIA									
EASTERN USSR CHAIN	5000-					RUSSIA	KAMCHATKA, OKHOTSK		
WILDWOOD, NJ									
	S-0-M	1959		1960		USCG			
U.S. EAST COAST	SS-7-T	1962	1966	25-Feb-75			CAROLINA BEACH, CAPE RACE, DANA, JUPITER, NANTUCKET		
U.S. EAST COAST	9930-T						CAROLINA BEACH, CAPE RACE, DANA, JUPITER, MALONE, NANTUCK		
U.S. EAST COAST	9960-T		09 SEP 78				CAROLINA BEACH, CARIBOU, DANA, NANTUCKET, SENECA		
WILLIAMS LAKE, BC									
CANADIAN WEST COAST	5990-M	1-Mar-77	30-Apr-77			HOST	GEORGE, PORT HARDY, SHOAL COVE		
NORTH CENTRAL	8290-Y	DEC 1990	161700Z APR 91				BAUDETTE, GILLETTE, HAVRE		
YAP, CAROLINE ISLANDS									
NORTHWEST PACIFIC	SS-3-Z	25-Jul-63	21-Jan-64	Mar-64	Z40180	USCG	GESASHI, HOKKAIDO, IWO JIMA, MARCUS		
NORTHWEST PACIFIC	SS-3-Z	21-Dec-64	1-Jan-65	25 FEB 1975			GESASHI, HOKKAIDO, IWO JIMA, MARCUS		
NORTHWEST PACIFIC	9970-Z	RATE CHANGE	25 FEB 1975	202300Z FEB 81			GESASHI, HOKKAIDO, IWO JIMA, MARCUS		
NORTHWEST PACIFIC	7930-Z		210300Z FEB 81	310300Z MAR 81			GESASHI, HOKKAIDO, MARCUS		
NORTHWEST PACIFIC	9970-Z		310700Z MAR 81	1987			GESASHI, HOKKAIDO, IWO JIMA, MARCUS		

### LORAN "C" MONITOR STATION/SITE

STATION NAME	RATE	ON-AIR	IN SERVICE CONTINUOUS OP	OFF-AIR	UNIT No.	MANNED BY	Commanding Officers
ADAK	SL-2-X-Y-Z		1960	1969		USCG	
AL QUNFUDDAH, SAUDI	8990 7170		1983			SAUDI	
ALERT BAY	5990		31 AUG 1977				
BERMUDA	SL-0 SS-0-W-X-Y SS-7-W-X-Y 9930-W-X-Y		28 AUG 1962 1966 1969 1975	1965 1969 1975 1979			CO: LT Paul Johnson 60's CO: CWO Ralph Sponar 77-78
BISMACK	8290-M-W 8290-M-X 9610-M-V	A-1 A-1 A-2	16 APR 1991 16 APR 1991 Apr-91				
CAPE ELIZABETH, ME	5930 9960-X-W		9-Sep-78				

CAPE RIZZUTO, ITALY	7990					
CROTONE AIRPORT, ITALY	7990-X,Z	01 MAY 1980	01 MAY 1980	31DEC94		NO
EGLIN	SS-0-Z		1967	1969		
	SS-7-Z		1969	1970		
	SS-7-Z		1971	1975		
	9930-Z		1975	1979		
	7980-W	A-1	1978			
GRAND JUNCTION	9610-M-V	A-1	Apr-91			
	9610-M-W	A-1	Apr-91			
	9610-M-X	A-2	Apr-91			
HONOLULU, HI Z40416			1978	1982	Z40416	USCG
Replaced : FRENCH FRIGATE SHOALS						
Moved to: OMSTA			190800Z MAY 82			
JUBAIL, SAUDI ARABIA	8990					
	7170		1983			SAUDI
KAMI SEYA						CO: CWO Jon VonKessel 1975-78
Moved to: YOKOTA						
KEFLAVIK, ICELAND			1959			USCG
NORTH ATLANTIC	7930-W-X		25 FEB 1975	312359Z DEC 83		1st XO- LT Herbert Parkin 59/60 1st CO - CWO3 Victor Loher 8/63 - 8/66
LITTLE ROCK, AR	8970-M-W	A-1	Feb-80			
	8970-M-Z	A-1	Feb-80			
	9610-M-Z	A-1	Apr-91			
	9610-M-Y	A-2	Apr-91			
MARBLEHEAD	8970-X	A-1	Feb-80	Mar-80		
MAYPORT, FL	9960-Y-Z	A-1		9-Sep-78		
	7980-W-X	A-1		Mar-80		
MIDLAND, TX	9610-M-X	A-1	Apr-91			
	9610-M-Y	A-1	Apr-91			
	9610-M-W	A-2	Apr-91			
	9610-M-Z	A-2	Apr-91			
MONTAGUE, PRINCE EDWARD	5930		291600Z APR 80	01JUN81		
MUSKEGON	8970-Y	A-1	Feb-80	Mar-80		
NEW ORLEANS, LA	8970-M-Z	A-2	Feb-80			
	8970-M-W	A-2	Feb-80			
	7980-M-W	A-1	Feb-80			
	7980-M-X	A-1	Feb-80			
NORTHBEND	9940-M-W		25 APR 1977	FEB 1985		
OSHIMA						OINC: CWO William Liming - Activation LORMONSTA C
PLUMBROOK, OH	9960-Z			Sep-79		

POINT CABRILLO	9940-M-W 9940M-X-Y	A-1 A-2	FEB 1985 FEB 1985		
PT PINOS	9940-M-X-Y		25 APR 1977		
RHODES, GREECE	7990-Y 5000 SITE		SEP 1978	31DEC79	USCG
SABINE PASS, TX	A-1		SEP 1978		
SAIPAN					
SANDY HOOK, NJ	9960-X-Y		9-Sep-78		
SARDINIA, ITALY Cagliari	7990-X,Z SL-1-X,Z			20 JUN 1962	
SENECA, NEW YORK	9960-M		9-Sep-78		COCO: LT John Simpson 1982-85 COCO: LT Bob Hood 1985-89
SHETLAND Moved to: KEFLAVIK	7970		1959	1-Oct-83	1st CO: LT Jack Roeber 1969-71 CO: LT Card 1976-77 CO: LT Ed Scott 1979-80
UDORN S.E. ASIA Chain	S-3-X-Y SH-3-X-Z	8 SEP 66	280400 OCT 66 May-05	1969 1975	USCG 1st CO: LT Jim Mueller 66-67 CO: LT Lloyd Burger 67-68 CO: LT Potter 1967-68 CO: LT Dave Carter 1968-69 CO: LT Bob Frame 1969-70 CO: CWO Bo Branch 1970-71 CO: CWO Russ Grose 1971-72 CO: CWO Dick Beers 1972-73 CO: CWO Larry Olizewski 1973-74
SAULT STE. MARIE		1976			USCG
ST. ANTHONY, CANADA	5930 9960 7930		9-Sep-78 25 FEB 1975	312359Z DEC 83	CANADIAN
WARNER ROBINS	EAST COAST/ M-Z SS-7-Z		1970	1971	
WHIDBEY	5990-Y 5990-Z		01 FEB 1980		
YANBU, SAUDI ARABIA	8990 7170		1983		SAUDI

**OMEGA STATIONS**

3 JUL 1978 Coast Guard assumes operational and maintenance control of the system.

STATION NAME	RATE	ON-AIR	IN SERVICE	OFF-AIR	UNIT No.	MANNED	REMARKS	
NORWAY	A	1967 Feb-66	20-Dec-73	300300Z SEP 97		HOST	1. Experimental station 2. Experimental station Construction started 1971 On-Air at full pwr 20 Dec 73 USN transfer station to host nation (Mr Rise)	
LIBERIA	B	Feb-76	Feb-76	300300Z SEP 97		HOST	Construction started May 1973 Twr Top Off at 1437ft 7 Apr 75 Ceased operating Jul 9, 1990 lack of fuel & ele pwr Ceased operations Aug 9, 1990 civil war Ceased operations 15 SEP 1990 due to civil war 22 Mar 1991 Liberian crew restored station 4 APR 1991 on-air 1856Z	
HAWAII Loran C Monitor	C	1967 1974 1958-59 1964-65 APR 1966 8/62-3/63 4/61-7/62 1952	1982 27 FEB 1975	1993 300300Z SEP 97		USCG	1. Was a test site for LORAN C Early 1956/OP "REDWING" 2. TRANSFER TO USCG NOV 1973 3. Experimental station 4. Experimental station 5. Experimental station "B" 6. 1962-63 Radiated Pwr 4KW Slave "A", AN/FRA-31, 100KW	
CYTAC	CYTAC:	One transmitter was move for Operation REDWING Antenna was the valley span, only time "C" used one 1956						
NORTH DAKOTA FORESTPORT, NY	D	1967 1964-65 APR 1966 8/62-3/63 4/61-7/62	1-Oct-72	300300Z SEP 97		USCG	1. TRANSFER TO USCG SEP 1972	
CYTAC Moved to Martha's Vineyard	SLAVE 2	MAR 1952		1955		NAVY	1. Experimental station OMEGA 2. Experimental station Omega 3. Experimental sta "A" & "C" 1952 CYTAC 4. 1962-63 Radiated Pwr 5-165w Slave "B", AN/FRA-31, 100KW 5. 1218ft TOWER built 7-12-50 to 12-12-50 Destoryed 4-21-98	
LA REUNION	E		Mar-76	300300Z SEP 97		HOST	Construction started 1 May 73 Station operational Mar 1976	
ARGENTINA	F		010001Z JUL 76	300300Z SEP 97		HOST	Construction started Sep 1973	
AUSTRALIA	G		1982	300300Z SEP 97		HOST		
JAPAN Tsushima	H		Apr-75	300300Z SEP 97		HOST	Station completed Mar 1973 Twr completed in Nov 1973	
TRINIDAD	B & G	1966  APR 1966	1966	312400Z DEC 80	52-40309	USCG	1. CONTRACTOR (Philco-Ford Corp) 2. Became operational 1966 3. 1KW, Valley Span, AN/FRA-31 4. Experimental station "B"	
CHOLLAS HEIGHTS, CA		1958-59				NAVY	1. Experimental station	



SUMMIT, CANEL ZONE	1964-65 8/62-3/63 4/61-7/62			NAVY	1. Experimental station "D" 2. 1962-63 Radiated Pwr 1.4kw 3. Master Station 1961 AN/FRA-31, 100KW
NAVCEN ONSCEN ONSOD		1972	1972		1. OPERATIONAL CONTROL 2. First established in Hawaii 3. Moved to Washington, DC

### LF LORAN SYSTEM

The first experimental low frequency LORAN (operating at 180 kc/s and called LF LORAN) was placed in operation in 1945. 180KHZ - envelope and cycle matching. Ballon arials antennas. The LF stations operated in synchronized triplets instead of pairs.

BREWSTER, MA Cape Cod MOVED TO GIMLEY, CANADA MOVED TO CAMBRIDGE BAY	Slave	1945	1945		Transmitting Station
FT. CASSWELL, NC Cape Fear MOVED TO HAMLIN MOVED TO KITTIGAZOOT	Master	1945	1945		Transmitting Station
KEY LARGO, FL MOVED TO DAWSON CREEK MOVED TO SKULL CLIFF	Slave	1945	1945		Transmitting Station
BERMUDA	MONITOR	1945	1945	USCG	Brewster, Cape Fear, Key Largo
AZORES	MONITOR	1945	1945		Brewster, Cape Fear, Key Largo
PUERTO RICO	MONITOR	1945	1945		Brewster, Cape Fear, Key Largo
TRINIDAD	MONITOR	1945	1945		Brewster, Cape Fear, Key Largo
WRIGHT FIELD	MONITOR	1945	1945		Brewster, Cape Fear, Key Largo
LITTLE FALLS, MINN	MONITOR	1945	1945		Brewster, Cape Fear, Key Largo
EATONTOWN, NJ	MONITOR	1945	1945	US ARMY	Brewster, Cape Fear, Key Largo
MOBILE, ALA	MONITOR	1945	1945	US ARMY	Brewster, Cape Fear, Key Largo
HALIFAX, NOVA SCOTIA	MONITOR	1945	1945	HOST	Brewster, Cape Fear, Key Largo
BARTER ISLAND	MONITOR				
EDMONTON	MONITOR	1947	Mar-50		

### CYCLAN STATIONS EAST COAST

180KHZ/200KHZ - envelope and cycle matching.  
160KHZ/180KHZ - envelope and cycle matching.  
CYCLAN was an Air Force project matching two separate frequencies.  
Mr. Winslow Palmar proposed the idea. Freq: 180Khz & 160Khz  
IN 1946, The Speery Company, under contract USAF, began the development of automatic cycle identification and phase measuring techniques as part of the CYCLAN project. Field tests of the system in 1951 indicated that solution of the problem of cycle ambiguity was feasible

### CYCLAN STATIONS WEST COAST

1946 Sperry - 1st 180Khz & 200Khz and then to 160 & 180Khz freqs.  
10KW transmitter - Rec Beverage antenna - grounded towers - top loading  
Increased to 100KW - 160-180KC  
USAF terminated CYCLAN for WHYN

PALO ALTO, CA	1949	1. OP FREQS: 180 & 200 KC
HILLSBORO, OR	1949	2. 625ft antenna, grounded
		3. 10KW Transmitters

### CYTAC

1948 AF tested 1 Cyclan freq.  
1952 Work began on 1 freq 90Khz-100Khz as a long range tactical bombing system.  
1955 Equipment developed and installed at Forestport, Carolina Beach and Carrabelle, FL.  
1956 US Navy setup 3 trail stations operating on 100KHZ. From test - LORAN C became  
August 1958 - USCG assumed responsibility for LORAN C.

Spring 1952, CYTAC  
CYTAC operate on 100Khz. Multiple pulsing and phase coding.  
The eight phase code in the original spec was too secret to use until the very end  
of the test period. A balloon was used to carry an antenna wire aloft to 2475 feet.  
In 1955 the Air Force program was cancelled.

CYTAC STATIONS First multiple pulsing. PRR 51.2ms/51200  
Equipment: Modified AN/FPN-15 LF LORAN XMTRS

Forestport NY	SLAVE 2	1952	1957	USAF	Equip moved to Martha'a Vineyard LORAN C 1957
Carolina Beach	MASTER	1952	1957	USAF	
Carabelle, FL	SLAVE 1	1952	1957	USAF	Equip moved to Jupiter, FL LORAN C 1957

### NAROL/NUDES

USAF - Inverse LORAN (NAROL) - for locating nuclear expositions.

1955 - Operation TEAPOT

1956 - Operation REDWING - CYTAC xmtr moved to Haika, HA with monitors at Midway Is./Maui/Palmyra.  
The only time that a Loran C transmitter was used with a Valley Span Antenna.

Three monitors in Germany - additional secondary at SYLT  
GSQ-44 AF equipment

### LORAN D

Coorination between the U.S. Naval Observatory and Tactical Loran SP0through the Air Force Systems Command was intinated and the equipment installed (West Coast)  
during December 1972. The master station first pulse was then moved to coincide with the proper pre-computed UTC second. By definition, the transmission of the :

master pulse of the first period of all Loran C and Loran D occurred at 0000 UTC, 1 January 1958.

BREMERHAVEN, GE CENTRAL EUROPEAN	3970-M	8-Apr-75		USAF	LORAN D, 5KW, AN/TRN-21 32
CANYON LAKE, TX FORT HOOD CHAIN	4970-X	1982		US ARMY	LORAN D, 150W
CHINA LAKE, CA WEST COAST	4930-SAM	Dec-72	May-73		Old rate S-7
ECHING, GE CENTRAL EUPOREAN	3970-Y	8-Apr-75		USAF	LORAN D, 5KW, AN/TRN-21 32
FORT MCELLEN, AL SOUTHEAST US (Test)	3970-M	8-Apr-75		USAF	
GLENDALE, NV WEST COAST	4930-M	Dec-72	May-73		Old rate S-=7, 400ft top loaded ANT,
HOKES MOOK, GE CENTRAL EUPOREAN	3970-X	8-Apr-75		USAF	LORAN D, 5KW, AN/TRN-21 32
KISATCHIE, LA SOUTHEAST US (Test)	B 3970-X	1976 1979		USAF USAF	LORAN C/D
LITTLE MOUNTAIN, UT UTAH (RPV Test)	4970-M	1979		USAF	LORAN D, 125W, AN/TRN-21
MIDDLEGATE, NV WEST COAST	4930-B	Dec-72	May-73		S-7
MONTELLO, NV UTAH (RPV Test)	4970-X	1979		USAF	LORAN D, 125W, AN/TRN-21
MUNICH, GE CENTRAL EUROPEAN	3970	8-Apr-75		USAF	LORAN D, 5KW, AN/TRN-21 32
NAVARRO MILL DAM, TX FORT HOOD CHAIN	4970-Y	1982		US ARMY	LORAN D, 150W
NEPHI, UT UTAH (RPV Test)	4970-Y	1982		USAF	LORAN D, 125W, AN/TRN-21
OGDEN, UT WEST COAST	4930-C	Dec-72	May-73		S-7
PALMDALE, CA WEST COAST	4930-A	Dec-72	May-73		S-7
RAIFORD, FL SOUTHEAST US (Test)	3970-Y	1979		USAF	LORAN C/D
STARK, FL	A	1976		USAF	
SUMMERVILLE, TX FORT HOOD CHAIN	4970	1982		US ARMY	LORAN D, 150W

## LORAN F

Motorola 1958 -63

Motorola Nav Guidance & Control

Later - Multiuser Tactical Nav system (MUTNS) - pseudo - ranging technique

LT DC Cowie USCG,

**S**

**COMMANDING OFFICER**

**CI**

LT James Cournow  
LT Comdr John F Martin 9/43-12/43  
LT Comdr Russel E Yates 12/43  
LT Comdr Frank P Ishmael to Jan 45  
LT Comdr Frank A Murray 1/9/45-

Bering Sea, Western Aleutian;  
Converted Hawaii, Phoenix and  
Enlisted transfer to UNIT 192

US Pacific Coast

LT Comdr Frank L Busse to Aug 44  
LT Comdr Merton W Stoffle

Hawaii, Mariana  
Japan Chain

LT George L Kelly to Dec 44  
LT Gary S Morgan Jan 45 - Aug 45  
LT Thomas P Kiely Aug 45

Phoenix, Palau - Morotati, CP

LT Comdr John F Martin 4/44-9/17/44  
LT Comdr Kenneth W Donnell  
LT Comdr Joseph T Valentine 12/45

Became Pacific Construction I

Located at Sand Is, HA

LT Garrett H Order

Located in Guam

**Commanding Officers**

**REMARKS**

CO: ENS Charles E. Johnson 1943  
CO: LTJG Burr 1961  
CO: LT Larry W Beason 1972-75  
Last CO: LTJG Pendergast 1976-78

Nov 27, 1943 - CO killed in F  
1961 DC2 died in auto accident  
Bearing Sea Chain: Testing  
10 hr service 18 OCT 43  
16 hr service 10 Nov 43  
22 hr service 01 Jan 44  
24 hr service 10 Jul 44  
AN/FPN-30, T325, AM-1700, AN/

1st CO: ENS Solon B Kemon 43-44  
Bearing Sea Chain: Testing  
10 hr service 18 OCT 43  
16 hr service 10 Nov 43  
22 hr service 01 Jan 44  
24 hr service 10 Jul 44

1st CO: Morgan R Wright 45/46  
CO: LT Ward 6/53-6/54  
CO: LTJG Kreisberg 6/54-6/55  
CO: LTJG Lew Hayes 1955-56  
CO: LTJG JJ Soltys 1965-66

Completion of 1st sta 11/23/5  
1959 station relocated to nor  
1965 station destroyed by Tyf  
Station rebuilt 1965-66  
AN/FPN-30, T-325C, AM-1700

CO: LTJG John J. Brown 1969-70  
CO: LTJG Jorgenson 1971-72  
CO: LTJG David Moore 1972-73  
CO: LTJG O'Brien 1974-75  
CO: LTJG Young 1975-76

Mobile unit moved to the Phil  
upon completion of station

1st OINC: CRE A.F. Padgett  
CO: LT Vilgil Raybon 9/45 - 3/46  
CO: LT Robert Lutz 2/46 - 5-46

Construction started 05 FEB 4  
DC to AC completed 15 JUL 45  
Station placed in caretaker s

1st CO: ENS Edwin L Doster 1943-44  
CO: LTJG George Orford 1944-45  
CO: LTJG Ziemien 1945-46  
CO: LTJG Ron Lineburg 1946-47  
CO: LTJG James H.B. Morton 1946-47  
CO: LTJG Burton Weston 1947-48  
CO: LT Erwin 1962-63  
CO: LTJG Ingram 1973-74  
CO: LTJG Kacmarski 1975  
CO: LTJG Orr 1976  
CO: LTJG Ted Mar 1978-79  
CO: CWO Dave Billing 7/90-7/91

Construction started 11/43  
1st on Theodore Pt  
1960 moved to Casco Cove  
Bearing Sea Chain: Testing  
10 hr service 18 OCT 43  
16 hr service 10 Nov 43  
22 hr service 01 Jan 44  
24 hr service 10 Jul 44  
24 personnel assigned - 1 off  
AN/FPN-30, T325C, 117FT TWR

Ground broken Jun 19, 1942  
and turned over to Canadian N  
Colac timer install 1975

1st OINC: RE Ennis T Adams  
CO: LT Bobby D Pomeroy 1944  
CO: ENS Derrick E Barretine ?-2/46  
CO: LT Robert E Foley 2/46-5/46

Construction started 05 FEB 4  
Construction CO: Lt Alvin L I  
DC to AC completed 15 Jul 45  
Station placed into caretaker

CO: LTJG Tom Tyler 1959-60  
CO: LTJG Bill Roland - 1960-61  
CO: LTJG Weiskettle -1961-62  
CO: LTJG O'Connor - 1967-68

Koran War Service Medal  
Went on-air as Mobile Unit #7  
Sta construction completed 24  
Construction of premanent S/F  
Station rebuilt 1961

1st CO: WO William H Keel 1942-43  
CO: WO Harry H Harrison 43-44  
CO: LT Yasinski 47-48

Transfer to CANADA: Sep 1, 15  
Big Fire at station 49-50  
1st Isolated station  
Experimentation on-air testir  
Operational 1 Mar 1943

CO: LTJG Bird 1956-57 AN/FPN-30, T-325C, , AM-1700,  
CO: LTJG James O Sullivan 1961  
CO: LTJG Culver 1966-67  
CO: LTJG J P Hantover 1971-72  
CO: LTJG Marmol 1978-79 Last

1949 - Moved to Cape Hatteras

1st CO: James Koonce 1943 Transfer to CANADA: Sep 1, 19  
CO: LT George Homan 1947-48 Survey made JUL 1942  
CO: LT Robert Parkhust 1948-48 Huts destroyed by fire 1946/4  
CO: LT Bernard Woods 1948-49 Original equipment lost to th

CO: LTJG Taub 1953-54  
CO: LTJG Bob Cluett 1956-57  
CO: LTJG Nevins 1957 - 58  
CO: LTJG Charles Glass 1958-59  
CO: LTJG Cutler 1962- 7/63  
CO: LTJG Bill Wilson 7/63 - 8/64  
CO: LTJG Traver 7/1965-8/1966  
CO: LTJG Scheeser 5/1970-6/1971  
CO: LTJG Thomas H Gilmore 1973-74

CO: LTJG Jackson 1946-48  
OINC: CPO Marcus L McGree 1962  
OINC: CPO Robbins 12/1966-4/68  
OINC: CPO MAZZA 1975-76  
OINC: ETC Jim Allen 77-78  
OINC: ETCS Dixon 78-79

CO: LTJG Edwin H Daniels Aug 1956 - Aug 1957 4/16/53 CG Requests permissic  
CO: LTJG Dennis Green 1958-59 1 Officer & 32 Enlisted 1953  
CO: LTJG Tom Howard 1971-72 JCS cancelled closure in 1972  
AN/FPN30, AN/FPA-2, T325B, T1

OINC: ETC Von Kessel 68-70 Replaced Fenwick 1945 1st at  
OINC: ETC Morrison 1974-76 Bodie Island, then later to Ca  
OINC: ETCS JG Allent 74-76 Hatteras (1949)  
OINC: ETC Robert L Wilder 78-79 Colac timer install 1975  
Last O-IN-C: ETC Holzbauer 79-80

CO: LTJG Ira D Thompson 1958-59 Low power  
CO: LTJG John McDonnel 1960-62 Station commissioned 27 Sept  
CO: LTJG J R Gore 1963-65 AN/FPN-30, AN/FPA-2, T-325B/F



OINC: CPO Bass 1976-78  
OINC: ETC Jim Allen 1978-80

CO: Maddox 1955  
OINC: CWO Perry Campbell 1970

Manned by USAF until Jul 1955

1st OINC: CRM Guy Bellinger 44-45  
1st CO: LTJG Lawrence O Hamilton 1950  
CO: Kirk Greiner 1956-57  
CO: LTJG John Patterson 1964-65  
CO: Jack Malsom 5/66 - 5/67  
CO: Ira Stolzenberg 12/70 -3/71  
CO: G Hale 1971-72  
CO: James Friderici 72-73  
CO: Charles D Wurster 73-74  
CO: LTJG George (Mike) McNiff 4/74-4/75  
CO: LTJG S. Jorgensen 75-76  
CO: LTJG Robert Petko 76-77  
CO: Tom Vorholt 1978-79

Tidal Wave Killed several CG  
Station re-built in 1950  
AN/FPN-30, T-325C, AM-1700, 2

CO: LTJG Larry Graham 5/62 - 5/63  
CO: LT Eichleberger 1966

1955/56 Built perment. Buildi  
Sta construction completed 11  
Typhoon Ellen 12/7-8/61  
Secured xmission 09  
Resumes xmissions 1  
Office Building dest  
In June 1964 some Japanese sc  
Typhoon Joan 10/11/1970

Used for training B-29 crews

Ground broken Jun 27, 1942  
and turned over to Canadian N  
XFER TO CANADIANS: 1 OCT 1942

1stCO: LTJG Richard Hope 1950-51  
CO: LTJG Clarence Pare 1951-52  
CO: LT Combs 1953-54  
CO: LTJG Robert S Lucas 1956  
CO: LTJG AB Ford 1964-65  
CO: LTJG NYSTAL 1971-72  
CO: LTJG Cooley 1972-73  
CO: LTJG Smith 1973-74  
CO: LTJG Lacey 1974-75  
CO: LTJG Bobby Hollingsworth

Station construction complete  
The crews qtrs completed July  
Crews Qtrs renew in 1955  
Nov 1, 1952 Termonuclear tes  
March 1953 - Hydrogen Bomb Te  
Monitor Sta on Japtan Is 1950  
Atomic Test - Greenfield  
Storerom and Paint Locker cc  
Station rebuilt 1973

1st CO: LT Robert S. Palmer 1960-61  
CO: LT Reynard 1961 - 62  
CO: LT Katchaian 1964-65  
CO: LTJG Lambertson 65-66  
CO: LTJG O'Niell 1967-68  
CO: LTJG Picone 1968-69  
CO: LTJG Jon Neff 1970-71  
CO: LTJG Lake 1971-72  
CO: LTJG Christopher Waring 1974-75  
CO: LTJG David Crawford 1975-76  
Last CO: LTJG John Wcislo 1976-78

On-Air date delayed due to Sp  
Using the same freq.

First experimental pair  
Site of abandoned CG Station  
Transferred to CG operational  
OP Freq: 1950Khz  
MOVED TO BODIE ISLAND 1945  
Test LORAN facility 1945-48

CO: LTJG Charles Sopko 1946-49  
Last OINC: ETC Libby 77/81

1968 Xmtr Tower Replaced

1st CO: LTJG Clark 1942-8/43  
CO: LT Cross 8/43-

Survey made 10 AUG 1942  
11/11/42 Construction begins  
3/11/43 Sta becomes Operator  
1/43 - 51 USCG Manned  
1951 Danish

1st CO: LTJG John J Rashti 44-45  
CO: LT Earl H Adams mid 40's  
1stCO: LT Hawkins 1952-9/53 (Tern)  
CO: LT Raymond Wood 9/1953-9/54  
CO: LT Ed Bragg 1955-56  
CO: LT RT Getman 8/56-7/57  
CO: Lt Brysow Randolph 9/61 - 9/62  
CO: LTJG Bruce Patterson 9/62 - 63  
CO: LTJG George Archer 1964  
CO: LT Robert Bates 4/66-4/67  
CO: LT Jack E Rader 4/67- 4/68  
CO: LT Hank Kofron 1968-69  
CO: LT Haggars 3/69-3/70  
CO: LT H.F. Hirsch 3/70-3/71  
CO: LTJG Durrie Monsma 1971-72

Xmt/Rec Ant Heights 125/65ft  
1946-47 CO murdered in bunk  
Lorsta on EAST Is until 1952  
Lorsta on Tern Is until close  
6 month tour in late 40's  
Cyclone Della passed by 9/4/5  
April 1, 1946 Tidal wave stuc  
August 1950, station evacuate  
Station rehabilitation comple

CO: LTJG Walter Martin 1972-73  
CO: LTJG Robert Trainer 1973-74  
CO: LTJG Hertz 1974-75  
CO: LTJG Tom Marquette 5/75-6/76  
CO: LTJG Dale Hower 6/76 - 77  
CO: LTJG Lancaster 77 - 78  
CO: LTJG Walter Henry

1st CO: ENS Charles Sopko 1944-12/45  
CO: LT George A Finn 12/45 - 3/46  
CO: LT Ralph A Peterson 2/46 - 5/46

DC to AC completed 15 JUL 45  
Construction started 7/24/44  
25 person crew  
Station placed in caretaker s

ON-AIR 8 hours a day  
Used to training B-29 crews

1964 moved to Gesashi from Ik

Construction began 4/71

1st CO: ENS David B McCoy 44-45  
O-IN-C: BMC Taplin 60-61

Nov 25, 1965 - 3 WWII Japs  
walked out of the jungle  
CG UNIT 203 produce temporary  
charts for theater operations  
Non-restricted 20 JUN 62  
Moved from COCOS Is to OROTE

OINC: ETC Herbert Parkin 57/58  
OINC: ETC Jim Bachtell 59/60

1st CO: LTJG Melvin D Sargent 45-46  
CO: LT Richard Rounsville 1958  
CO: LTJG John C Armocost 1960-61  
CO: LT Tom Sullivan 1963 - 64  
Last CO: LTJG Leon Beaudin 1964

Koran War Service Medal

1st CO: LTJG Reginald O Falk 45-46  
CO: LT Fagan 1947-48  
CO: LT Harold Parker 1955  
CO: LT Chuck Leddy 1958-59  
CO: LT Arnold Beran 1961  
CO: LT Fritz Melsheimer 1962 - 63  
CO: LT Chuck Kelly 1963-64

Koran War Service medal  
Loran A Equip replaced 1963

180 ft xmission twr

Commissioned July 12, 1962

1st CO: LTJG John G Price 44-45  
CO: John Carlile 66-68

Dec 51 station was dual rate  
Aug 52 Station changed to dua

1st CO: LTJG Lamont A Freeman 44-45 Kwadack March 1953 Hydrogen bomb test  
CO: LTJG Francis X Closter 1945 - 46 Kwadack Is 1944 1st station l  
1st CO: LTJG Virgil W. Rhinehart 1951-52 Ebeye DC to AC completed 16 AUG 45  
CO: LTJG Hugh G Wyatt 1952-53 Moved to Ebeye 1950  
CO: ENS Robert L. Tremain 53-54 On air testing for short peri  
CO: LTJG F. C. Sponholtz 54-55 Station rebuilt July 1954, cc  
CO: LTJG Robert C Chanaud 55-56 Station rehabilitation in 196  
CO: LTJG Allan A Landry 56-57

CO: LTJG John R Erickson 57-58  
CO: LTJG Donald L Frantz 58-59  
CO: LTJG James H Costich 59-60  
CO: LTJG Clyde C Atkins 60-61  
CO: LTJG Wayne E Rentfro 61-62  
CO: LTJG Jmaes F Meade 62-63  
CO: LTJG William S Haight 63-64  
CO: LTJG Robert M Pochman 64-65  
CO: LTJG James V O'Neill 65-66  
CO: LTJG William S. Ingersoll 74-75  
CO: LTJG Richard M Sebek 1977-78

1st CO: ENS William F Pierce  
CO: LT Ober 1947-48

DC to AC completed 16 AUG 45  
Moved to ENIWETOK

CO: LT Rogar F. Erdmann 1950

1st CO: ENS Charles A Rollston 44-45  
CO: LTJG John Thomas 1945-46  
CO: 1951  
CO: LT Green 1951-52

DC to AC completed 16 Aug 45  
1951 - CO stabbed to death by

1st OINC: ETC Douglas D Addy 70-72  
OINC: ETC Janner M Morgan 79-80

Dedication Ceremonie Sept 20,  
Prototype Colac timer install

1stCO: LT John B Hayes 11/51-11/52  
CO: LT Bye 1959-60  
CO: LT Maloney 1960-61  
Last CO: LT Macon T. Jordan 64

Koran War Service Medal

CO: LT John McCann 1953-54  
CO: LT Royce A Lewis 1954-55

Koran War Service Medal

CO: LTJG Leon Beaudin 1963-6/64  
CO: LTJG Peter Joseph 6/64 - 5/65  
CO: LTJG Frank Dunn 1967-68

Koran War Service Medal  
Typhoon Sarah 59 leveled all  
ings except S/P.  
Sta construction completed 11

CO: LT Rose 55-57  
CO: LT Ron Youngman 7/63 - 7/65

First experimental pair  
Site of abandoned CG Station  
Transferred to CG operational  
cognizance Jan 1, 1943  
Op Freq: 1950khz

1st CO: ENS Harold W Meyer 45-46

Mobile unit transfer to Phil  
upon completion of station

CO: LTJG W P Clark 8/43-44

Feb 27, 1952 A serve winter s  
topped the Loran Twr.  
Colac timer installed 1975

CO: WO John T. Lee 1945-46  
CO: LTJG Cecil Gray 1964 - 65

June 1943 station completely  
Construction of a permanent s  
1951 - 1953 Marines were atts  
Station rehabilitation starte

CO: LTJG Rudy Roberts 1953  
CO: LTJG George Adamson 1953  
CO: LTJG Bob Platt 1955-56  
CO: LTJG Daniel B Charter 1959-60

Koran War Service Medal

1st CO: Ens Elmar F Kooh 44-45

Capture Jap flier 1944-45  
18 month tour - 12 men 11/46  
1951 CG departed ???

CO: LTJG George Ashey 1958-59  
CO: LT Bill Brogdon 1959-60  
CO: LTJG Parker 1960-61

CO: LTJG Lonsdale

CO: LT James S. Gracey 5/53-5/54  
CO: Ira Stolzenberg 1970

CO: LTJG Anderson 1970-71  
CO: LTJG Jonathan Prince 6/76 - 4/77  
Last CO: David Hildebrand 1979

1st CO: LT W A Wright 45-46  
CO: LTJG Salvatori Bardero 1952-53  
CO: LTJG Fernald 53-54  
CO: LTJG Gordon Hall 1955-56  
CO: LTJG Hugh Murphy 1956-57  
CO: LTJG Jim Wilson 1957-58  
CO: LTJG Ralph Eustis 1958-59  
CO: LTJG Benjamin 1959-60  
CO: LTJG John R Michell 1960-61  
Oinc: WO1 William Liming 63/64  
Activation of LORAN C mon

Koran War Service Medal  
60 miles south of tokyo  
Fire at station 1954/55

1st OINC: CRE Andrew A Lucas 45-46  
CO: LTJG Paul Ortman  
CO: LTJG David R Domke

Station in caretaker status 1  
Mobile unit transfer to Phil  
upon construction of station

CO: WO Fred Baines 46-47  
OINC: ETC Haywood 1965  
OINC: ETC Ed Scott Dec 1969-72

Mobile Loran A Group "G" 1944

Mobile Unit Group "G" 1944  
CO: CWO Froelich 1966  
OINC: ETC Hayden 1966-67  
OINC: ETC Bob Olsen 1971  
OINC: ETC Bill Dibble 1972  
OINC: ETC Bill Towne 1974

Xfer to Host Nation 26 June 1

1st CO: Ens Richard R Hydeman 44-45

Mobile unit transfer to Phil  
upon completion of station

OINC: William Liming 2x 50's  
1st CO: LT John McAnn 52/53  
CO: LT Robert Bennet 57-58  
CO: LT John Dirschel 58/59  
CO: LT Barry Roberts 59/60  
CO: LT Robert Bennett 61/62  
CO: LT Larry Crowell 62/63  
CO: LT David Flanagan yr unkn

Koran War Service Medal  
52/53 full operation  
Was a Mobile Unit to move IAW

Ens Robert O Leming 45-46  
CO: LT White 1952  
CO: LTJG Flanagan 56/57-Sta  
CO: LTJG Art Mergner 7/66-7/67  
CO: LTJG Melvin Sellers 7/67-7/69  
CO: LTJG Thompson 7/69-  
CO: LTJG Timothy S Sullivan 1977-78

1952 - rebuilt permanent cind  
2/3 island off-limits trainir  
Tawian Chinese in infiltratic  
techniques - CIA  
Hotel now sit on site  
1948 UE-1 Timers installed

OINC: ETC House 1973-75  
Last CO: CWO Ryan 1975 - 77

CO: LTJG Leon D Santman 1955-56  
CO: LTJG Leo Jordan 1958-59  
CO: LTJG Keith R Ellington 1967-68

2/58-12 Apr 58 Station Rebuil



Colac timer in 1975

13d52m00sS 126d35m00sE Elevat

1st CO: LT Holland RN 1943

CO: LTJG Spence 1965-66  
CO: LTJG J. D. Jackson 1967  
CO: LTJG Wright 1971-72  
CO: LTJG Roy James Casto 1972-73  
CO: LTJG Mike Round 1973-74  
CO: LTJG Marple 1976-78  
CO: LTJG Mark S. Kern 1978-79  
Last CO: LTJG Kenneth A. Armstrong 1979-80

Constructed 11 Feb 58 - 30 Se

CO: LT Bobby D Pomeroy 1945-46

OINC:LT Norman Clover 1951 Const.Eng  
1st CO: LT Herbert J Lynch 50-51  
CO: LTJG Wee Smith 1956-57  
CO: LTJG Clyde Lusk 1957-58  
CO: LT Goodman 1966-67  
OINC: ETC Cobb 1972-73  
OINC: ETC Donald T. Stayton 74-75  
OINC: ETC Larry Gemoets 1975-76  
OINC: ETC Rogar Johnson 1976-77

T-137/A138 80ft Stick  
Station off air 0731 - on air  
3/29/64 after earthquake 3/28

1st CO: ENS Eugene T Barwick 44-45

8/20/44 - CG released 24 fema  
Reindeer shorty after leaving  
5 men lost during testing

12 MONTH TOUR OF DULY

1st CO: ENS Albert J Preston 44-45  
CO: LT Fred Baines 1945-46  
CO: LT Fred Bookout 1947-48  
CO: LT George D Winnstein 1948 - 49  
CO: LT Muth 1949 - 50

CO: LTJG David H. Freeborn 62-63  
CO: LTJG Bob Kujawa 68-69

On USN Base Sangler PT

CO: LT Freemont-smith 1961  
CO: LTJG Casey 1963-64  
CO: LTJG Joe Anderson 7/64 - 8/65  
Last CO: LTJG Karl Quinn 1971

Americans landed on 22 Jun 19  
Station built in 1946  
1950 station rebuilt  
1957 station again rebuilt  
Station rehabilitation took

1st CO: Ens Lloyd White 44-45  
CO: LTJG Goldberg 7/46-1947  
CO: LT Vance 4/60 - 4/61

1946 on Pontangris Island/mov  
1950 Crew: LTJG, EN, SN, BM,

1st CO: ENS Frank Drouin 43-44

1st CO: Ens Richard J Peterson 44-45  
CO: LTJG Scott Marple 1949

2L5 moved from MOLIKAI 1965  
Originally built in Jun 1944  
Aug 47 UE-1 and TDP-1 replace  
Permanent buildings completed  
1951 - TEH replaced the TDP-1  
Nov 53 T-235 replaced the TEH  
May 54 T-138 installed  
Aug 55 new 280 Xmtr twr insta  
Nov 55 FPN-30/FPA replaced UE  
Feb 2, 61 FPA-3A install enak  
Jun 6, 61 0000Z officially be

Operation building blew down

CO: LTJG Thomas J Collins 9/52-9/53  
CO: LT Marshall K Phillips 1955  
CO: LTJG Bud Matthew 3/56-3/57  
CO: LTJG Jim Fournier 3/57-4/58  
CO: LTJG Bill Kime 1960-61  
CO: LTJG Eugene J Hickey 1963-64  
CO: LTJG Waustnek 1964-65  
CO: LTJG Brian Richards 1965-66  
CO: LTJG Bruce Austin 1975-76  
CO: LTJG Mike Blume 1976-77

Construction started in Oct 1  
Station rebuilt 1959  
Typhoon OLIVE struck in Sep 1  
Off-air for 15 days, commence  
New station construction on F

CO: LTJG C. Hooper 1975-76

AN/FPN-30, T325B, AM-1700 AN/



CO: ENS Johnson 1944 - killed in PBV crash

CO: LTJG Monroe Kaplan 9/44 - 10/45  
CO: LT Edward P Jauch 10/45 - 11/45  
CO: LT Edward S Stanley 11/45 - 2/46  
CO: LT James W Christman 2/46 - 8/46  
CO: ENS Frank Anderson 8/46 - 10/46

Replaced by St George Dec 1944

CO: LTJG Vera Hamerschlag 1943-45

1st all SPAR (woman) crew (11

1st CO: LTJG Miles O. Davis

DC to AC completed 16 AUG 45

CO: LT Ralph L Bernard 1944-45

Transfer to USCG 1 Jan 1943

1st CO: LTJG Francis J Malloy 44-45

Located on Argentinia NFLD Nava

1st CO: LT Donald V Richardson 12/44 - 11/45  
Established 12/16/1944  
Deestablished 11/30/1945

Commanding Officers

REMARKS

Equipment shipped t

CO: CWO Bromely 1944-45

25 CG personnel and 5 USAAF

**Commanding Officers**

**REMARKS**

CO: CAPT R E Hammond 1967  
CO: CAPT Fontaine 1976 - 78  
CO: CAPT Joseph Tanguay 1984 - 85  
CO: CAPT Jim Walker 1985 - 87  
CO: Capt Jim McDonald 1987-89  
CO: Capt Dana Starkweather 1989-91  
CO: Capt Laure Somers 1991-93

Naples LORAN C Operational Cc

SSX, 800KW

SSX, 200KW

SSX, 800KW

SSX, 800KW

SSX, 200KW

SSX, 400KW

Station Leader: H.A. HANSEN (1973-77)

LRE installed 12 APR 76  
AN/FPN-45/46, 625ft Tower, 3M  
1350ft twr fell 8/1964  
AN/FPN-44, 625, 400KW

CO: LT Erwin 1962-63  
CO: LTJG Grey 1968-69  
CO: LT Thomas McNutt 1970-71  
CO: LTJG Malcom Gray 1971-72  
CO: LTJG RD Crane 1972-73  
CO: LTJG Ingram 1973-74  
CO: LTJG Orr 1975  
CO: LTJG Kacmarski 1976  
CO: LTJG Ted Mar 1978-79  
CO: LT Michael A Baroody 1985-86  
CO: LTJG Moore 1988-89  
CO: CWO Dave Billing 7/90-7/91  
CO: LTJG Cobly 1/91 - 1/92  
CO: CWO Kevin McCarthy 95-96  
CO: CWO David Fowler 98-99  
CO: CWO Steven Pfister 02-03  
CO: CWO Robert Kaufman 03-04  
CO: CWO Michael Marion 04-6/05  
CO: CWO Mark S Howard 6/05-  
CO: CWO Ronald G Long 2007-07

AN/FPN41/42, 625ft Twr, 275kw  
2nd xmtr up 1962

CO: CWO Mahlem 1987  
OINC: ETC S Lapkiewicz 91/92

500KW

1st CO: CWO Wayne Hempeck 1979-82  
2nd CO: CWO Lynn DeHann 1982-84  
3rd CO: CWO Jim Rundlett 84/86  
OINC: ETC A.A. Alpers 86-87  
OINC: ETC James Chandler 87-88  
OINC: ETC Bill Langrehr 88-92  
OINC: ETC S Mark G Huntelman 5/98 - 7/02  
OINC: ETC Hooper 94-98  
OINC: ETC Casey C Jones 6/00 - 6/03  
OINC: ETC Thomas M Hanson 6/03 -

LRE/FPN-42, 730ft Twr, 500KW

6.4KW

AN/FPN38/39, 625ft Twr, 200KW



OINC: ETC Joe Jester 1990-94  
OINC: ETC Mark O'Heir 06-

SSX, 700ft Tower

CO: LCDR Scot Campbell 1964  
CO: LT Sarra 1974-75  
CO: CWO Irv Gaines 1979-81  
CO: CWO Kirk Rose 1981 -

First low freq test station  
(CYCLAN)  
CYTAC/experimental sta 1952  
LORAN "C" test site equipped  
1958 Air Force Transferred st  
1958 1st antenna fell (625ft)  
Hurricane Helen - self sup  
Replacement - New Type of  
AN/FPN-41/42, 625ft TOWER, 55  
15 MAY 1967 TIP ARRAY OPER, 7

Twr fell FEB 2, 1993.  
AN/FPN-45, 1350FT TWR, 1800KW  
Mar 22,93 sta on-air at reduc  
power, August 93 to full pwr.  
\*\*Part of Icelandic Chain for

LCDR PLUSCH - CO 1975

Test facility in 1973  
AN/FPN-42, 700ft TOWER Array,

Branch Chief: CDR Bill Mooney

Branch Chief CDR Cyrus Potts 77

CO: CAPT F J Statts 1960

CO: CDR Judd 1966-67  
CO: LT Mike Bell 1970-71

Construction started Jan 1966  
Commissioned 2 SEPT 66

Declared OP 10/66  
AN/FPN-44/46, AN/GSH-8, Rubic  
xtmrs are in S/P building

CO: CWO Kerpletski  
CO: CWO David Gay  
CO: CWO Wilson G Hamilton 1984-86  
OINC: ETC Mark O'Heir 02-06

AN/FPN-44, 625ft Tower, 400KW

150ft TOWER, 100W, ACCUFIX XM

150ft TOWER, 100W, ACCUFIX XM

AN/FPN-38/39, 625FT Twr 325KW

AN/FPN-44, 625FT TWR, 400KW  
Twr failed

1st CO: LT Richard Wight 61/62  
2nd CO- LTJG Bill Schobert 62/63  
3rd CO: LT Alan F Miller 1963-64  
CO- LT McAllister 1971-73  
CO- LTJG Jack Orchard 73/76  
CO- LTJG David Reed 76/78  
CO- LTJG James Watson 78/80  
CO: LTJG Mark Cerasale 80-82  
CO: LTJG Robin Orr 84/86  
CO: LTJG Brook Doty 86/88  
Last CO- LT Bob Atadero 93/95

FRN38/39 625ft Twr, 165kw  
Construction 1961-62  
LRE installed Sep 1974  
AUG 1961 - OCT 1962 SITE USEI

OINC: ETC Todd Coleman 94-98

FPN-44A, 625ft Twr, 400KW

SSX, 700ft Twr, 800KW

1st CO: CWO Bill Degeorge 75-76  
CO: CWO Lindeblad 1980-81  
OINC: ETC Kevin T Anderson 04-

FPN-45, SLT, 1200KW  
Solid State Dec 08, 03

1st CO: LT Bob Gardner 63/64

FPN-44/46, 625ft Twr, 1mw

CO: LTJG David Lyons 1970-71  
CO: LTJG Thomas Cenna 1971-4/72  
CO: LTJG Terrance M Edwards 4/72 - 4/73  
CO: LTJG Wayne Collins 80-81  
CO: LTJG Sue Englebert 1985-86  
CO: LTJG Hoffman 1986-87  
CO: LTJG Hung M Nguyen 1988-89  
CO: LTJG Oscar Stallings 1993  
CO: LTJG Peter Gautier

Chain reconfigured in 1964 du  
Clarinet Pilgrim installed 19

OINC: Delbert J Hubbert 00-03

SSX, 700ft Tower

150 ft TOWER, 100W, ACCUFIX X

1st CO: CWO W.H. SHOVA  
CO: CWO Larry Oliszewski 81/82  
OINC: ETC Kent Barcus 97-00

56 HCG, 700 FT TWR, 1000KW  
Commissioned December 1978

Commissioned 1/29/91  
SSX, 700ft Tower

CO: LT RA Applebaum 1963-64  
CO: LT Thomas P Dolan 1974-75  
CO: LTJG Jacobs 1979-80  
CO: LTJG Butler 1984  
CO: LTJG Robert S Walters 1987-88  
CO: LT Frank Young 1989  
CO: LTJG Vogelbacher 1991

Construction started in summe  
Commissioning ceremony 9 Apri  
AN/FPN-46/44, 625ft Tower, 1M  
Chain reconfigured in 1964 du  
Clarinet Pilgrim installed 19

CO: LTJG Cecil Gray 64 - 64  
CO: LT Jim Woodle 9/64 - 8/65  
CO: LTJG Dan White 8/65 - 66  
CO: LT Donnie Green 1968 - 69  
CO: LT Stash 70-71  
CO: LT Tom Sheeman 10/71 - 10/72  
CO: LT Stan Lehman 10/72-10/73  
CO: LT Verne Bennett 10/73-10/74  
CO: LT William Pitt 10/74-10/75  
CO: LT Mahar 10/75 - 10/76  
CO: LT Alex LeGault 10/76-77 8mos  
CO: LT Gabriel Kinney 80-81  
CO: LT Jon Allen 1984-85  
CO: LT LaRochelle 1987-88  
CO: LT Douglas Premoe 1988-89  
Last CO: LT M.D. Dausses 1993  
CO: LT Chuck Kelly  
CO: LT Edward E Page  
CO: LT Meyer

CO: LT Jim Woodle 64/65- crea  
savings time for USCG portior  
of island to frustrate local  
command  
FPN-45/46, 1350ft Twr, 1.8mw  
Twr fell Mar 1964, killed 6  
Chain reconfigured in 1964 du  
FEB - MAR 1981 Off Air for Tc  
Clarinet Pilgrim installed 19  
XFER to JAPAN SEPT 1994  
Japanese closed sta - moved  
Master to NII JIMA

AN/FPN-39, 625ft Twr,200KW  
2nd transmitter installed 196  
Twr fell 8 OCT 1980/0400Z  
Replacement twr from SUPCEN

CO: LTJG Paul Welling 1962-63  
CO: LTJG Bill Hayes 1963-64  
CO: Thurman 1964-65  
CO: LTJG John Miner 71/72  
CO: CWO Mark Ray Coleman 81/82  
CO: LT Gary Schenk 1983-84  
Last CO: CWO Terrance J Brennan 1992-93

1962 - FISHEOWL - showed that  
the "D" layer some 500  
FPN-41/42, 625 ft Twr, 275kw  
1971-72 Xfer gas from Okinawa

CO: LT Maxwell - Old site  
CO: Terry Drown ??  
CO: LT Bob Sullins 1963/65  
CO: LT Blake 1966  
CO: LT Terry Drown 1969-71  
CO: LTJG Gullixson 1971-72  
CO: LT Dick Havery 1972-75  
CO: LTJG Rich 1975  
CO: LTJG Victor Loher 79/81  
OINC: ETC Rob C Mihalco 04 -

Equip fm Carrabelle, FL  
AN/FPN-15 (XW-1) Xtmr, 60Kw  
Second site..moved about 2 mil  
LORAN "C" test site,625ft 195  
USCG assumed responsibility f  
AN/FPN-42, 625ft twr erected  
Commissioned July 12, 1962

1st CO: LT Sanders 59/60  
CO: LT J.Hidenrack 62  
CO: LTJG Brian J Ford 1980-81  
CO: LTJG Fahy 89/91  
CO: LTJG John J Powers

FRN-38/39, 625ft Twr, 165kw  
Construction commence 22 Aug  
1959-Baseline Monitor  
1964 CO shot himself  
1975-78 Station off air due t  
US Arms embargo  
Twr Fell, 2/25/93 Sta Off-Air

CO: CWO Earl Arnett 9/98-9/01

FPN-44, 400KW

500KW

William Liming - site survey member  
1st CO: LTJG J.J. Muldoon 1961-62  
CO: LT Dean Greenough 1965  
CO: LT Connell 67-68  
CO: LTJG Joel Greenberg 1971-72  
CO: LTJG Robert Hoyt 1972-73  
CO: LT James Stark 78-79  
CO: LT Bob O'Connell 2/83-2/84  
CO: LTJG David Ely 2/84-2/85  
CO: LTJG Luilla Lee 2/1985-86  
CO: LTJG Hazley 1989-90

Station construction commence  
Provided relieve to 76 passag  
FRN-42, 625ft Twr, 275kw  
On Green Is.

CO: LTJG Fred J Milbry 1990-91  
Last CO: LTJG Caruso 1991  
CO: LTJG Mike Farrell ???  
CO: LTJG David A Worth  
CO: LTJG Jerzy J Kichner mid 70's

35KW

1st CO: LTJG Ketchen 72-73  
CO: LTJG Tony Mink 74-75  
CO: LTJG Milton Dillon 75-76  
CO: LTJG Kay Hartzell 78-79  
CO: LTJG Dan Opedal 82-83  
CO: LTJG David Mogan 84-85

Replaced Matratin, Libya  
Stabuildings completed, Fall 7  
LRE installed 18Feb76  
ATLAS-AN/FRN-42, 625ft Twr,  
325Kw

CO: LTJG David Proudfoot 67/68  
CO: LTJG Alton E. Turner 69  
CO: LT Mark Costello 1972-73  
CO: LT Jim Hartney 1973-74  
CO: LTJG Thad Allen 1974-75

Construction started Jan 1966  
Station commissioned 18 Aug 6  
Station Closed 1975  
Declared Op 10/66  
AN/FPN-44/46, 625 TWR

OINC: ETC Joel SZYMCZYK 01-03  
OINC: ETC Jon Haldeman 07

SSX, 700ft Tower  
213 Meter ANT, 250KW

1st CO: CWO J.L. WHITE  
CO: CWO M.DeBose 1981-85  
CO: CWO E.N. Baldwin 92  
OINC: ETC John Dreger 04-

56 HCG, 700 FT TWR, 1000KW

CO: LT Anderson 63-64  
CO: LT Leahy 64/65  
CO: LT King 65/66  
CO: LT Brooks 66/67  
CO: LT Larry Jasmann 74/75  
CO: LT Alex LeGault 1977 4mos  
CO: LT Love 85/86  
CO: LT Tikkanen 86-87  
CO: LT Jim Koshar 1989-90

Construction commence 1963 cc  
FPN-45, 1350ft Twr, 1.8mw  
Chain reconfigured in 1964 du  
Twr replaced with 700 ft, 85/8  
Clarinet Pilgrim installed 19  
Xfer to Japan SEP 1994

CO: Lt Leslie Mears 1961

LORAN "C" Test Site, 625ft  
Equip XFER fm Forestport  
AN/FPN-15 (XW-1)Xtmr

1st CO: LT Martin 1958-59  
CO: LTJG Oliver W Barber 1960-61  
CO: LTJG G.L. Sanok 1963

Replaced by Lampedusa  
FRN-38/39-625ft Twr  
65/66 6day war closed sta  
1960-upgraded buildings  
moved xmtrs to base of twr

1st CO: CWO Denton A Hyder

AN/FPN-44, 625ft TWR, 400KW

CO: McNaught  
CO: McLaughlin

1st CO: "Red" Fredericks 1962-63  
CO: LT Ostrum 1963-64  
CO: LT Wesemen 1970-73  
CO: LTJG CTWinfrey 1973-76  
CO: LT Ryan 1978-80  
CO: LT John W Simpson 80-81  
CO: LT Brooke Winter 81-82  
CO: CWO Joseph Puntino 82-84  
CO: CWO David Fronzuto 84/86  
OINC: ETC Bill Dietz 86/87  
OINC: ETC Joe Jester 87/90  
OINC: ETC John Dreger 02 - 04  
OINC: ETC Martin Hazetine 04 -

625 ft Tower, AN/FRN-42, 300K  
Oldest operating LORAN Sta

1st CO: CWO John W. Simpson 76-78  
CO: CWO Melvin Pulsifier 80-82

FPN-44, 400KW  
Plane Hits Guy Wire 6/29/03  
Consolidated with LORMON Kodi  
1990 to become LORSTA KODIAK

CO: CAPT Thomas Rice 99

500KW

35Kw

500KW

150 ft TOWER, 100W, ACCUFIX X

35KW

1st CO: LT M. J. Fontane 61-62  
CO: LT Fred Hill 62-63  
CO: LT John Nunes 1966-67  
CO: LTJG Thomas E Yentsch 1967-68  
CO: LT John Buzga 70 - 71  
CO: LTJG Robert Pokress 1971 - 72  
CO: LT Gary Felicetti 1983-84  
CO: LTJG Greg Taylor 87-88

FPN-41/42 W/ITT receiver, 135  
SITE SURVEY FOR 1350ft TWR  
APR/MAY 1961/SCH DEL:NOV 6  
Comm. Ceremonies 29 Jan 62

CO: LTJG Joel Dodds 88-89  
CO: CWO Joseph Chop 1992-93  
CO: CWO Emmett Childress 2001-02  
CO: CWO Francis Paula 02-03  
CO: CWO Robert Kennedy 03-04  
CO: CWO Michael W Wills 04-6/05  
CO: CWO Ronald G Long 05-

400KW

6.4KW

1st CO: Mel Girardin  
OINC: ETC Dennis Greer 1985  
OINC: ETC Gary Robinson 1986-89

32-SSX, 700ft Twr, 400KW

OINC: ETC Daniel Orquiz 2004-06  
OINC: ETC Chuck Thompson 2007  
OINC: ETC Dexter Williams  
OINC: ETC Ely Degasperi

SSX, 800KW

Mr. Olafur Thorarinsson Sta Manager

1959 - 625ft Forr "B" tower  
AN/FPN-38/39 Equipped  
9/63 - tower replaced with 13  
AN/FPN-45, 1800KW  
FPN-46 SN 18

CO: LT John Neu  
CO: LTJG Anderson 1968-69  
CO: LT Dave Carter 69/70  
CO: LTJG Edson J. Reeves 1973-74  
CO: LT Garvin 1974-75

Construction started Jan 1966  
Commissioned 29 AUG 66  
Declared OP 10/66  
Station closed 1975  
AN/FPN-44/46, 625 twr

OINC: ETC Johnstone 90/93  
OINC: ETC Aubuchon 93/96  
OINC: ETC Carl Yetman

FPN-44A, SLT, 500KW

1ST CO: LCDR Alfred P Manning 1959-60  
CO: LTJG Arthur R Bulter 1974-76  
Last CO: LTJG Tom Crabbs 1993-94

FRN-39, 625ft Twr, 165kw  
1958 LORAN C Group at Wildwoc  
Station commission in 1959  
Reason for original name - du

CO: CWO John Camey 1982 - 84  
CO: CWO Dave Gay 1984 -86  
CO: CWO David Fronzuto 1986 - 88

56 HCG's, 700ft twr, 1000KW  
Control for 8970 W, X, Y

6.4KW

CO: CWO Terry Stockman 8/87-4/88  
CO: CWO Lynn Stowe 80's

AN/FPN-44 - 4 700ft twrs 540k

500KW

CO: LTJG GR Goodman 1966-67  
CO: LTJG Mark Libby 1970-71  
CO: LTJG Tom Lynch 1971-72  
CO: LTJG Donald R Dickman 1972-73

Station off air 3/28/64  
Earthquake - building settled  
5" - xmtrs burned  
Moved to NARROW CAPE

213 Meter ANT, 250KW

1st CO: LT Bob Garder 3/60-7/61  
CO: LTJG Frank Keaton 7/61-62  
CO: LTJG Gary McManus 1962-63  
CO: LT Dan Bobeck 2/63-64  
CO: LT Jim Seabrook 1964-65  
CO: LTJG William E Hensley 1974-75  
CO: LTJG William Thraull 1976-77  
CO: LTJG Mike Hay 77 - 3/78  
CO: LTJG Jim Jones Jr 78-79  
CO: LTJG Austin Callwood 1982-83  
CO: LTJG Missy Wall 83-84  
CO: LTJG Karl Gabrielsen 87-88  
CO: CWO Mattrew E James 88/89  
CO: CWO Jack Oliver 7/90-7/91  
CO: CWO Timothy A Harris 00-01 Murdered  
CO: CWO Amilcar Rodriguez 02-03  
CO: CWO Patrick Calpin 03-04  
CO: CWO Brandley Lantz 04-6/05  
CO: CWO James Thompson 6/05-6/06  
CO: CWO Colman Polvado 6/06  
CO: CWO Chuck Thompson 6/07 - 6/08

FPN-41/42, 625ft Twr, 275kw  
1966/67 CG Aircrew member die  
as a result of an aircraft  
crash  
CWO killed by local  
Crew rescued a Japanese fish-  
ing crew 11/8/79

CO: LTJG Bill Swansburg 1967-70  
CO: LTJG Jim Miotke 9/1970-7/72  
CO: LTJG Pete DeBoer 1979-81  
CO: LTJG Cornelius 1981-83

AN/FPN-42, 625ft Twr, 325KW

1st CO: LT Walter Parker 8/1969-8/70  
CO: LT Bills 1970 - 71  
CO: Kenney 1971  
CO: LT Ernest Riutta 1971-72  
Last CO: LT Dennis Erlandson 1972-73

Turnover to contractor Jan 73  
Lear Corp 1974  
Air Force blew it up in 1975

1st CO: CWO Dave Gay 1977-78  
CO: CWO Melvin Pulsifer 1982-87  
CO: CWO Skip Baldwin 1987-88  
OINC: ETC Jim Cliver 5/88 - 9/92  
OINC: ETC John F Milohnick 1992-93  
OINC: ETC Daniel C. Heineck 00-03  
OINC: ETC Delbert J Hubbert 03-

540KW-4/700ft twrs



CO: LT Erwin Chase 10/66-10/68  
CO: LTJG Wood 10/68 - 12/70  
CO: LT Seney 1973-74  
CO: CWO Dick Beers 1977/79  
CO: CWO Daniel Rebkovich 1985-89  
OINC: ETCS Dave Pier 1993

FRN-42, 625ft Twr, 275kw  
Completed on 2 June 1961  
Officially became an A/C stat

CO: LT Bob Kirsten 1948  
CO: CAPT Bill Roland 1976

Construction of EECEN started  
moved from Fenwick, Delaware  
Testing of ants/DC XTMR 9 TOF  
LOADING of the 625ft, PA Tube  
TEMP MASTER 1962  
TEST SITE, XMTR "T"  
FPN-44/45/46 Test SN 2 1962/6  
Master 1966/67  
625 Ant built 1963  
A concret vault,below ground  
level, serve as the instrumer  
ation room

400KW

CO: LT John Earhman 1964  
CO: LTJG Power 64-65  
CO: LTJG Mortan 1966-67  
CO: LTJG Rutherford 67-68  
CO: LTJG Shattie 1970-71  
CO: LTJG Doug Kroll 1972-73

FPN-45/46, 1000ft Twr, 1mw  
Twr fell 5/7/1964 @ a height  
Chain reconfigured in 1964 du  
Sta closed - moved to Guam  
Construction started Dec 1963  
Stationed commissioned 11 SEP  
Station dedicated on 22 Oct 1  
Early Jan 1965 the 1000ft twr

CO: LTJG Bob Zimmer 1978

Clarinet Pilgrim installed 19

**REMARKS**

AN/SPN-30, AN/USH-8

AN/FPN-46  
OMEGA Monitor

Austron 5000

CDFO-5000 site

AN/SPN-30

Austron 5000

AN/FRN-46

AN/FPN-46

AUSTRON 5000

AUSTRON 5000

AUSTRON 5000

Austron 5000

Austron 5000

AN/SPN-30  
Commissioned 15 April 1959

Austron 5000

AN/FPN-46  
5000 RECEIVERS

Austron 5000

AN/SPN-29, AN/USH-9

UNMANNED 1 OCT 1983  
AN/FPN-46

Construction started Jan 1966  
Commissioned 15 SEPT 66  
Declared OP 10/66  
Station closed 1975

ST MARYS RIVER MINI CHAIN

AN/SPN-30

CO: LT Lashley 1973



first







**ONSTRUCTED**

s, Central Pacific, Marshall Islands,  
l Marshall chains from DC to AC  
! when Decomm

lina Sea

et 12/45

'BY crush  
it

'FPN2A AN/FPN3A

i3, southern part of island  
:thern part of island  
hooon OLIVE

.ippines

4

:status 5-15-1946

icer, 8 radarman, 5 RT, 2 EN, 2 RM, 4 SN, 2 CS

avy

4

.oose

: status May 1946

7 ELMO 7

! Sept 1953

' building completed in 1955

53

ig 15 Nov 1942

FPA-2, FPA-3XB, 119 FT TWR

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153

17

ie sinking of SS CARIBOU

n to build  
agreement

;

.38, "T" wire cage

ipe

1957

PN, AN FPA-3A

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personnel

W/FPA-3B, 129 TWR

.ngs fm trailers

./23/53

0303 DEC 1961 due to high tides tower ground by sea water

01230 DEC 1961

:oryed

ldiers were found waiting for Gen. MacArthur.

navy

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ed Jan 24, 1951  
r 1953

it  
st  
s

ompleted in 1962

anish fishing fleet

. cognizance Jan 1, 1943

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7  
k the island , no personnel injury server equipment damage.  
ed due to typhoon notice.  
ted in 1964

status May 1946

re Shima

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low power  
il rate rate high power

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.ocation

.ods 020800 Dec 50  
mpleted Dec 7, 1954  
i7, completed in July 1967



/ crew member

1971  
.ed 1975

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./23/53

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ched to station  
d in 1961 and completed 1963

.8 Apr 46

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.953

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1/64

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: place 1961

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HM, CS, 8ET, RM

rd original equip  
i March 1951  
. transmitters  
i

illed  
i-1/UM  
ling semi-auto ops  
:came A/C

in Feb 1944

.950

.952 and destroyed the station.  
: xmissions 26 Sept 1952  
'eale Is 1958. Began ops Aug 1958

'FPN-3A





4

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11 Base

o Europe.

Command until 1966



w/ AN/FPN 15 (XW-1) Xmtr  
ation to CG  
due to damage from  
porting  
Ant: Inverted V  
30KW, Timer SN 19  
100KW

7  
:e  
: a couple months in 1983

350KW

5

lithium standard

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1TR

1TR

1??

) FOR TESTING SKYWAVE RECEPTION

ie to Iwo and Yap tower failures  
168

MTR

er in 1962  
.1 1963  
W  
ie to Iwo and Yap tower failures  
168

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ie to Iwo and Yap tower failures  
wer maintenance  
168

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: Nuclear explosions affected  
10 miles distance

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.es north from Cytac site  
17, Trylon 6000C now a dive site  
for operation AUG 1958  
in 1961, 300KW

1958, completed 25 Feb 59

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: in 1960 and commission 17 March 1961.  
jes



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16

ommissioning 1 Nov 1963

ie to Iwo and Yap tower failures

16

168

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IMTR

soft TWR, 1MW

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ie to the name of the Railroad station

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ion 0000Z 6 Jun 1961

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of 780 ft  
ie to Iwo and Yap tower failures

and completed Feb 1965  
'T 1964  
.964  
: completed

168













USAF LORAN C/D