APPENDIX B

DATA SHEETS and COVERAGE DIAGRAMS

This appendix contains the latest and best information available as of the publication date of this *Loran-C User Handbook.* Users should consult the *Radionavigation Bulletin, Local Notice to Mariners, Notices to Airmen (NOTAMs),* and other sources for updated information. Recommended secondaries (shown in the figures of this appendix) and limits of coverage are only approximate, and may be revised as a result of ongoing studies.

Finally, users are again cautioned not to rely on any one system of navigation, but rather to use all available information.

TABLE B-1. POSITIONS OF LORAN-C TRANSMITTERS IN WGS 84 COORDINATES.

Chain		Latitude	Longitude	Emission Delay	Coding Delay	Power kW[1]
5930	CANADIAN EAST COAST CHAIN					
M	Caribou, ME	46° 48' 27.305"N	67° 55' 37.159"W			800
X	Nantucket, MA	41° 15' 12.046"N	69° 58' 38.536"W	13131.88	11000	350
Y	Cape Race, Canada	46° 46' 32.286"N	53° 10' 27.606"W	28755.02	25000	1000
Z	Fox Harbour, Canada	52° 22' 35.252"N	55° 42' 27.862"W	41594.59	38000	900
5990	CANADIAN WEST COAST CHAIN					
M	Williams Lake, Canada	51° 57' 58.876"N	122° 22' 01.686"W			400
X	Shoal Cove, AK	55° 26' 20.940"N	131° 15' 19.094"W	13343.60	11000	560
Y	George, WA	47° 03' 48.096"N	119° 44' 38.976"W	28927.36	27000	1400
Z	Port Hardy, Canada	50° 36' 29.830"N	127° 21' 28.489"W	42266.63	41000	350
7930	LABRADOR SEA CHAIN					
M	Fox Harbour, Canada	52° 22' 35.252"N	55° 42' 27.862"W			900
W	Cape Race, Canada	46° 46' 32.286"N	53° 10' 27.606"W	13167.31	11000	1000
X	Angissoq, Greenland	59° 59' 17.348"N	45° 10' 26.916"W	29565.39	26000	760

[1]Nominal value, radiated power may vary from printed value by ± 20%.

TABLE B-1. POSITIONS OF LORAN-C TRANSMITTERS IN WGS 84 COORDINATES. (Cont'd.)

Chain		Latitude	Longitude	Emission Delay	Coding Delay	Power kW
7960	GULF OF ALASKA CHAIN					
M	Tok, AK	63° 19' 42.884"N	142° 48' 31.346"W			560
X	Kodiak, AK	57° 26' 20.301"N	152° 22' 10.708"W	13804.45	11000	400
Y	Shoal Cove, AK	55° 26' 20.940"N	131° 15' 19.094"W	29651.14	26000	560
Z	Port Clarence, AK	65° 14' 40.372"N	166° 53' 11.996"W	47932.52	45000	1000
7970	NORWEGIAN SEA CHAIN					
M	Ejde, Denmark	62° 17' 59.713"N	07° 04' 25.984"W			325
X	BØ, Norway	68° 38' 06.207"N	14° 27' 47.554"E	15048.10	11000	165
W	Sylt, Germany	54° 48' 29.962"N	08° 17' 36.866"E	30065.64	26000	325
Y	Sandur, Iceland	64° 54' 26.647"N	23° 55' 21.196"W	48944.53	46000	1500
Z	Jan Mayen, Norway	70° 54' 52.662"N	08° 43' 58.136"W	63216.30	60000	165
7980	SOUTHEAST U.S. CHAIN					
M	Malone, FL	30° 59' 38.870"N	85° 10' 08.751"W			800
W	Grangeville, LA	30° 43' 33.149"N	90° 49' 43.046"W	12809.54	11000	800
X	Raymondville, TX	26° 31' 55.141"N	97° 49' 59.539"W	27443.38	23000	540
Y	Jupiter, FL	27° 01' 58.528"N	80° 06' 52.875"W	45201.88	43000	350
Z	Carolina Beach, NC	34° 03' 46.208"N	77° 54' 46.100"W	61542.72	59000	600
7990	MEDITERRANEAN SEA CHAIN					
M	Sellia Marina, Italy	38° 52' 20.707"N	16° 43' 06.713"E			165
X	Lampedusa, Italy	35° 31' 20.912"N	12° 31' 30.799"E	12755.98	11000	325
Y	Kargabarun, Turkey	40° 58' 21.066"N	27° 52' 02.074"E	32273.29	29000	165
Z	Estartit, Spain	42° 03' 36.629"N	03° 12' 16.066"E	50999.71	47000	165
8290	NORTH CENTRAL U.S. CHAIN					
M	Havre, MT	48° 44' 38.589"N	109° 58' 53.613"W			400
W	Baudette, MN	48° 36' 49.947"N	94° 33' 17.915"W	14786.56	11000	800
X	Gillette, WY	44° 00' 11.305"N	105° 37' 23.895"W	29084.44	27000	400
Y	Williams Lake, Canada	51° 57' 58.876"N	122° 22' 01.686"W	45171.62	42000	400
8970	GREAT LAKES CHAIN					
M	Dana, IN	39° 51' 07.658"N	87° 29' 11.586"W			400
W	Malone, FL	30° 59' 38.870"N	85° 10' 08.751"W	14355.11	11000	800
X	Seneca, NY	42° 42' 50.716"N	76° 49' 33.308"W	31162.06	28000	800
Y	Baudette, MN	48° 36' 49.947"N	94° 33' 17.915"W	47753.74	44000	800
Z	Boise City, OK	36° 30' 20.783"N	102° 53' 59.487"W	63669.46	59000	900
9610	SOUTH CENTRAL U.S. CHAIN					
M	Boise City, OK	36° 30' 20.783"N	102° 53' 59.487"W			800
V	Gillette, WY	44° 00' 11.305"N	105° 37' 23.895"W	13884.48	11000	540
W	Searchlight, NV	35° 19' 18.305"N	114° 48' 16.881"W	28611.81	25000	560
X	Las Cruces, NM	32° 04' 18.130"N	106° 52' 04.388"W	42044.93	40000	540
Y	Raymondville, TX	26° 31' 55.141"N	97° 49' 59.539"W	56024.80	52000	540
Z	Grangeville, LA	30° 43' 33.149"N	90° 49' 43.046"W	69304.00	65000	800
9940	U.S. WEST COAST CHAIN					
M	Fallon, NV	39° 33' 06.740"N	118° 49' 55.816"W			400
W	George, WA	47° 03' 48.096"N	119° 44' 38.976"W	13796.90	11000	1400
X	Middletown, CA	38° 46' 57.110"N	122° 29' 43.975"W	28094.50	27000	400
Y	Searchlight, NV	35° 19' 18.305"N	114° 48' 16.881"W	41967.30	40000	560

TABLE B-1. POSITIONS OF LORAN-C TRANSMITTERS IN WGS 84 COORDINATES. (Cont'd.)

Chain		Latitude	Longitude	Emission Delay	Coding Delay	Power kW
9960	NORTHEAST U.S. CHAIN					
M	Seneca, NY	42° 42' 50.716"N	76° 49' 33.308"W			800
W	Caribou, ME	46° 48' 27.305"N	67° 55' 37.159"W	13797.20	11000	800
X	Nantucket, MA	41° 15' 12.046"N	69° 58' 38.536"W	26969.93	25000	350
Y	Carolina Beach, NC	34° 03' 46.208"N	77° 54' 46.100"W	42221.64	39000	600
Z	Dana, IN	39° 51' 07.658"N	87° 29' 11.586"W	57162.06	54000	400
9970	NORTHWEST PACIFIC CHAIN					
M	Iwo Jima, Japan	24° 48' 03.734"N	141° 19' 30.857"E			1815
W	Marcus Island, Japan	24° 17' 08.026"N	153° 58' 53.786"E	15283.94	11000	1000
X	Hokkaido, Japan	42° 44' 37.217"N	143° 43' 09.799"E	36685.12	30000	600
Y	Gesashi, Japan	26° 36' 25.110"N	128° 08' 56.999"E	59463.18	55000	600
Z	Barrigada, Guam	13° 27' 50.092"N	144° 49' 32.987"E	85365.84	81000	600
9980	ICELANDIC CHAIN					
M	Sandur, Iceland	64° 54' 26.647"N	23° 55' 21.196"W			1500
W	Angissoq, Greenland	59° 59' 17.348"N	45° 10' 26.916"W	15068.03	11000	760
X	Ejde, Denmark	62° 17' 59.713"N	07° 04' 25.984"W	32944.54	30000	325
9990	NORTH PACIFIC CHAIN					
M	Saint Paul, AK	57° 09' 12.350"N	170° 15' 06.245"W			275
X	Attu Island, AK	52° 49' 44.134"N	173° 10' 49.528"E	14848.23	11000	275
Y	Port Clarence, AK	65° 14' 40.372"N	166° 53' 11.996"W	32068.95	29000	1000
Z	Kodiak, AK	57° 26' 20.301"N	152° 22' 10.708"W	46590.45	43000	400
	OTHER LORAN-C/LORAN-C-LIKE SYSTEMS					
7950	EASTERN RUSSIA "Chayka" (Pulse-Phase System; geodetic datum unknown)					
M	Aleksandrovsk	51° 04' 42.8"N	142° 42' 04.9"E			700
1	Petropavlovsk	53° 07' 47.5"N	157° 41' 42.9"E	14508.1	11000	700
2	Ussuriysk	44° 31' 59.7"N	131° 38' 23.4"E	33678.0	30000	700
8000	WESTERN CIS (Commonwealth of Independent States) "Chayka" (Pulse-Phase System; geodetic datum unknown)					
M	Bryansk	53° 07' 50.6"N	34° 54' 44.8"E			650
1	Petrozavodsk	61° 45' 32.4"N	33° 41' 40.4"E	13217.21	10000	700
2	Solnim	53° 07' 55.2"N	25° 23' 46.0"E	27125.00	25000	450
3	Simferopol'	44° 53' 20.6"N	33° 52' 32.1"E	53070.25	50000	550
4	Syzran'	53° 17' 17.6"N	48° 06' 53.4"E	67941.60	65000	700
8990	SAUDI ARABIA NORTH CHAIN					
M	Afif	23° 48' 36.96"N	42° 51' 18.18"E			800
V	Salwa	24° 50' 01.64"N	50° 34' 12.57"E	13641.09	11000	800
W	Ar Ruqi	29° 01' 04.74"N	46° 37' 22.50"E	27298.51	25000	200
X	Ash Shaykh Humayd	28° 09' 16.00"N	34° 45' 40.54"E	43145.53	40000	400
Y	Al Lith	20° 13' 58.45"N	40° 12' 31.57"E	57606.26	56000	200
Z	Al Muwassam	16° 25' 56.03"N	42° 48' 04.88"E	71726.94	69000	800

TABLE B-1. POSITIONS OF LORAN-C TRANSMITTERS IN WGS 84 COORDINATES. (Cont'd.)

Chain		Latitude	Longitude	Emission Delay	Coding Delay	Power kW
7170	SAUDI ARABIA SOUTH CHAIN					
M	Al Khamasin	20° 28' 02.03"N	44° 34' 52.89"E	13612.55	11000	800
W	Salwa	24° 50' 01.64"N	50° 34' 12.57"E	27371.23	26000	800
X	Afif	23° 48' 36.96"N	42° 51' 18.18"E	40526.50	39000	800
Y	Al Lith	20° 13' 58.45"N	40° 12' 31.57"E	53617.59	52000	200
Z	Al Muwassam	16° 25' 56.03"N	42° 48' 04.88"E			800
6930	CHINESE CHAIN					
M	Xindu	23° 58.1'N	111° 43.1'E			1000
1	Xinhe	22° 25.0'N	107° 21.0'E			1000
2	Zhangxi	23° 43.7'N	116° 53.8'E			1000

TABLE B-2. POSITIONS OF LORAN-C TRANSMITTERS IN WGS 72 COORDINATES.

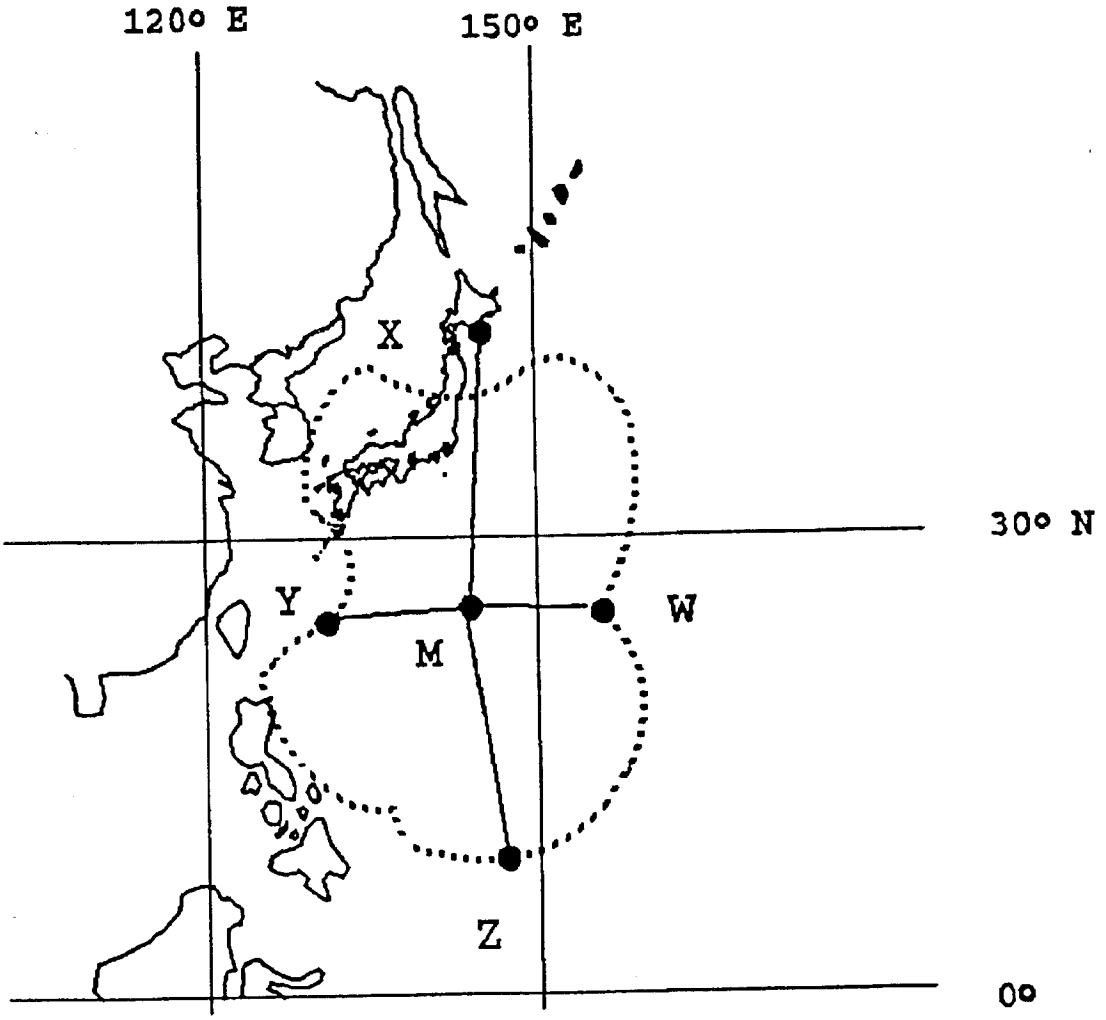
Chain		Latitude	Longitude	Emission Delay	Coding Delay	Power kW
5930	CANADIAN EAST COAST CHAIN					
M	Caribou, ME	46° 48' 27.199"N	67° 55' 37.713"W			800
X	Nantucket, MA	41° 15' 11.930"N	69° 58' 39.090"W	13131.88	11000	350
Y	Cape Race, Canada	46° 46' 32.180"N	53° 10' 28.160"W	28755.02	25000	1000
Z	Fox Harbour, Canada	52° 22' 35.157"N	55° 42' 28.416"W	41594.59	38000	900
5990	CANADIAN WEST COAST CHAIN					
M	Williams Lake, Canada	51° 57' 58.780"N	122° 22' 02.240"W			400
X	Shoal Cove, AK	55° 26' 20.851"N	131° 15' 19.648"W	13343.60	11000	560
Y	George, WA	47° 03' 47.990"N	119° 44' 39.530"W	28927.36	27000	1400
Z	Port Hardy, Canada	50° 36' 29.731"N	127° 21' 29.043"W	42266.63	41000	350
7930	LABRADOR SEA CHAIN					
M	Fox Harbour, Canada	52° 22' 35.157"N	55° 42' 28.416"W			900
W	Cape Race, Canada	46° 46' 32.180"N	53° 10' 28.160"W	13167.31	11000	1000
X	Angissoq, Greenland	59° 59' 17.270"N	45° 10' 27.470"W	29565.39	26000	760
7960	GULF OF ALASKA CHAIN					
M	Tok, AK	63° 19' 42.814"N	142° 48' 31.900"W			560
X	Kodiak, AK	57° 26' 20.217"N	152° 22' 11.262"W	13804.45	11000	400
Y	Shoal Cove. AK	55° 26' 20.851"N	131° 15' 19.648"W	29651.14	26000	560
Z	Port Clarence, AK	65° 14' 40.306"N	166° 53' 12.550"W	47932.52	45000	1000
7970	NORWEGIAN SEA CHAIN					
M	Ejde, Denmark	62° 17' 59.640"N	07° 04' 26.538"W			325
X	BØ, Norway	68° 38' 06.150"N	14° 27' 47.000"E	15048.10	11000	165
W	Sylt, Germany	54° 48' 29.872"N	08° 17' 36.312"E	30065.64	26000	325
Y	Sandur, Iceland	64° 54' 26.580"N	23° 55' 21.750"W	48944.53	46000	1500
Z	Jan Mayen, Norway	70° 54' 52.610"N	08° 43' 58.690"W	63216.30	60000	165
7980	SOUTHEAST U.S. CHAIN					
M	Malone, FL	30° 59' 38.740"N	85° 10' 09.305"W			800
W	Grangeville, LA	30° 43' 33.018"N	90° 49' 43.600"W	12809.54	11000	800
X	Raymondville, TX	26° 31' 55.006"N	97° 50' 00.093"W	27443.38	23000	540
Y	Jupiter, FL	27° 01' 58.393"N	80° 06' 53.429"W	45201.88	43000	350
Z	Carolina Beach, NC	34° 03' 46.081"N	77° 54' 46.654"W	61542.72	59000	600
7990	MEDITERRANEAN SEA CHAIN					
M	Sellia Marina, Italy	38° 52' 20.587"N	16° 43' 06.159"E			165
X	Lampedusa, Italy	35° 31' 20.787"N	12° 31' 30.245"E	12755.98	11000	325
Y	Kargabarun, Turkey	40° 58' 20.950"N	27° 52' 01.520"E	32273.29	29000	165
Z	Estartit, Spain	42° 03' 36.515"N	03° 12' 15.512"E	50999.71	47000	165
8970	GREAT LAKES CHAIN					
M	Dana, IN	39° 51' 07.540"N	87° 29' 12.140"W			400
W	Malone, FL	30° 59' 38.740"N	85° 10' 09.305"W	14355.11	11000	800
X	Seneca, NY	42° 42' 50.603"N	76° 49' 33.862"W	31162.06	28000	800
Y	Baudette, MN	48° 36' 49.844"N	94° 33' 18.469"W	47753.74	44000	800
Z	Boise City, OK	Coordinates not available in WGS 72				
9940	U.S. WEST COAST CHAIN					
M	Fallon, NV	39° 33' 06.621"N	118° 49' 56.370"W			400
W	George, WA	47° 03' 47.990"N	119° 44' 39.530"W	13796.90	11000	1400
X	Middletown, CA	38° 46' 56.990"N	122° 29' 44.529"W	28094.50	27000	400
Y	Searchlight, NV	35° 19' 18.180"N	114° 48' 17.435"W	41967.30	40000	560

TABLE B-2. POSITIONS OF LORAN-C TRANSMITTERS IN WGS 72 COORDINATES (Cont'd.)

Chain		Latitude	Longitude	Emission Delay	Coding Delay	Power kW
9960	NORTHEAST U.S. CHAIN					
M	Seneca, NY	42° 42' 50.603"N	76° 49' 33.862"W			800
W	Caribou, ME	46° 48' 27.199"N	67° 55' 37.713"W	13797.20	11000	800
X	Nantucket, MA	41° 15' 11.930"N	69° 58' 39.090"W	26969.93	25000	350
Y	Carolina Beach, NC	34° 03' 46.081"N	77° 54' 46.654"W	42221.65	39000	600
Z	Dana, IN	39° 51' 07.540"N	87° 29' 12.140"W	57162.06	54000	400
9970	NORTHWEST PACIFIC CHAIN					
M	Iwo Jima. Japan	24° 48' 03.597"N	141° 19' 30.303"E			1815
W	Marcus Island, Japan	24° 17' 07.888"N	153° 58' 53.232"E	15283.94	11000	1000
X	Hokkaido, Japan	42° 44' 37.104"N	143° 43' 09.245"E	36685.12	30000	600
Y	Gesashi, Japan	26° 36' 24.975"N	128° 08' 56.445"E	59463.18	55000	600
Z	Barrigada, Guam	Coordinates not available in WGS 72		85365.84	81000	600
9980	ICELANDIC CHAIN					
M	Sandur, Iceland	64° 54' 26.580"N	23° 55' 21.750"W			1500
W	Angissoq, Greenland	59° 59' 17.270"N	45° 10' 27.470"W	15068.03	11000	760
X	Ejde, Denmark	62° 17' 59.640"N	07° 04' 26.538"W	32944.54	30000	325
9990	NORTH PACIFIC CHAIN					
M	Saint Paul, AK	57° 09' 12.265"N	170° 15' 06.799"W			275
X	Attu, AK	52° 49' 44.040"N	173° 10' 49.974"E	14875.25	11000	275
Y	Port Clarence, AK	65° 14' 40.306"N	166° 53' 12.550"W	32068.95	29000	1000
Z	Kodiak, AK	57° 26' 20.217"N	152° 22' 11.262"W	46590.45	43000	400

Positions are based on U.S. Defense Mapping Agency survey data (positions of Loran systems operated by other governments were provided by those governments). Power shown is transmitter peak rated power.

FIGURE B-1. LORAN-C GRI 9970 NORTHWEST PACIFIC CHAIN



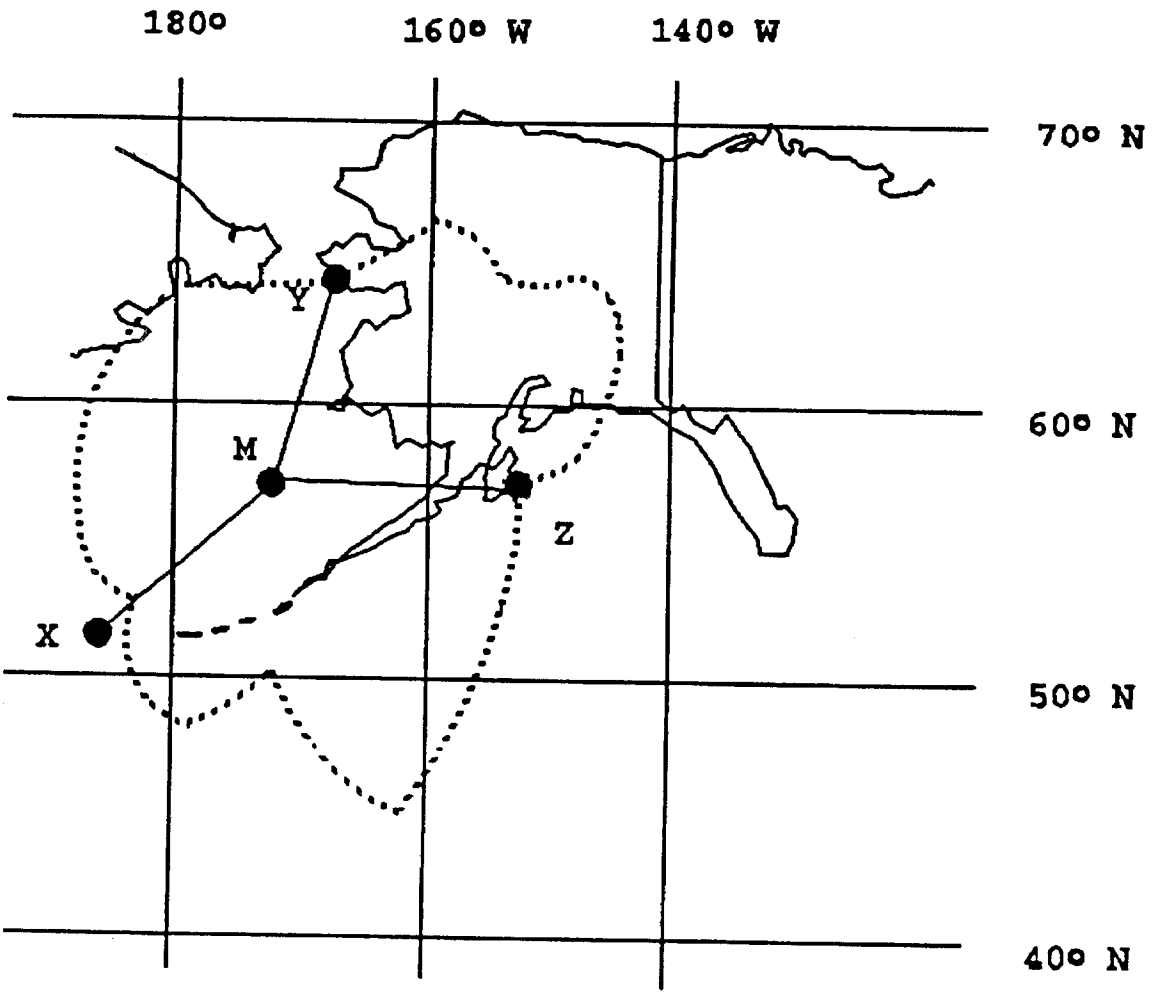
Transmitter

- M Iwo Jima, Japan
- W Marcus Island, Japan
- X Hokkaido, Japan
- Y Gesashi, Japan
- Z Barrigada, Guam

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise ... 58.1 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.

FIGURE B-2. LORAN-C GRI 9990 NORTH PACIFIC CHAIN



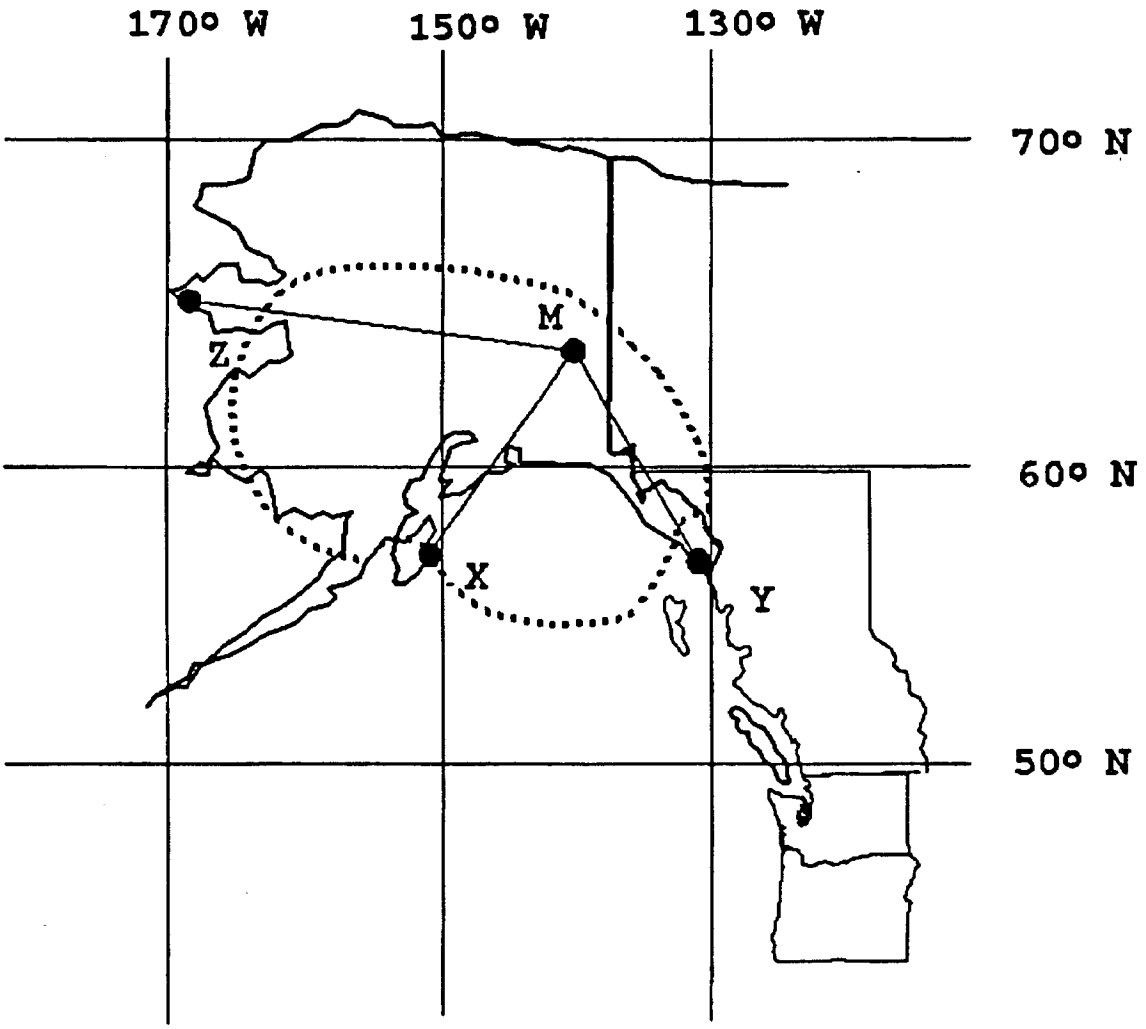
Transmitter

M St. Paul, AK
X Attu, AK
Y Port Clarence, AK
Z Kodiak, AK

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise ... 48.2 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.

FIGURE B-3. LORAN-C GRI 7960 GULF OF ALASKA CHAIN



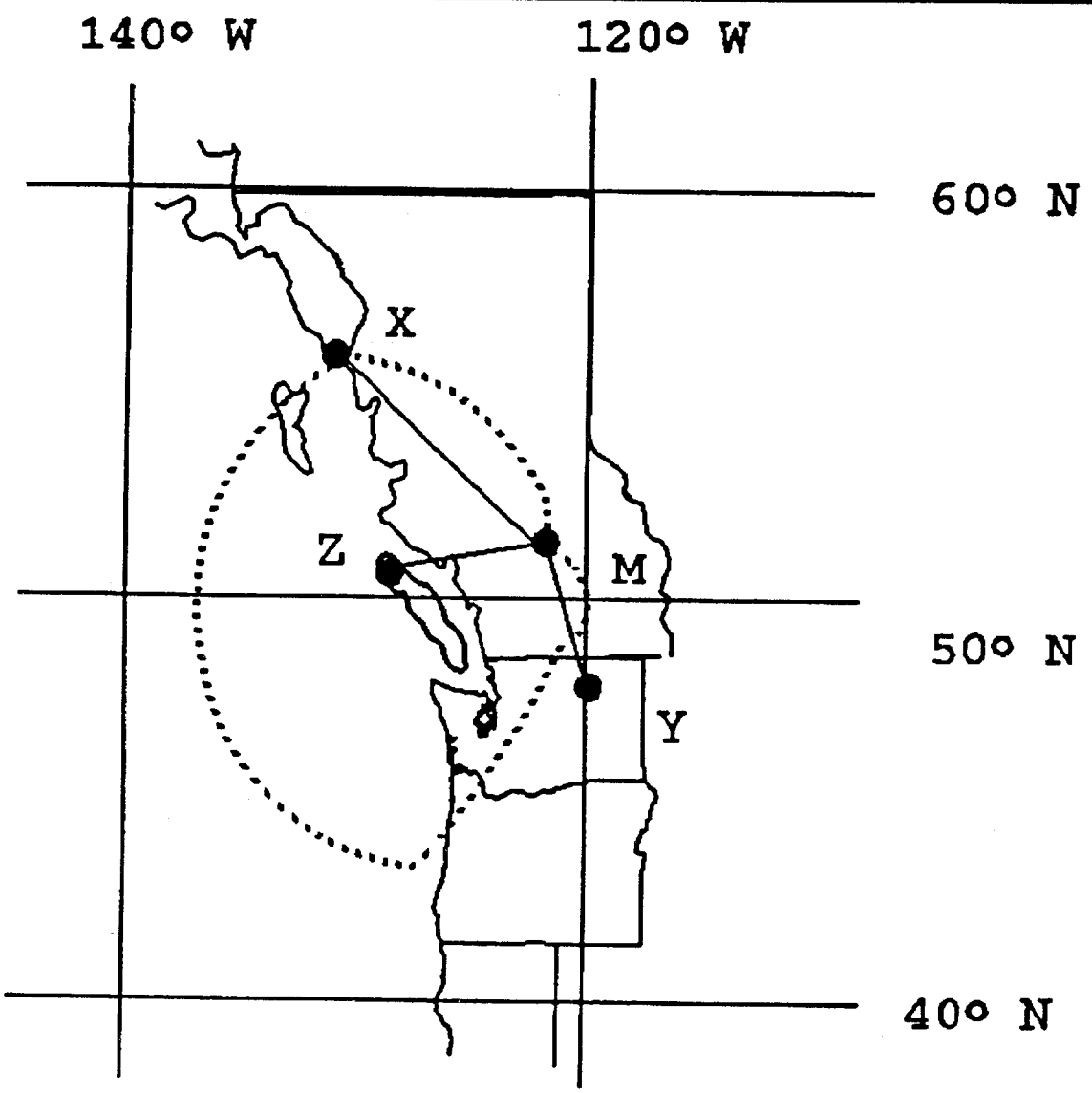
Transmitter

M Tok, AK
X Kodiak, AK
Y Shoal Cove, AK
Z Port Clarence, AK

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise ... 49.0 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.

FIGURE B-4. LORAN-C GRI 5990 CANADIAN WEST COAST CHAIN



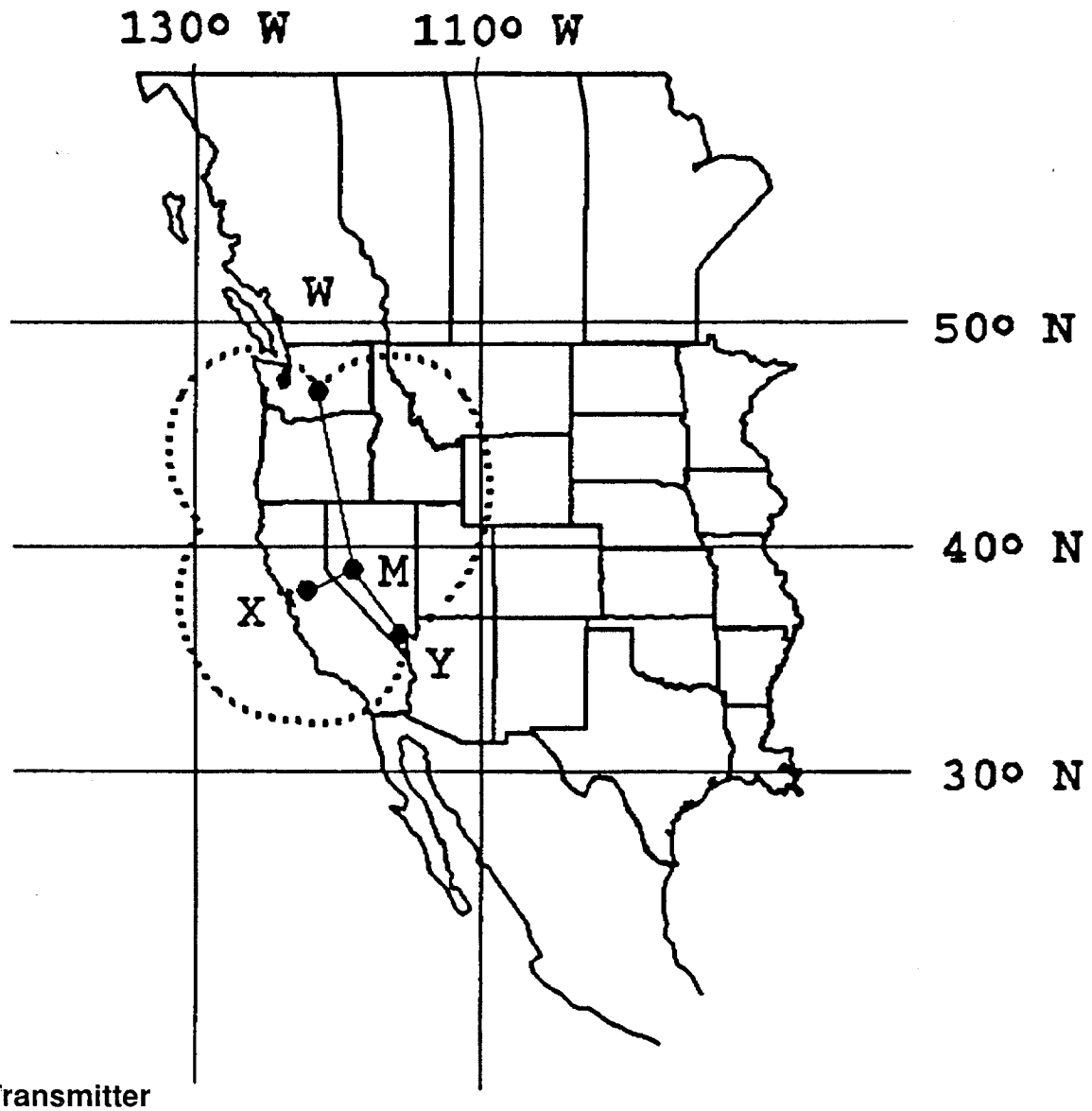
Transmitter

M	Williams Lake, Canada
X	Shoal Cove, AK
Y	George, WA
Z	Port Hardy, Canada

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise ... 46.4 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.

FIGURE B-5. LORAN-C GRI 9940 U. S. WEST COAST CHAIN



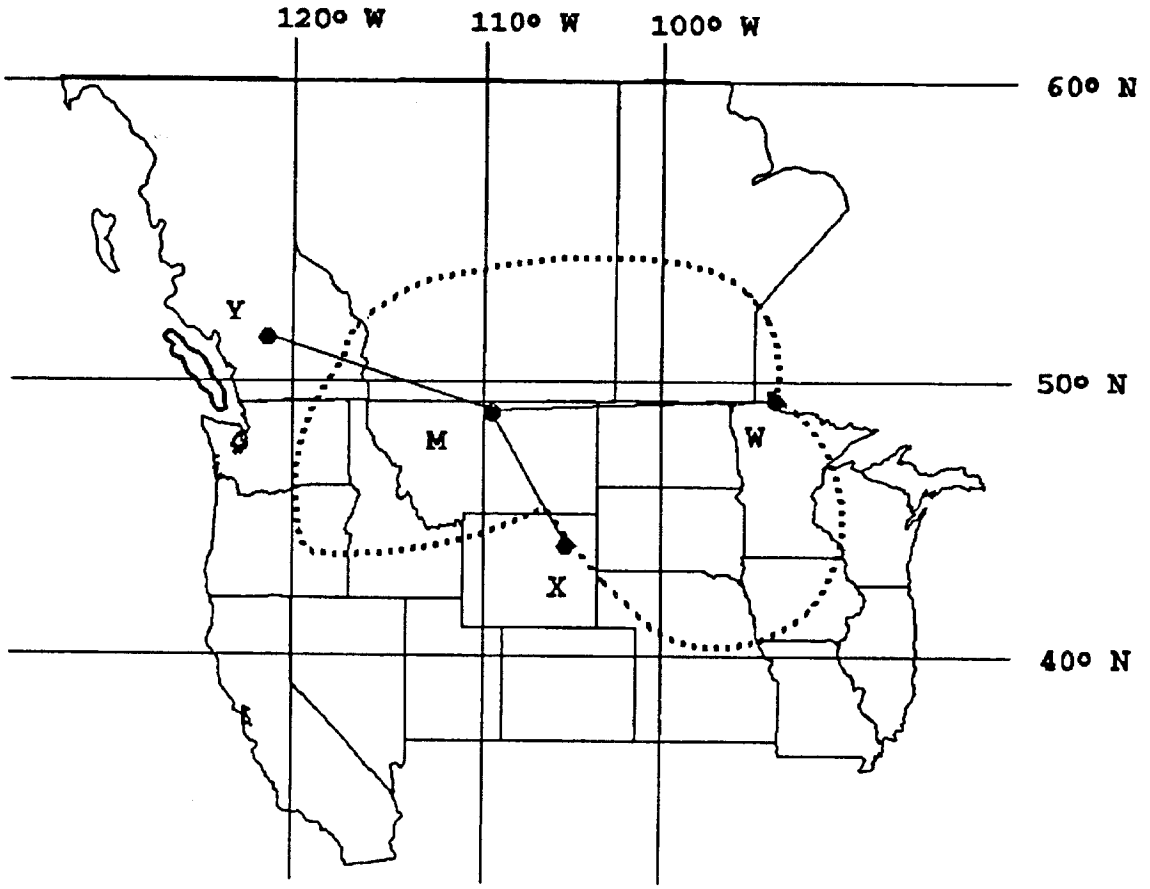
Transmitter

M Fallon, NV
W George, WA
X Middletown, CA
Y Searchlight, NV

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise ... 52.4 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.

FIGURE B-6. LORAN-C GRI 8290 NORTH CENTRAL U. S. CHAIN



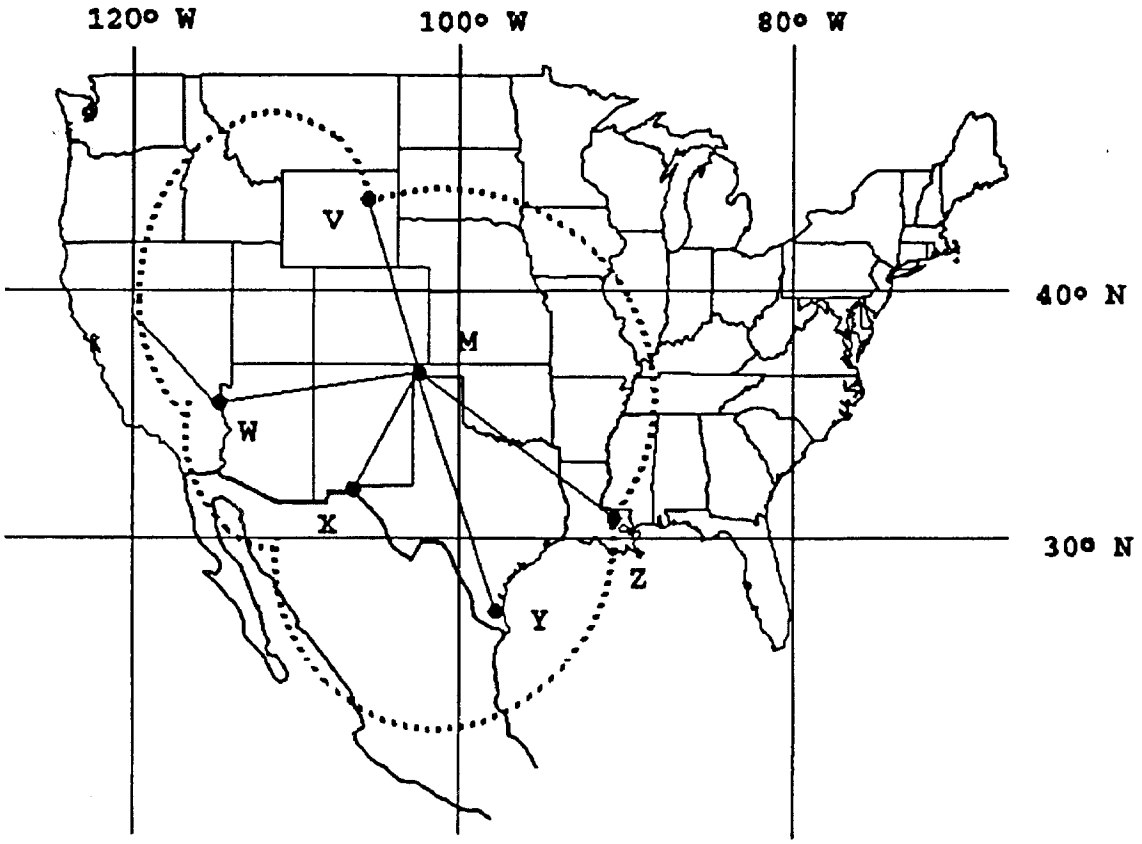
Transmitter

M Havre, MT
W Baudette, MN
X Gillette, WY
Y Williams Lake, Canada

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise ... 57.8 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.

FIGURE B-7. LORAN-C GRI 9610 SOUTH CENTRAL U. S. CHAIN



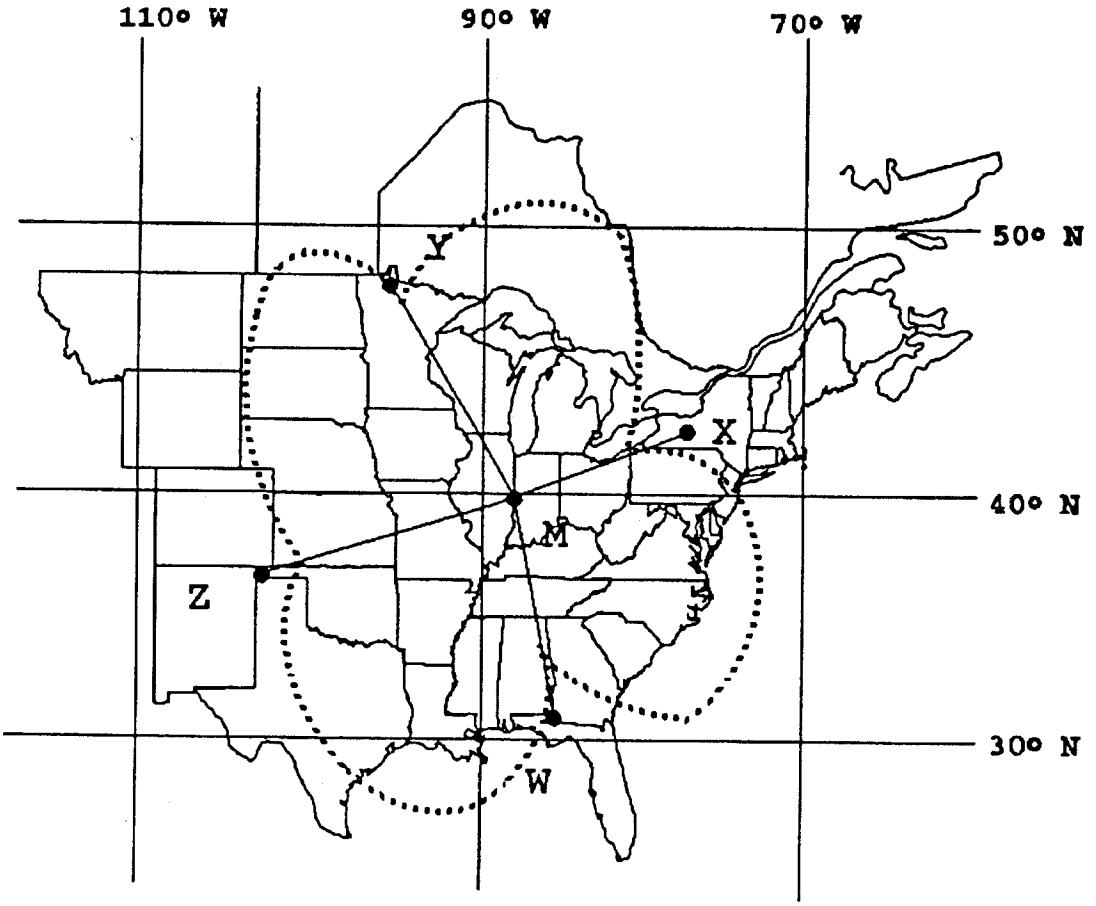
Transmitter

M	Boise City, OK
V	Gillette, WY
W	Searchlight, NV
X	Las Cruces, NM
Y	Raymondville, TX
Z	Grangeville, LA

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise ... 57.8 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.

FIGURE B-8. LORAN-C GRI 8970 GREAT LAKES CHAIN



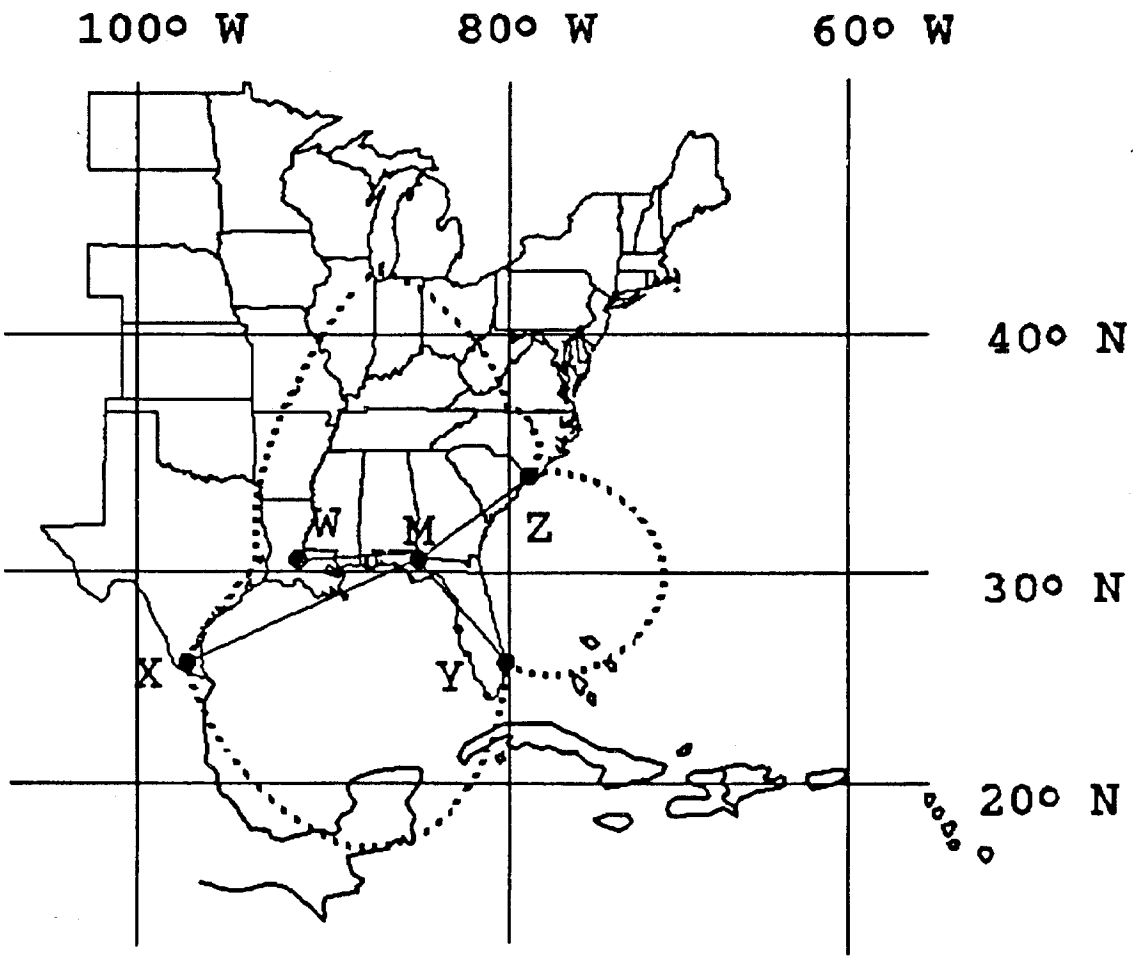
Transmitter

M	Dana, IN
W	Malone, FL
X	Seneca, NY
Y	Baudette, MN
Z	Boise City, OK

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise .... 58.1 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.

FIGURE B-9. LORAN-C GRI 7980 SOUTHEAST U. S. CHAIN



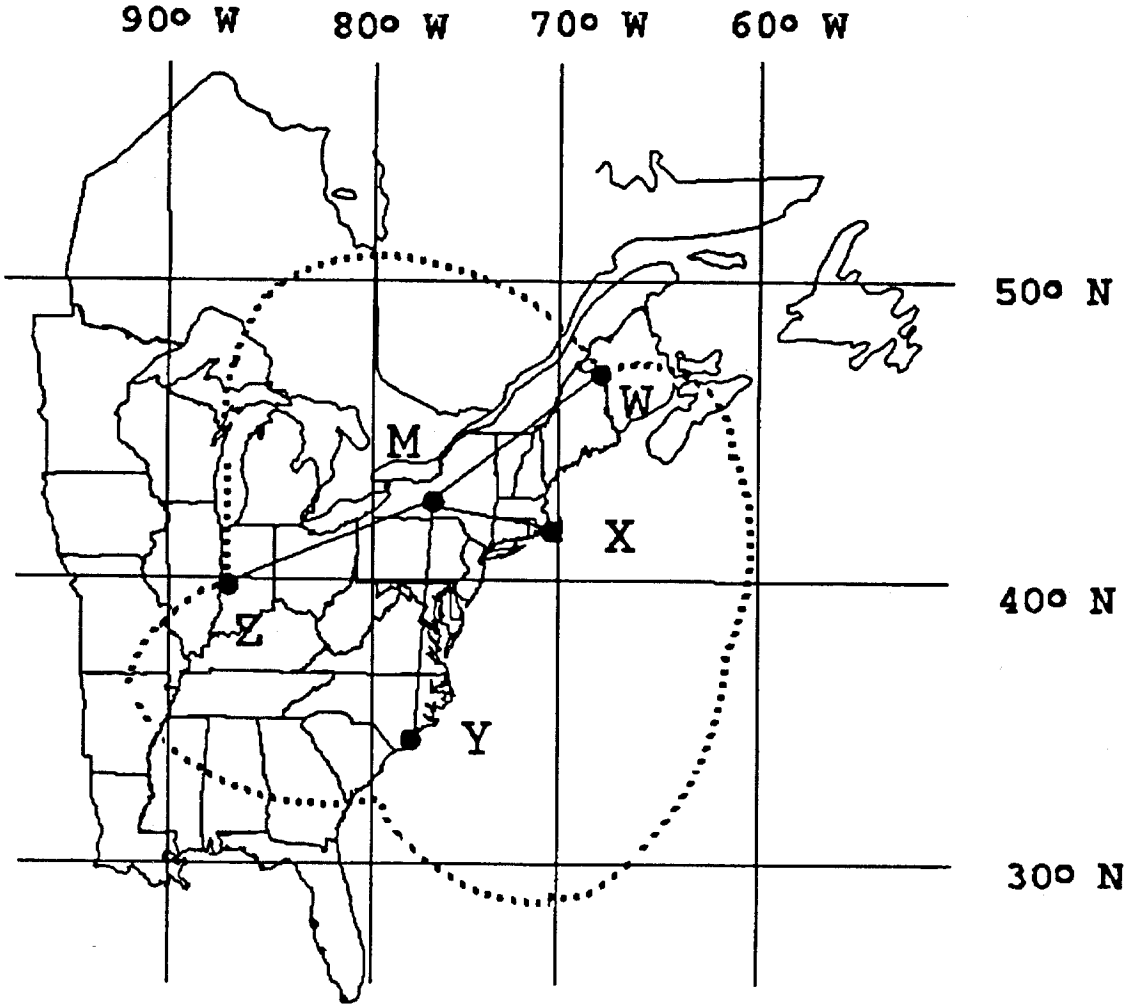
Transmitter

M Malone, FL
W Grangeville, LA
X Raymondville, TX
Y Jupiter, FL
Z Carolina Beach, NC

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise ... 60.5 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.

FIGURE B-10. LORAN-C GRI 9960 NORTHEAST U. S. CHAIN



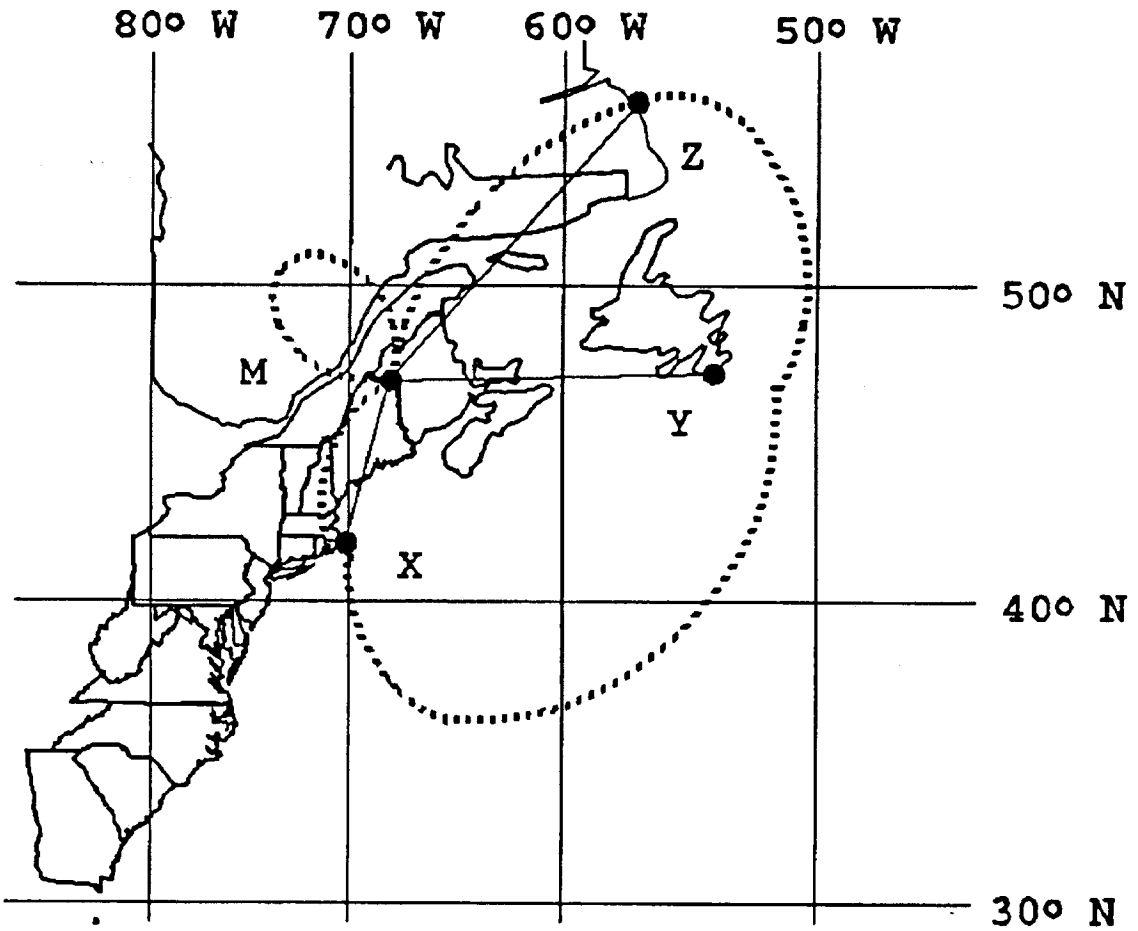
Transmitter

M	Seneca, NY
W	Caribou, ME
X	Nantucket, MA
Y	Carolina Beach, NC
Z	Dana, IN

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise .... 58.1 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.

FIGURE B-11. LORAN-C GRI 5930 CANADIAN EAST COAST CHAIN



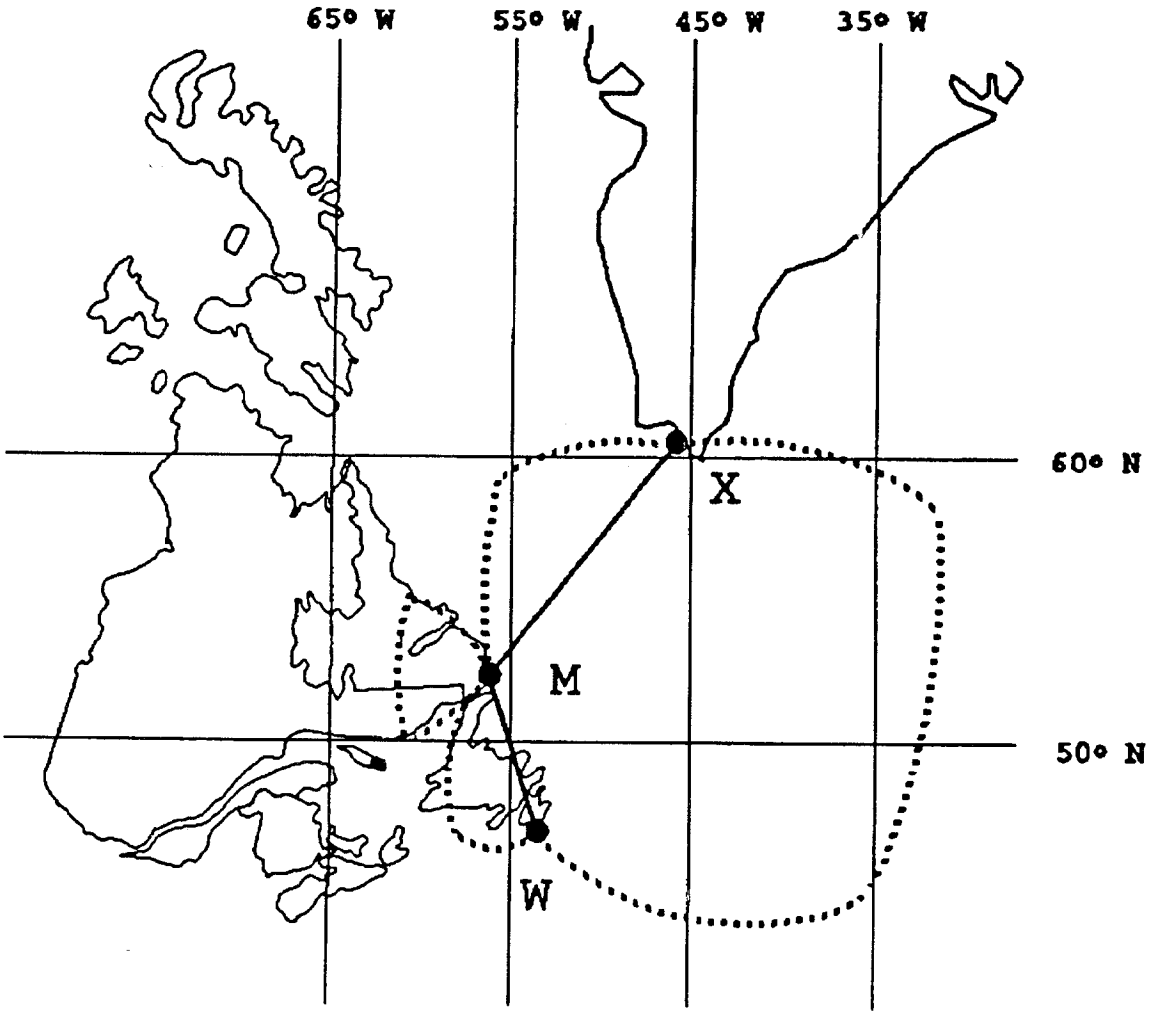
Transmitter

M Caribou, ME
X Nantucket, MA
Y Cape Race, Canada
Z Fox Harbor, Canada

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise ... 47.6 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.

FIGURE B-12. LORAN-C GRI 7930 LABRADOR SEA CHAIN



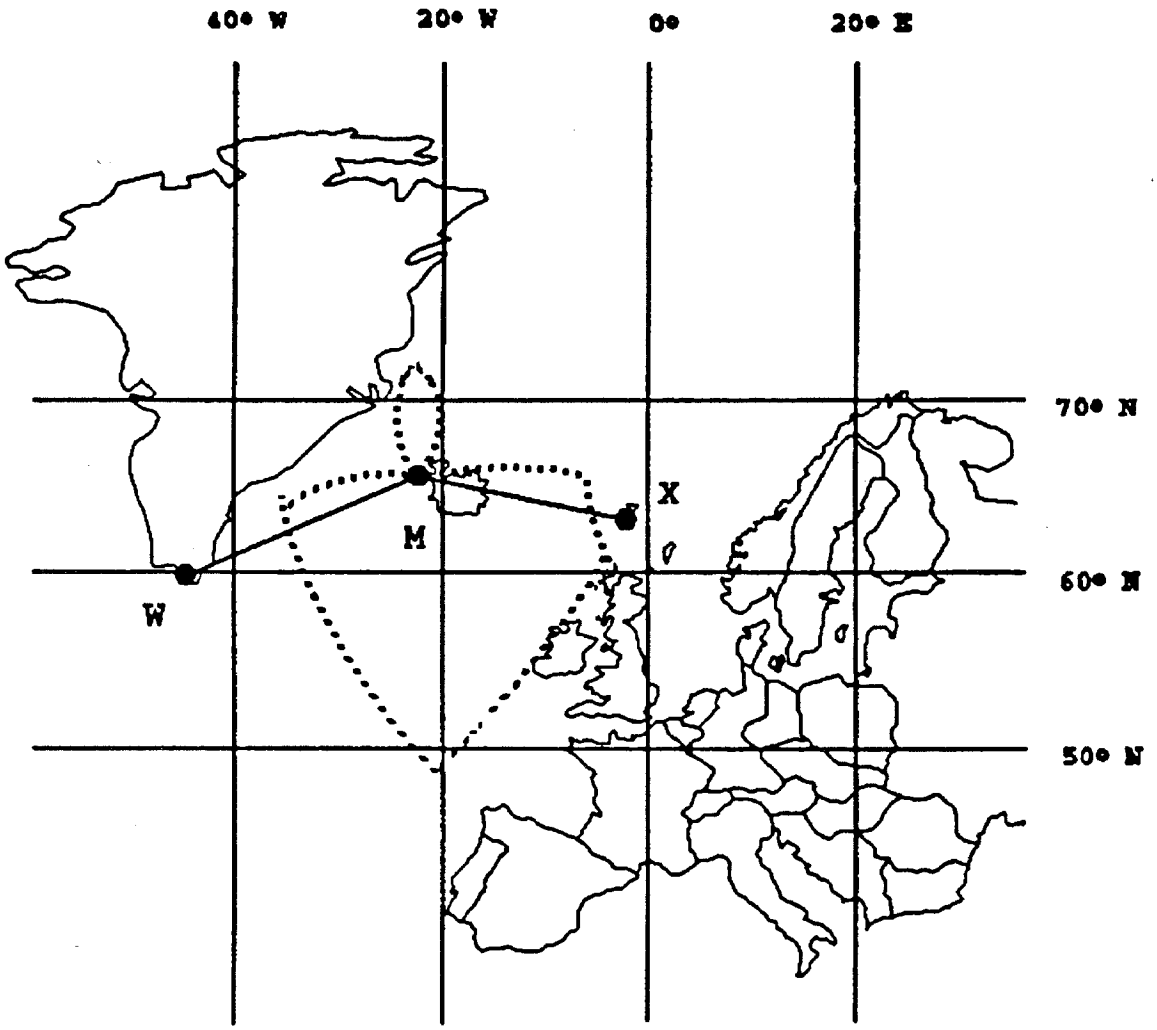
Transmitter

M Fox Harbor, Canada
W Cape Race, Canada
X Angissoq, Greenland

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise .... 43.1 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.

FIGURE B-13. LORAN-C GRI 9980 ICELANDIC SEA CHAIN



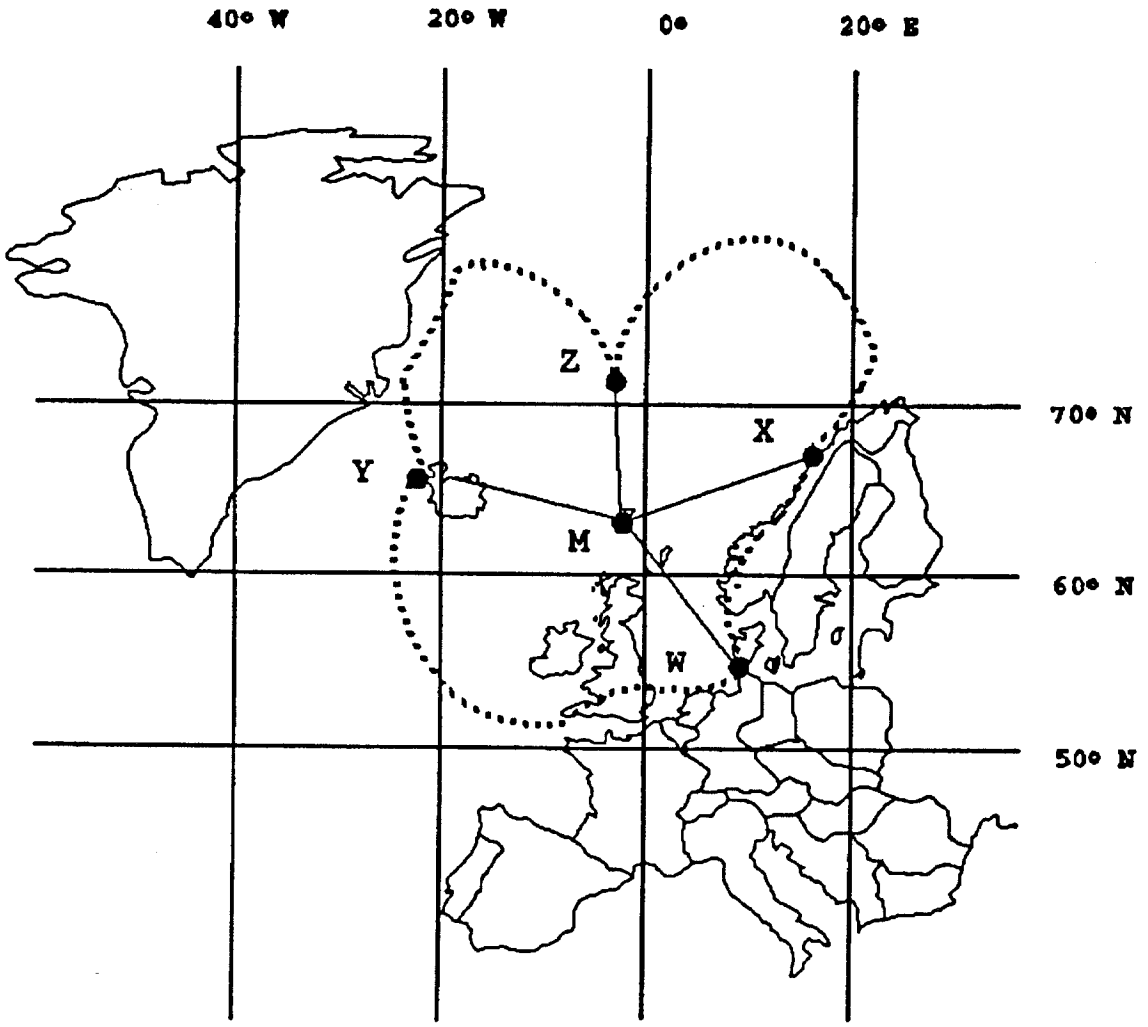
Transmitter

M Sandur, Iceland
W Angissoq, Greenland
X Ejde, Denmark

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise ... 50.0 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.

FIGURE B-14. LORAN-C GRI 7970 NORWEGIAN SEA CHAIN



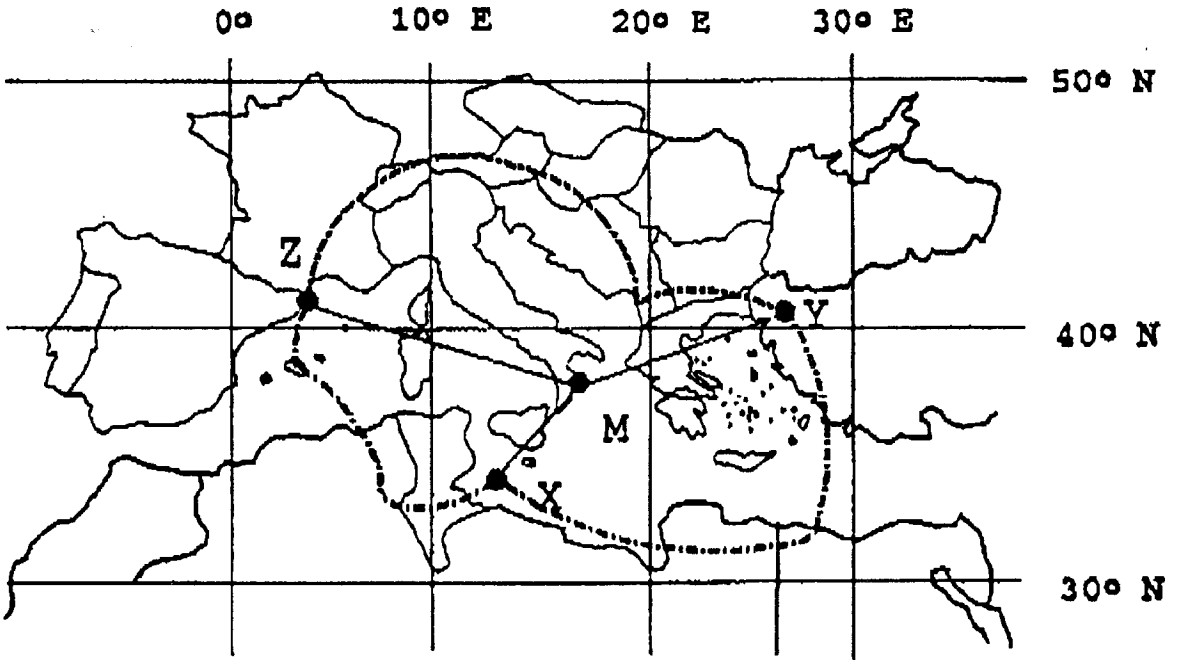
Transmitter

M Ejde. Demark
X Bo, Norway
W Sylt, Germany
Y Sandur, Iceland
Z Jan Mayen, Norway

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise ... 43.1 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.

FIGURE B-15. LORAN-C GRI 7990 MEDITERRANEAN SEA CHAIN



Transmitter

M Sellia Marina, Italy
X Lampedusa, Italy
Y Kargabarun, Turkey
Z Estartit, Spain

SNR 1:3
Fix Accuracy ..... 1/4 NM (95% 2dRMS)
Atmospheric Noise ... 51.2 dB above 1 uV/m

NOTE: *Estimated* Groundwave coverage, actual coverage will vary.