

# WORLD NAVTEX DATABASE FOR DXERS

(SORTED BY FREQUENCY & NAVAREA ORDER)

Version 16.2

Last updated 12th of February 2021

Compiled by Alan Gale, G4TMV

This Database is divided into six separate sections.

<b>Section One:</b>	<b>Local language NAVTEX Stations on 424 &amp; 486 kHz</b>
<b>Section Two:</b>	<b>NAVTEX Stations on 490 kHz</b>
<b>Section Three:</b>	<b>NAVTEX Stations on 518 kHz</b>
<b>Section Four:</b>	<b>NAVTEX Stations on 4209.5 kHz</b>
<b>Section Five:</b>	<b>Stations that are planned or proposed</b>
<b>Section Six:</b>	<b>Key to Abbreviations used</b>
<b>Section Seven:</b>	<b>Credits &amp; Sources</b>

**NOTE #1:** The Country Identifiers used in this list are taken from the **NDB List Country Code List** (available from the NDB List Info page: <https://www.ndblist.info/ndbinfo/countrylist.pdf>)

**NOTE #2:** This list is aimed only at radio enthusiasts, and it goes without saying that it should not be used for navigational purposes since the data cannot be confirmed as being 100% accurate and up to date. Any updates and corrections would be much appreciated.

**NOTE #3:** NAVTEX enthusiasts may be interested in joining the **NAVTEX DX Group**, which can be found at: <https://groups.io/g/navtexdx/>

**NOTE #4:** I highly recommend the '**NAVTEXview**' program by **Tobias Taufer (T2)**, which uses the data from this file, you can download a copy from the **NDB List Datamodes** page which can be found at: <https://www.ndblist.info/datamodes.htm>

**NOTE #5:** Separate publications showing Stations '**Sorted by Frequency & Navarea**' and '**HF NBDP**' are now available.

Updates and corrections for this list can be sent to: <**navtexupdates** at **ndblist.info**> (replace the 'at' with @)

# SECTION ONE:

# LOCAL NAVTEX SERVICES

## 424 kHz - JAPANESE LANGUAGE:

kHz:	Call:	Station Name:	Slot:	Rxx:	COU:	Country:	Latitude:	Longitude:	LOC:	Range	Transmission Times - All UTC:	Area:	Lang:	Status:
										nm:				
424.0	JNB	Naha	[G]	\$11G	JPN	Japan	26° 05.470 N	127° 40.120 E	PL36uc	400	0000, 0400, 0800, 1200, 1600, 2000	XI	JJ	active
424.0	JNR	Moji	[H]	\$11H	JPN	Japan	34° 00.900 N	130° 56.100 E	PM54la	400	0017, 0417, 0817, 1217, 1617, 2017	XI	JJ	active
424.0	JGC	Yokohama	[I]	\$11I	JPN	Japan	35° 14.550 N	139° 55.280 E	PM95xf	400	0034, 0434, 0834, 1234, 1634, 2034	XI	JJ	active
424.0	JNL	Otaru	[J]	\$11J	JPN	Japan	43° 19.530 N	140° 26.830 E	QN03fh	400	0051, 0451, 0851, 1251, 1651, 2051	XI	JJ	active
424.0	JNX	Kushiro	[K]	\$11K	JPN	Japan	42° 57.350 N	144° 35.370 E	QN22hw	400	0108, 0508, 0908, 1308, 1708, 2108	XI	JJ	active

## 486 kHz - CHINESE LANGUAGE:

kHz:	Call:	Station Name:	Slot:	Rxx:	COU:	Country:	Latitude:	Longitude:	LOC:	Range	Transmission Times - All in UTC:	Area:	Lang:	Status:
										nm:				
486.0	XSI	Sanya	[A]	\$11A	CHN	China	18° 17.490 N	109° 21.800 E	OK48qh	250	0000, 0400, 0800, 1200, 1600, 2000	XI	CC	active
486.0	XSQ	Guangzhou	[B]	\$11B	CHN	China	23° 09.560 N	113° 30.800 E	OL63sd	250	0010, 0410, 0810, 1210, 1610, 2010	XI	CC	active
486.0	XSL	Fuzhou	[C]	\$11C	CHN	China	25° 59.960 N	119° 26.500 E	OL95rx	250	0020, 0420, 0820, 1220, 1620, 2020	XI	CC	active
486.0	XSJ	Zhanjiang	[D]	\$11D	CHN	China	21° 09.000 N	110° 21.000 E	OL51ed	250	0030, 0430, 0830, 1230, 1630, 2030	XI	CC	active
486.0	XSG	Shanghai	[E]	\$11E	CHN	China	31° 06.790 N	121° 32.790 E	PM01sc	250	0040, 0440, 0840, 1240, 1640, 2040	XI	CC	active
486.0	XSZ	Dalian	[F]	\$11F	CHN	China	38° 50.690 N	121° 31.090 E	PM08su	250	0050, 0450, 0850, 1250, 1650, 2050	XI	CC	active
486.0	XSV	Tianjin	[S]	\$11S	CHN	China	39° 02.000 N	117° 26.000 E	OM89ra	250	0300, 0700, 1100, 1500, 1900, 2300	XI	CC	active

**Note:** the Japanese service is already operational and has been for some years now, but the current status of the new Chinese 'Local' Language service on 486 kHz is still a bit uncertain. It is thought that the seven stations listed are now operational, and that the Transmission Times shown above are correct, but without any listener confirmations yet we cannot verify that the Time Slots shown are correct, or the slot letters are accurate. If anyone has any further information regarding the status of these stations, I would be pleased to hear from you.

## ABBREVIATIONS FOR LANGUAGES USED BY THE LOCAL SERVICES:

Language:	ABB:
Chinese	CC
Japanese	JJ

# SECTION TWO:

# 490 kHz NAVTEX SERVICE - NATIONAL LANGUAGES:

kHz:	Call:	Station Name:	Slot:	Rxx:	COU:	Country:	Latitude:	Longitude:	LOC:	Range	Transmission Times - All UTC:	Area:	Lang:	Status:
										nm:				
490.0	EJM	Malin Head Coast Guard	[A]	\$01A	IRL	Ireland	55° 21.800 N	007° 20.390 W	IO65hi	400	0000, 0400, 0800, 1200, 1600, 2000	I	EE	active
490.0	OST	Oostende	[B]	\$01B	BEL	Belgium	51° 10.950 N	002° 48.470 E	JO11je	150	0010, 0410, 0810, 1210, 1610, 2010	I	DD	active
490.0	GPK	Portpatrick	[C]	\$01C	SCT	Scotland	54° 50.640 N	005° 07.470 W	IO74ku	270	0020, 0420, 0820, 1220, 1620, 2020	I	EE	active
490.0	TFA	Saudanes	[E]	\$01E	ISL	Iceland	66° 11.170 N	018° 57.120 W	IP06me	450	0040, 0440, 0840, 1240, 1640, 2040	I	IS	active
490.0	GNI	Niton	[I]	\$01I	ENG	England	50° 35.180 N	001° 15.290 W	IO90in	270	0120, 0520, 0920, 1320, 1720, 2120	I	EE	active
490.0	TFA	Grindavik	[K]	\$01K	ISL	Iceland	63° 49.990 N	022° 27.040 W	HP83st	450	0140, 0540, 0940, 1340, 1740, 2140	I	IS	active
490.0	DDH49	Pinneberg	[L]	\$01L	DEU	Germany	53° 40.500 N	009° 48.500 E	JO43vp	250-400	0150, 0550, 0950, 1350, 1850, 2150	I	GG	active
490.0	GNI	Niton (N. France)	[T]	\$01T	ENG	England	50° 35.180 N	001° 15.290 W	IO90in	270	0310, 0710, 1110, 1510, 1910, 2310	I	FF	active
490.0	GCC	Cullercoats	[U]	\$01U	ENG	England	55° 04.480 N	001° 27.790 W	IO95gb	270	0320, 0720, 1120, 1520, 1920, 2320	I	EE	active
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490.0	EAL	Las Palmas	[A]	\$02A	CNR	Canary Isles	28° 25.970 N	016° 20.170 W	IL18tk	400	0000, 0400, 0800, 1200, 1600, 2000	II	SS	active
490.0	FRC	CROSS Corsen	[E]	\$02E	FRA	France	48° 28.560 N	005° 03.180 W	IN78ll	300	0040, 0440, 0840, 1240, 1640, 2040	II	FF	active
490.0	CTV-251	Penalva (CENCOMAR)	[G]	\$02G	POR	Portugal	38° 36.200 N	009° 01.800 W	IM58lo	300	0100, 0500, 0900, 1300, 1700, 2100	II	PP	active
490.0	CTH	Sao Miguel (CENCOMARACORES)	[J]	\$02J	AZR	Azores	37° 48.500 N	025° 33.200 W	HM77ft	300	0130, 0530, 0930, 1330, 1730, 2130	II	PP	active
490.0	6VA	Dakar	[M]	\$02M	SEN	Senegal	14° 46.250 N	017° 20.400 W	IK14hs	250	0200, 0600, 1000, 1400, 1800, 2200	II	FF	inactive
490.0	CTQ	Porto Santo (CENCOMAMADEIRA)	[M]	\$02M	MDR	Madeira	33° 05.700 N	016° 20.170 W	IM13tc	300	0200, 0600, 1000, 1400, 1800, 2200	II	PP	active
490.0	D4A	São Vicente Radio	[P]	\$02P	CPV	Cape Verde	16° 51.240 N	025° 00.140 W	HK76lu	250	0230, 0630, 1030, 1430, 1830, 2230	II	PP	active
490.0	EAC	Tarifa	[T]	\$02T	ESP	Spain	36° 02.530 N	005° 33.380 W	IM76fb	400	0310, 0710, 1110, 1510, 1910, 2310	II	SS	active
490.0	EAR	Coruna	[W]	\$02W	ESP	Spain	43° 22.030 N	008° 27.130 W	IN53si	400	0340, 0740, 1140, 1540, 1940, 2340	II	SS	active
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490.0	TAF	Samsun	[A]	\$03A	TUR	Turkey	41° 23.000 N	036° 11.000 E	KN81cj	300	0000, 0400, 0800, 1200, 1600, 2000	III	TT	active
490.0	TAH	Istanbul	[B]	\$03B	TUR	Turkey	41° 04.000 N	028° 57.000 E	KN41lb	300	0010, 0410, 0810, 1210, 1610, 2010	III	TT	active
490.0	TAN	Izmir	[C]	\$03C	TUR	Turkey	38° 16.000 N	026° 16.000 E	KM38dg	300	0020, 0420, 0820, 1220, 1620, 2020	III	TT	active
490.0	TAL	Antalya	[D]	\$03D	TUR	Turkey	36° 09.000 N	030° 26.000 E	KM66fd	300	0030, 0430, 0830, 1230, 1630, 2030	III	TT	active
490.0	IQM	Mondolfo	[E]	\$03E	ITA	Italy	43° 44.510 N	013° 08.330 E	JN63nr	320	0040, 0440, 0840, 1240, 1640, 2040	III	IT	active
490.0	9AS	Split (Hvar Island)	[F]	\$03F	HRV	Croatia	43° 10.540 N	016° 25.380 E	JN83fe	150	0050, 0450, 0850, 1250, 1650, 2050	III	SC	active
490.0	4LR	Poti	[G]	\$03G	GEO	Georgia	42° 08.000 N	041° 40.000 E	LN02td	350	0100, 0500, 0900, 1300, 1700, 2100	III	GE	active
490.0	ICH	La Maddelana	[I]	\$03I	SAR	Sardinia	41° 13.220 N	009° 23.570 E	JN41qf	320	0120, 0520, 0920, 1320, 1720, 2120	III	IT	active
490.0		Fereydoon Kenar	[J]	\$03J	IRN	Iran	36° 42.000 N	052° 33.000 E	LM66gq	250	0130, 0530, 0930, 1330, 1730, 2130	III	PE	active
490.0	7TA	Ain Taya Radio	[K]	\$03K	ALG	Algeria	36° 48.230 N	003° 15.630 E	JM16pt	250	0140, 0540, 0940, 1340, 1740, 2140	III	FF	active
490.0	YQI	Constanta	[L]	\$03L	ROU	Romania	44° 06.000 N	028° 37.000 E	KN44hc	250	0150, 0550, 0950, 1350, 1850, 2150	III	RO	active
490.0	EAV	Valencia (Cabo de la Nao)	[M]	\$03M	ESP	Spain	38° 43.070 N	000° 10.550 E	JM08cr	220	0200, 0600, 1000, 1400, 1800, 2200	III	SS	active
490.0	UBJ	Baku (Chilov)	[M]	\$03M	AZE	Azerbaijan	40° 19.630 N	050° 36.740 E	LN50hh	200	0200, 0600, 1000, 1400, 1800, 2200	III	AZ	active
490.0	IGS	Piombino	[N]	\$03N	ITA	Italy	42° 55.000 N	010° 32.000 E	JN52gv	320	0210, 0610, 1010, 1410, 1810, 2210	III	IT	active
490.0	UWT	Taganrog	[O]	\$03O	RUS	Russia	47° 08.440 N	038° 19.650 E	KN97lf	250	0220, 0620, 1020, 1420, 1820, 2220	III	EE	active
490.0	SVK	Kerkyra	[P]	\$03P	GRC	Greece	39° 36.430 N	019° 53.470 E	JM99wo	400	0230, 0630, 1030, 1430, 1830, 2230	III	GK	active
490.0	SVH	Irákleio (Crete)	[Q]	\$03Q	GRC	Greece	35° 19.330 N	025° 44.920 E	KM25uh	280-400	0240, 0640, 1040, 1440, 1840, 2240	III	GK	active
490.0	SVL	Limnos	[R]	\$03R	GRC	Greece	39° 54.410 N	025° 10.840 E	KM29ov	400	0250, 0650, 1050, 1450, 1850, 2250	III	GK	active
490.0	FRL	CROSS La Garde	[S]	\$03S	FRA	France	43° 06.260 N	005° 59.490 E	JN23xc	250	0300, 0700, 1100, 1500, 1900, 2300	III	FF	active
490.0	UKW	Berdiansk	[U]	\$03U	UKR	Ukraine	46° 38.170 N	036° 45.720 E	KN86jp	120	0320, 0720, 1120, 1520, 1920, 2320	III	EE	active
490.0	ICI	Sellia Marina	[W]	\$03W	ITA	Italy	38° 52.210 N	016° 43.060 E	JM88iu	320	0340, 0740, 1140, 1540, 1940, 2340	III	IT	active
490.0	UTT	Odesa	[X]	\$03X	UKR	Ukraine	46° 22.650 N	030° 44.850 E	KN56ij	280	0350, 0750, 1150, 1550, 1950, 2350	III	EE	active
490.0		Kibris Turk Radio	[X]	\$03X	CYP	N. Cyprus	Heard with irregular broadcasts in other slots, not IMO authorised				III	TT	active	

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490.0	VCK	Moise CG, QC (VCG)	[D]	\$04D	CAN	Canada	50° 11.750 N	066° 06.740 W	FO60we	300	0030, 0430, 0830, 1230, 1630, 2030	IV	FF	active	
490.0	VCO	Port Caledonia CG, NS	[J]	\$04J	CAN	Canada	46° 11.150 N	059° 53.770 W	GN06be	300	0130, 0530, 0930, 1330, 1730, 2130	IV	FF	active	
490.0	HJW	Santa Marta	[K]	\$04K	CLM	Colombia	11° 03.330 N	074° 13.100 W	FK21vb	300	0140, 0540, 0940, 1340, 1740, 2140	IV	SS	active	
490.0	VFF	Iqaluit CG, NU (May-Dec only)	[S]	\$04S	CAN	Canada	63° 43.820 N	068° 32.700 W	FP53rr	150	0300, 0700, 1100, 1500, 1900, 2300	IV	FF	active	
490.0	VAR-9	Chebogue CG, NB (VAR)	[V]	\$04V	CAN	Canada	43° 44.650 N	066° 07.320 W	FN63wr	300	0335, 0735, 1135, 1535, 1935, 2335	IV	FF	active	
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490.0	CWM27	La Paloma	[A]	\$06A	URG	Uruguay	34° 40.000 S	054° 09.000 W	GF25wh	280	0000, 0400, 0800, 1200, 1600, 2000	VI	SS	inactive	
490.0	L3K	Ushuaia	[A]	\$06A	ARG	Argentina	54° 48.000 S	068° 18.000 W	FD55ue	280	0000, 0400, 0800, 1200, 1600, 2000	VI	SS	active	
490.0	L3D	Río Gallegos	[B]	\$06B	ARG	Argentina	51° 37.000 S	069° 12.000 W	FD58jj	280	0010, 0410, 0810, 1210, 1610, 2010	VI	SS	active	
490.0	L2W	Comodoro Rivadavia	[C]	\$06C	ARG	Argentina	45° 50.500 S	067° 28.400 W	FE64gd	280	0020, 0420, 0820, 1220, 1620, 2020	VI	SS	active	
490.0	L2I	Bahia Blanca	[D]	\$06D	ARG	Argentina	38° 52.000 S	062° 06.000 W	FF81wd	280	0030, 0430, 0830, 1230, 1630, 2030	VI	SS	active	
490.0	L2P	Mar del Plata	[E]	\$06E	ARG	Argentina	38° 03.000 S	057° 32.000 W	GF11fw	280	0040, 0440, 0840, 1240, 1640, 2040	VI	SS	active	
490.0	L2B	Buenos Aires	[F]	\$06F	ARG	Argentina	35° 29.000 S	057° 10.000 W	GF14jm	280	0050, 0450, 0850, 1250, 1650, 2050	VI	SS	active	
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490.0	S7Q	Mahé	[M]	\$08M	SEY	Seychelles	04° 39.320 S	055° 28.380 E	LI75ri	250	0200, 0600, 1000, 1400, 1800, 2200	VIII	CR	active	
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490.0	EQM	Bushehr	[D]	\$09D	IRN	Iran	28° 59.000 N	050° 49.000 E	LL58jx	300	0030, 0430, 0830, 1230, 1630, 2030	IX	PE	active	
490.0	EQI	Bandar-e-Shahid Rajai	[I]	\$09I	IRN	Iran	27° 06.000 N	056° 03.000 E	LL87ac	300	0120, 0520, 0920, 1320, 1720, 2120	IX	PE	active	
490.0		Um Qaşr	[W]	\$09W	IRQ	Iraq	30° 01.890 N	047° 56.880 E	LM30xa	200	0340, 0740, 1140, 1540, 1940, 2340	IX	EE	active	
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490.0	HMZ	Pyongyang	[A]	\$11A	KRE	North Korea	38° 59.580 N	125° 42.930 E	PM28ux	200	0000, 0400, 0800, 1200, 1600, 2000	XI	KO	active	
490.0	HMH	Hamhung	[B]	\$11B	KRE	North Korea	39° 50.000 N	127° 41.020 E	PM39ut	200	0010, 0410, 0810, 1210, 1610, 2010	XI	KO	active	
490.0	XVT	Da Nang	[F]	\$11F	VTN	Vietnam	16° 03.330 N	108° 09.420 E	OK46bb	400	0050, 0450, 0850, 1250, 1650, 2050	XI	VV	active	
490.0	HL	Chukpyon	[J]	\$11J	KOR	South Korea	37° 03.450 N	129° 25.700 E	PM47rb	200	0130, 0530, 0930, 1330, 1730, 2130	XI	KO	active	
490.0	HL	Pyonsan (Byeonsan)	[K]	\$11K	KOR	South Korea	35° 35.820 N	126° 29.180 E	PM35fo	200	0140, 0540, 0940, 1340, 1740, 2140	XI	KO	active	
490.0		Hai Phong	[M]	\$11M	VTN	Vietnam	20° 50.920 N	106° 41.320 E	OL30iu	400	0200, 0600, 1000, 1400, 1800, 2200	XI	VV	active	
490.0	XVR	Vung Tau	[V]	\$11V	VTN	Vietnam	10° 23.670 N	107° 08.680 E	OK30nj	400	0330, 0730, 1130, 1530, 1930, 2330	XI	VV	active	
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490.0	HCY	Ayora	[A]	\$12A	GAL	Galapagos	00° 43.030 S	090° 19.630 W	EI49ug	250-400	0000, 0400, 0800, 1200, 1600, 2000	XII	SS	inactive	
490.0		Buenaventura	[C]	\$12C	CLM	Colombia	03° 54.180 N	077° 03.770 W	FJ13lv	300	0020, 0420, 0820, 1220, 1620, 2020	XII	SS	active	
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490.0	CBA	Antofagasta	[G]	\$15G	CHL	Chile	23° 29.470 S	070° 25.390 W	FG46sm	400	0100, 0500, 0900, 1300, 1700, 2100	XV	SS	active	
490.0	CBV	Valparaíso (Playa Ancha)	[H]	\$15H	CHL	Chile	32° 48.370 S	071° 29.230 W	FF47ge	300	0110, 0510, 0910, 1310, 1710, 2110	XV	SS	active	
490.0	CBT	Talcahuano	[I]	\$15I	CHL	Chile	36° 37.750 S	073° 07.010 W	FF33ki	400	0120, 0520, 0920, 1320, 1720, 2120	XV	SS	active	
490.0	CBP	Puerto Montt	[J]	\$15J	CHL	Chile	41° 47.060 S	073° 52.750 W	FE38bf	400	0130, 0530, 0930, 1330, 1730, 2130	XV	SS	active	
490.0	CBM	Punta Arenas (Magallenes)	[K]	\$15K	CHL	Chile	52° 55.700 S	070° 53.420 W	FD47nb	400	0140, 0540, 0940, 1340, 1740, 2140	XV	SS	active	
490.0	CBY	Isla de Pascua	[L]	\$15L	PAQ	Easter Island	27° 08.830 S	109° 22.610 W	DG52hu	400	0150, 0550, 0950, 1350, 1750, 2150	XV	SS	inactive	

# SECTION THREE:

# 518 kHz NAVTEX SERVICE - INTERNATIONAL LANGUAGES:

kHz:	Call:	Location:	Slot:	Rxx:	COU:	Country:	Latitude:	Longitude:	LOC:	Range	Transmission Times - All in UTC:	Area:	Lang:	Status:
										nm:				
518.0	OXJ	Tórshavn	[D]	\$01D	FRO	Faroes	62° 00.870 N	006° 47.450 W	IP62oa	250	0030, 0430, 0830, 1230, 1630, 2030	I	EE	active
518.0	GNI	Niton	[E]	\$01E	ENG	England	50° 35.180 N	001° 15.290 W	IO90io	270	0040, 0440, 0840, 1240, 1640, 2040	I	EE	active
518.0	ESA	Tallinn	[F]	\$01F	EST	Estonia	59° 27.840 N	024° 21.420 E	KO29el	250	0050, 0450, 0850, 1250, 1650, 2040	I	EE	active
518.0	GCC	Cullercoats	[G]	\$01G	ENG	England	55° 04.480 N	001° 27.790 W	IO95gb	270	0100, 0500, 0900, 1300, 1700, 2100	I	EE	active
518.0	SDJ	Bjuröklubb	[H]	\$01H	SWE	Sweden	64° 27.710 N	021° 35.470 E	KP04tl	300	0110, 0510, 0910, 1310, 1710, 2110	I	EE	active
518.0	SDJ	Grimeton	[I]	\$01I	SWE	Sweden	57° 06.320 N	012° 23.360 E	JO67ec	300	0120, 0520, 0920, 1320, 1720, 2120	I	EE	active
518.0	SDJ	Gislövshammar	[J]	\$01J	SWE	Sweden	55° 29.380 N	014° 18.870 E	JO75dl	300	0130, 0530, 0930, 1330, 1730, 2130	I	EE	active
518.0	GNI	Niton (N. France)	[K]	\$01K	ENG	England	50° 35.180 N	001° 15.290 W	IO93io	270	0140, 0540, 0940, 1340, 1740, 2140	I	EE	active
518.0	LGQ	Rogaland Radio (Vigre site)	[L]	\$01L	NOR	Norway	58° 38.920 N	005° 36.580 E	JO28tp	450	0150, 0550, 0950, 1350, 1750, 2150	I	EE	active
518.0	LGT	Jeløya	[M]	\$01M	NOR	Norway	59° 26.080 N	010° 35.480 E	JO59hk	450	0200, 0600, 1000, 1400, 1800, 2200	I	EE	active
518.0	LFO	Orlandet Radio (Grande site) (#1)	[N]	\$01N	NOR	Norway	63° 39.700 N	009° 32.800 E	JP43sp	450	0210, 0610, 1010, 1410, 1810, 2210	I	EE	active
518.0	GPK	Portpatrick	[O]	\$01O	SCT	Scotland	54° 50.640 N	005° 07.470 W	IO74ku	270	0220, 0620, 1020, 1420, 1820, 2220	I	EE	active
518.0	PBK	Netherlands Coastguard	[P]	\$01P	HOL	Netherlands	52° 55.060 N	004° 44.340 E	JO22iw	250	0230, 0630, 1030, 1430, 1830, 2230	I	EE	active
518.0	EJM	Malin Head Coast Guard	[Q]	\$01Q	IRL	Ireland	55° 21.800 N	007° 20.390 W	IO65hi	400	0240, 0640, 1040, 1440, 1840, 2240	I	EE	active
518.0	TFA	Saudanes	[R]	\$01R	ISL	Iceland	66° 11.170 N	018° 57.120 E	IP06me	450	0250, 0650, 1050, 1450, 1850, 2250	I	EE	active
518.0	DDH51	Pinneberg	[S]	\$01S	DEU	Germany	53° 40.500 N	009° 48.500 E	JO43vq	250-400	0300, 0700, 1100, 1500, 1900, 2300	I	EE	active
518.0	OST	Oostende	[T]	\$01T	BEL	Belgium	51° 10.950 N	002° 48.470 E	JO11je	150	0310, 0710, 1110, 1510, 1910, 2310	I	EE	active
518.0	OST	Oostende (Thames)	[V]	\$01V	BEL	Belgium	51° 10.950 N	002° 48.470 E	JO11je	150	0330, 0730, 1130, 1530, 1930, 2330	I	EE	active
518.0	EJK	Valentia Coast Guard	[W]	\$01W	IRL	Ireland	51° 56.000 N	010° 21.000 W	IO41tw	400	0340, 0740, 1140, 1540, 1940, 2340	I	EE	active
518.0	TFA	Grindavik	[X]	\$01X	ISL	Iceland	63° 49.990 N	022° 27.040 W	HP83st	450	0350, 0750, 1150, 1550, 1950, 2350	I	EE	active

**NOTE # 1:** NAVTEX station operated from Rogaland Radio/LGQ

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518.0	FRC	CROSS Corsen	[A]	\$02A	FRA	France	48° 28.560 N	005° 03.180 W	IN78ll	300	0000, 0400, 0800, 1200, 1600, 2000	II	EE	active
518.0	6VA	Dakar	[C]	\$02C	SEN	Senegal	14° 46.250 N	017° 20.400 W	IK14hs	250	0020, 0420, 0820, 1220, 1620, 2020	II	EE	inactive
518.0	EAR	Coruna	[D]	\$02D	ESP	Spain	43° 22.030 N	008° 27.130 W	IN53si	400	0030, 0430, 0830, 1230, 1630, 2030	II	EE	active
518.0	CTH	Sao Miguel (CENCOMARACORES)	[F]	\$02F	AZR	Azores	37° 48.500 N	025° 33.200 W	HM77ft	300	0050, 0450, 0850, 1250, 1650, 2050	II	EE	active
518.0	EAC	Tarifa	[G]	\$02G	ESP	Spain	36° 02.530 N	005° 33.380 W	IM76fb	400	0100, 0500, 0900, 1300, 1700, 2100	II	EE	active
518.0	EAL	Las Palmas	[I]	\$02I	CNR	Canary Isles	28° 25.970 N	016° 20.170 W	IL18tk	400	0120, 0520, 0920, 1320, 1720, 2120	II	EE	active
518.0	CTQ	Porto Santo (CENCOMAMADEIRA)	[P]	\$02P	MDR	Madeira	33° 05.700 N	016° 20.400 W	IM13tc	300	0230, 0630, 1030, 1430, 1830, 2230	II	EE	active
518.0	CTV-251	Penalva (CENCOMAR)	[R]	\$02R	POR	Portugal	38° 36.200 N	009° 01.800 W	IM58lo	300	0250, 0650, 1050, 1450, 1850, 2250	II	EE	active
518.0	D4A	São Vicente Radio	[U]	\$02U	CPV	Cape Verde	16° 51.240 N	025° 00.140 W	HK76lu	250	0320, 0720, 1120, 1520, 1920, 2320	II	EE	inactive

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518.0	UFN	Novorossiysk	[A]	\$03A	RUS	Russia	44° 36.000 N	037° 58.000 E	KN84xo	300	0000, 0400, 0800, 1200, 1600, 2000	III	EE	active
518.0	7TA	Ain Taya Radio	[B]	\$03B	ALG	Algeria	36° 48.230 N	003° 15.630 E	JM16pt	200	0010, 0410, 0810, 1210, 1610, 2010	III	EE	active
518.0	UTT	Odesa	[C]	\$03C	UKR	Ukraine	46° 22.650 N	030° 44.850 E	KN56ij	280	0020, 0420, 0820, 1220, 1620, 2020	III	EE	active
518.0	TAH	Istanbul	[D]	\$03D	TUR	Turkey	41° 04.000 N	028° 57.000 E	KN41lb	300	0030, 0430, 0830, 1230, 1630, 2030	III	EE	active
518.0	TAF	Samsun	[E]	\$03E	TUR	Turkey	41° 23.000 N	036° 11.000 E	KN81cj	300	0040, 0440, 0840, 1240, 1640, 2040	III	EE	active
518.0	TAL	Antalya	[F]	\$03F	TUR	Turkey	36° 09.000 N	030° 26.000 E	KM66fd	300	0050, 0450, 0850, 1250, 1650, 2050	III	EE	active
518.0	UKW	Berdiansk	[G]	\$03G	UKR	Ukraine	46° 38.170 N	036° 45.720 E	KN86jp	250	0100, 0500, 0900, 1300, 1700, 2100	III	EE	active
518.0		Fereydoon Kenar	[G]	\$03G	IRN	Iran	36° 42.000 N	052° 33.000 E	LM66gq	250	0100, 0500, 0900, 1300, 1700, 2100	III	EE	active
518.0	SVH	Irakleio (Crete)	[H]	\$03H	GRC	Greece	35° 19.330 N	025° 44.920 E	KM25uh	280-400	0110, 0510, 0910, 1310, 1710, 2110	III	EE	active
518.0	TAN	Izmir	[I]	\$03I	TUR	Turkey	38° 16.000 N	026° 16.000 E	KM38dg	300	0120, 0520, 0920, 1320, 1720, 2120	III	EE	active

518.0	LZW	Varna	[J]	\$03J	BUL	Bulgaria	43° 04.010 N	027° 47.190 E	KN33vb	350	0130, 0530, 0930, 1330, 1730, 2130	III	EE	active
518.0	SVK	Kerkyra	[K]	\$03K	GRC	Greece	39° 36.430 N	019° 53.470 E	JM99wo	400	0140, 0540, 0940, 1340, 1740, 2140	III	EE	active
518.0	SVL	Limnos	[L]	\$03L	GRC	Greece	39° 54.410 N	025° 10.840 E	KM29ov	400	0150, 0550, 0950, 1350, 1750, 2150	III	EE	active
518.0	5BA	Cyprus	[M]	\$03M	CYP	Cyprus	34° 44.280 N	032° 95.520 E	KM64hr	220	0200, 0600, 1000, 1400, 1800, 2200	III	EE	active
518.0	SUH	Alexandria	[N]	\$03N	EGY	Egypt	31° 12.000 N	029° 52.000 E	KM41we	350	0210, 0610, 1010, 1410, 1810, 2210	III	EE	active
518.0	9HD	Malta	[O]	\$03O	MLT	Malta	35° 50.290 N	014° 29.380 E	JM75fu	400	0220, 0620, 1020, 1420, 1820, 2220	III	EE	active
518.0	4XO	Haifa	[P]	\$03P	ISR	Israel	32° 54.900 N	035° 07.100 E	KM72nv	200	0230, 0630, 1030, 1430, 1830, 2230	III	EE	active
518.0	9AS	Split (Hvar Island)	[Q]	\$03Q	HRV	Croatia	43° 10.540 N	016° 25.280 E	JN83fe	150	0240, 0640, 1040, 1440, 1840, 2240	III	EE	active
518.0	ICH	La Maddalena	[R]	\$03R	SAR	Sardinia	41° 13.220 N	009° 23.570 E	JN41qf	320	0250, 0650, 1050, 1450, 1850, 2250	III	EE	active
518.0	UBJ	Baku (Chilov)	[R]	\$03R	AZE	Azerbaijan	40° 19.630 N	050° 36.740 E	LN50hh	200	0250, 0650, 1050, 1450, 1850, 2250	III	EE	active
518.0	3VL	Kelibia (broadcasts via Malta \$03O)	[T]	\$03T	TUN	Tunisia	36° 48.080 N	011° 02.290 E	JM56mt	270	0310, 0710, 1110, 1510, 1910, 2310	III	EE	via Malta
518.0	IQM	Mondolfo	[U]	\$03U	ITA	Italy	43° 44.510 N	013° 08.330 E	JN63nr	320	0320, 0720, 1120, 1520, 1920, 2320	III	EE	active
518.0	ICI	Sellia Marina	[V]	\$03V	ITA	Italy	38° 52.210 N	016° 43.060 E	JM88iu	320	0330, 0730, 1130, 1530, 1930, 2330	III	EE	active
518.0	FRL	CROSS La Garde	[W]	\$03W	FRA	France	43° 06.260 N	005° 59.490 E	JN23xc	250	0340, 0740, 1140, 1540, 1940, 2340	III	EE	inactive
518.0	UJB	Astrakhan (Caspian)	[W]	\$03W	RUS	Russia	45° 47.000 N	047° 33.000 E	LN35ss	250	0340, 0740, 1140, 1540, 1940, 2340	III	EE	active
518.0	EAV	Valencia (Cabo de la Nao)	[X]	\$03X	ESP	Spain	38° 43.070 N	000° 10.550 E	JM08cr	300	0350, 0750, 1150, 1550, 1950, 2350	III	EE	active

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518.0	NMA	Miami, FL	[A]	\$04A	USA	United States	25° 37.400 N	080° 23.370 W	EL95to	240	0000, 0400, 0800, 1200, 1600, 2000	IV	EE	active
518.0	ZBR	Bermuda Harbour	[B]	\$04B	BER	Bermuda	32° 21.070 N	064° 39.460 W	FM72qi	280	0010, 0410, 0810, 1210, 1610, 2010	IV	EE	active
518.0	VCK	Moise CG, QC (VCG)	[C]	\$04C	CAN	Canada	50° 11.750 N	066° 06.740 W	FO60we	300	0020, 0420, 0820, 1220, 1620, 2020	IV	EE	active
518.0	HJW	Santa Marta	[C]	\$04C	CLM	Colombia	11° 03.330 N	074° 13.100 W	FK21vb	300	0020, 0420, 0820, 1220, 1620, 2020	IV	EE	active
518.0	NME	Charleston, SC	[E]	\$04E	USA	United States	32° 50.670 N	079° 57.000 W	FM02au	200	0040, 0440, 0840, 1240, 1640, 2040	IV	EE	active
518.0	NMF	Boston, MA	[F]	\$04F	USA	United States	41° 42.820 N	070° 30.270 W	FN41sr	200	0050, 0450, 0850, 1250, 1650, 2050	IV	EE	active
518.0	NMG	New Orleans, LA	[G]	\$04G	USA	United States	29° 53.080 N	089° 56.730 W	EL59av	200	0100, 0500, 0900, 1300, 1700, 2100	IV	EE	active
518.0	XMJ329	Ferndale CG, ON (VBR)	[H]	\$04H	CAN	Canada	44° 56.220 N	081° 14.000 W	EN94jw	300	0110, 0510, 0910, 1310, 1710, 2110	IV	EE	active
518.0	PJC	Curacao	[H]	\$04H	ATN	Netherland Ant.	12° 10.310 N	068° 51.820 W	FK52ne	250	0110, 0510, 0910, 1310, 1710, 2110	IV	EE	active
518.0	OXF	Simiutaq (Cape Farewell area)	[M]	\$04M	GRL	Greenland	60° 41.000 N	046° 35.000 W	GP60rq	300	0200, 0600, 1000, 1400, 1800, 2200	IV	EE	active
518.0	NMN	CAMSLANT Portsmouth, VA	[N]	\$04N	USA	United States	36° 43.720 N	076° 00.600 W	FM16xr	280	0210, 0610, 1010, 1410, 1810, 2210	IV	EE	active
518.0	VON	Robin Hood Bay CG, NL	[O]	\$04O	CAN	Canada	47° 36.650 N	052° 40.180 W	GN37po	300	0220, 0620, 1020, 1420, 1820, 2220	IV	EE	active
518.0	XLJ895	Pass Lake CG, ON (VBA)	[P]	\$04P	CAN	Canada	48° 33.800 N	088° 39.370 W	EN58qn	300	0230, 0630, 1030, 1430, 1830, 2230	IV	EE	active
518.0	VCO	Port Caledonia CG, NS	[Q]	\$04Q	CAN	Canada	46° 11.150 N	059° 53.770 W	GN06be	300	0240, 0640, 1040, 1440, 1840, 2240	IV	EE	active
518.0	NMR	Isabella - San Juan, PR	[R]	\$04R	PTR	Puerto Rico	18° 28.000 N	067° 04.320 W	FK68ll	200	0250, 0650, 1050, 1450, 1850, 2250	IV	EE	active
518.0	VFF	Iqaluit CG, NU (May-Dec only)	[T]	\$04T	CAN	Canada	63° 43.820 N	068° 32.700 W	FP53rr	150	0310, 0710, 1110, 1510, 1910, 2310	IV	EE	active
518.0	VAR-9	Chebogue CG, NB (VAR)	[U]	\$04U	CAN	Canada	43° 44.650 N	066° 07.320 W	FN63wr	300	0320, 0720, 1120, 1520, 1920, 2320	IV	EE	active
518.0	OXI	Nuuk (Kook Island)	[W]	\$04W	GRL	Greenland	64° 04.000 N	052° 01.000 W	GP34xb	400	0340, 0740, 1140, 1540, 1940, 2340	IV	EE	active
518.0	VOK	Cartwright CG, NL	[X]	\$04X	CAN	Canada	53° 42.520 N	057° 01.350 W	GO13lq	300	0350, 0750, 1150, 1550, 1950, 2350	IV	EE	active

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518.0	CWM27	La Paloma	[A]	\$06A	URG	Uruguay	34° 40.000 S	054° 09.000 W	GF25wh	280	0000, 0400, 0800, 1200, 1600, 2000	VI	EE	inactive
518.0	L3K	Ushuaia	[M]	\$06M	ARG	Argentina	54° 48.000 S	068° 18.000 W	FD55ue	280	0200, 0600, 1000, 1400, 1800, 2200	VI	EE	active
518.0	L3D	Río Gallegos	[N]	\$06N	ARG	Argentina	51° 37.000 S	069° 12.000 W	FD58jj	280	0210, 0610, 1010, 1410, 1810, 2210	VI	EE	active
518.0	L2W	Comodoro Rivadavia	[O]	\$06O	ARG	Argentina	45° 50.500 S	067° 28.400 W	FE64gd	280	0220, 0620, 1020, 1410, 1810, 2210	VI	EE	active
518.0	L2I	Bahia Blanca	[P]	\$06P	ARG	Argentina	38° 52.000 S	062° 06.000 W	FF81wd	280	0230, 0630, 1030, 1430, 1830, 2230	VI	EE	active
518.0	L2P	Mar del Plata	[Q]	\$06Q	ARG	Argentina	38° 03.000 S	057° 32.000 W	GF11fw	280	0240, 0640, 1040, 1440, 1840, 2240	VI	EE	active
518.0	L2B	Buenos Aires	[R]	\$06R	ARG	Argentina	35° 29.000 S	058° 10.000 W	GF14jm	280	0250, 0650, 1050, 1450, 1850, 2250	VI	EE	active

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518.0	V5W	Walvis Bay	[B]	\$07B	NMB	Namibia	23° 03.000 S	014° 37.000 E	JG76hw	380	0010, 0410, 0810, 1210, 1610, 2010	VII	EE	inactive
518.0	ZSC	Cape Town	[C]	\$07C	AFS	South Africa	33° 40.090 S	018° 43.090 E	JF96ih	500	0020, 0420, 0820, 1220, 1620, 2020	VII	EE	active

518.0	ZSQ	Port Elizabeth	[I]	\$07I	AFS	South Africa	34° 02.200 S	025° 33.370 E	KF25sx	500	0120, 0520, 0920, 1320, 1720, 2120	VII	EE	active
518.0	ZSD	Durban	[O]	\$07O	AFS	South Africa	29° 48.350 S	030° 48.950 E	KG50je	250	0220, 0620, 1020, 1420, 1820, 2220	VII	EE	active
518.0	ZSM	Cape Columbine	[U]	\$07U	AFS	South Africa	32° 49.000 S	017° 51.000 E	JF87we	250	0320, 0720, 1120, 1520, 1920, 2320	VII	EE	active
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518.0	3BM	Mauritius Radio (Cassis)	[C]	\$08C	MAU	Mauritius	20° 10.050 S	057° 28.690 E	LG89rt	400	0020, 0420, 0820, 1220, 1620, 2020	VIII	EE	active
518.0		Veraval (Gujarat)	[H]	\$08H	IND	India	20° 54.600 N	070° 23.000 E	ML50ev	250	0110, 0510, 0910, 1310, 1710, 2110	VIII	EE	active
518.0	VUU	Vengrula (Maharashtra)	[J]	\$08J	IND	India	15° 51.200 N	073° 37.000 E	MK65tu	250	0130, 0530, 0930, 1330, 1730, 2130	VIII	EE	active
518.0		Muttam Point (Tamil Nadu)	[L]	\$08L	IND	India	08° 07.400 N	077° 19.100 E	MJ88pc	250	0150, 0550, 0950, 1350, 1750, 2150	VIII	EE	active
518.0		Porto Novo (Tamil Nadu)	[O]	\$08O	IND	India	11° 30.200 N	079° 46.200 E	MK91vm	250	0220, 0620, 1020, 1410, 1810, 2210	VIII	EE	active
518.0		Vakalpudi (Andhra Pradesh)	[Q]	\$08Q	IND	India	17° 00.800 N	082° 17.100 E	NK17da	250	0240, 0640, 1040, 1440, 1840, 2240	VIII	EE	active
518.0		Balasure (Orissa)	[S]	\$08S	IND	India	21° 29.200 N	086° 55.000 E	NL31ll	250	0300, 0700, 1100, 1500, 1900, 2300	VIII	EE	active
518.0	S7Q	Mahé	[T]	\$08T	SEY	Seychelles	04° 39.320 S	055° 28.380 E	LI75ri	250	0310, 0710, 1110, 1510, 1910, 2310	VIII	EE	active
518.0	VWP	Keating Point (Andaman)	[V]	\$08V	IND	India	09° 15.000 N	092° 46.000 E	NJ69jg	250	0330, 0730, 1130, 1530, 1930, 2330	VIII	EE	active
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518.0	EQM	Bushehr	[A]	\$09A	IRN	Iran	28° 59.000 N	050° 49.000 E	LL58jx	300	0000, 0400, 0800, 1200, 1600, 2000	IX	EE	active
518.0	A9M	Hamala	[B]	\$09B	BHR	Bahrain	26° 09.530 N	050° 28.350 E	LL56fd	300	0010, 0410, 0810, 1210, 1610, 2010	IX	EE	active
518.0	EQI	Bandar-e-Shahid Rajai	[F]	\$09F	IRN	Iran	27° 06.000 N	056° 03.000 E	LL87ac	300	0050, 0450, 0850, 1250, 1650, 2050	IX	EE	active
518.0	HZG	Dammam	[G]	\$09G	ARS	Saudi Arabia	26° 26.000 N	050° 06.000 E	LL56bk	390	0100, 0500, 0900, 1300, 1700, 2100	IX	EE	inactive
518.0	HZH	Jeddah	[H]	\$09H	ARS	Saudi Arabia	20° 39.200 N	039° 32.590 E	KL90sp	390	0110, 0510, 0910, 1310, 1710, 2110	IX	EE	active
518.0	A4M	Wattayah/Muscat	[M]	\$09M	OMA	Oman	23° 36.770 N	058° 30.260 E	LL93go	270	0200, 0600, 1000, 1400, 1800, 2200	IX	EE	inactive
518.0	ASK	Karachi	[P]	\$09P	PAK	Pakistan	24° 52.770 N	067° 09.940 E	ML34nv	400	0230, 0630, 1030, 1430, 1830, 2230	IX	EE	inactive
518.0	SUK	Kosseir (Al Qusayr)	[V]	\$09V	EGY	Egypt	26° 06.000 N	034° 17.000 E	KL76dc	350	0330, 0730, 1130, 1530, 1930, 2330	IX	EE	active
518.0	SUZ	Ismailia (al Ismailiyah)	[X]	\$09X	EGY	Egypt	30° 28.000 N	032° 22.000 E	KM60el	400	0350, 0750, 1150, 1550, 1950, 2350	IX	EE	active
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518.0	PNK	Jayapura	[A]	\$11A	INS	Indonesia	02° 31.130 S	140° 43.300 E	QI07il	300	0000, 0400, 0800, 1200, 1600, 2000	XI	EE	active
518.0	PKE	Ambon	[B]	\$11B	INS	Indonesia	03° 41.680 S	128° 11.880 E	PI46ch	300	0010, 0410, 0810, 1210, 1610, 2010	XI	EE	active
518.0	9VG	Singapore POCC	[C]	\$11C	SNG	Singapore	01° 20.650 N	103° 58.350 E	OJ11xi	400	0020, 0420, 0820, 1220, 1620, 2020	XI	EE	active
518.0	PKF	Makassar	[D]	\$11D	INS	Indonesia	05° 04.890 S	119° 29.830 E	OI94rw	300	0030, 0430, 0830, 1230, 1630, 2030	XI	EE	active
518.0	HMZ	Pyongyang	[D]	\$11D	KRE	North Korea	38° 59.580 N	125° 42.930 E	PM28ux	200	0030, 0430, 0830, 1230, 1630, 2030	XI	EE	active
518.0	PKX	Jakarta	[E]	\$11E	INS	Indonesia	06° 07.150 S	106° 51.780 E	OI33kv	300	0040, 0440, 0840, 1240, 1640, 2040	XI	EE	active
518.0	HMH	Hamhung	[E]	\$11E	KRE	North Korea	39° 50.000 N	127° 41.020 E	PM39ut	200	0030, 0430, 0830, 1230, 1630, 2030	XI	EE	active
518.0	HSA	Bangkok (Nonthaburi)	[F]	\$11F	THA	Thailand	13° 01.470 N	100° 01.200 E	OK03aa	200	0050, 0450, 0850, 1250, 1650, 2050	XI	EE	active
518.0	JNB	Naha	[G]	\$11G	JPN	Japan	26° 05.470 N	127° 40.120 E	PL36uc	400	0100, 0500, 0900, 1300, 1700, 2100	XI	EE	active
518.0	JNR	Moji	[H]	\$11H	JPN	Japan	34° 00.900 N	130° 56.100 E	PM54la	400	0110, 0510, 0910, 1310, 1710, 2110	XI	EE	active
518.0	DVS	Puerto Princesa	[I]	\$11I	PHL	Philippines	09° 44.000 N	121° 03.900 E	OJ99ir	320	0120, 0520, 0920, 1320, 1720, 2120	XI	EE	active
518.0	JGC	Yokohama	[I]	\$11I	JPN	Japan	35° 14.550 N	139° 55.280 E	PM95xf	400	0120, 0520, 0920, 1320, 1720, 2120	XI	EE	active
518.0	DZS	Manila	[J]	\$11J	PHL	Philippines	14° 33.330 N	121° 03.900 E	PK04mn	320	0130, 0530, 0930, 1330, 1730, 2130	XI	EE	active
518.0	JNL	Otaru	[J]	\$11J	JPN	Japan	43° 19.530 N	140° 26.830 E	QN03fh	400	0130, 0530, 0930, 1330, 1730, 2130	XI	EE	active
518.0	XVT	Da Nang	[K]	\$11K	VTN	Vietnam	16° 03.330 N	108° 09.420 E	OK46bb	400	0140, 0540, 0940, 1340, 1740, 2140	XI	EE	active
518.0	JNX	Kushiro	[K]	\$11K	JPN	Japan	42° 57.350 N	144° 23.370 E	QN22hw	400	0140, 0540, 0940, 1340, 1740, 2140	XI	EE	active
518.0	VRX	Hong Kong	[L]	\$11L	CHN	China	22° 12.570 N	114° 15.030 E	OL72df	250	0150, 0550, 0950, 1350, 1750, 2150	XI	EE	active
518.0	XSI	Sanya	[M]	\$11M	CHN	China	18° 17.490 N	109° 21.800 E	OK48qh	250	0200, 0600, 1000, 1400, 1800, 2200	XI	EE	active
518.0	XSQ	Guangzhou	[N]	\$11N	CHN	China	23° 09.560 N	113° 30.800 E	OL63sd	250	0210, 0610, 1010, 1410, 1810, 2210	XI	EE	active
518.0	XSL	Fuzhou	[O]	\$11O	CHN	China	25° 59.960 N	119° 26.500 E	OL95rx	250	0220, 0620, 1020, 1420, 1820, 2220	XI	EE	active
518.0	XSG	Shanghai	[Q]	\$11Q	CHN	China	31° 06.790 N	121° 32.790 E	PM01sc	250	0240, 0640, 1040, 1440, 1840, 2240	XI	EE	active
518.0	XSZ	Dalian	[R]	\$11R	CHN	China	38° 50.690 N	121° 31.090 E	PM08su	250	0250, 0650, 1050, 1450, 1850, 2250	XI	EE	active
518.0	9WH21	Sandakan	[S]	\$11S	MLA	Malaysia	05° 53.850 N	118° 00.240 E	OJ95av	350	0300, 0700, 1000, 1500, 1900, 2300	XI	EE	active
518.0	XSV	Tianjin	[S]	\$11S	CHN	China	39° 02.000 N	117° 26.000 E	OM89ra	250	0300, 0700, 1100, 1500, 1900, 2300	XI	EE	active

518.0	9WW21	Miri (Sarawak)	[T]	\$11T	MLA	Malaysia	04° 26.420 N	114° 01.550 E	OJ74ak	350	0310, 0710, 1110, 1510, 1910, 2310	XI	EE	active
518.0	9MG	Penang	[U]	\$11U	MLA	Malaysia	05° 25.580 N	100° 24.400 E	OJ05ek	350	0320, 0720, 1120, 1520, 1920, 2320	XI	EE	active
518.0	NRV	Guam	[V]	\$11V	GUM	Guam	13° 28.620 N	144° 50.100 E	QK23kl	100	0330, 0730, 1130, 1530, 1930, 2330	XI	EE	inactive
518.0	HL	Chukpyon	[V]	\$11V	KOR	South Korea	37° 03.450 N	129° 25.700 E	PM47rb	200	0330, 0730, 1130, 1530, 1930, 2330	XI	EE	active
518.0	HL	Pyonsan (Byeonsan)	[W]	\$11W	KOR	South Korea	35° 35.820 N	126° 29.180 E	PM35fo	200	0340, 0740, 1140, 1540, 1940, 2140	XI	KO	active
518.0	XVS	Ho Chi Minh	[X]	\$11X	VTN	Vietnam	10° 23.700 N	107° 08.640 E	OK30nj	400	0350, 0750, 1150, 1550, 1950, 2350	XI	EE	active

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518.0	NMC	CAMSPAC (San Francisco)	[C]	\$12C	USA	United States	37° 55.530 N	122° 43.870 W	CM87pw	350	0020, 0420, 0820, 1220, 1620, 2020	XII	EE	active
518.0	VAJ	Digby Island (Prince Rupert MCTS)	[D]	\$12D	CAN	Canada	54° 18.050 N	130° 24.170 W	CO44th	300	0030, 0430, 0830, 1230, 1630, 2030	XII	EE	active
518.0	XLK835	Amphitrite Pt (Prince Rupert MCTS)	[H]	\$12H	CAN	Canada	48° 55.280 N	125° 32.380 W	CN78fw	300	0110, 0510, 0910, 1310, 1710, 2110	XII	EE	active
518.0	NOJ	Kodiak (east of)	[J]	\$12J	ALS	Alaska	57° 46.630 N	152° 31.720 W	BO37rs	200	0130, 0530, 0930, 1330, 1730, 2130	XII	EE	active
518.0	HCY	Ayora	[L]	\$12L	GAL	Galapagos	00° 43.030 S	090° 19.630 W	EI49ug	250-400	0150, 0550, 0950, 1350, 1750, 2150	XII	EE	inactive
518.0	HCG	Guayaquil	[M]	\$12M	EQA	Equador	02° 17.000 S	079° 52.000 W	FI07br		0200, 0600, 1000, 1400, 1800, 2200	XII	EE	inactive
518.0	NMO	Honolulu, HI	[O]	\$12O	HWA	Hawaii	21° 26.100 N	158° 08.650 W	BL01wk	350	0220, 0620, 1020, 1420, 1820, 2220	XII	EE	active
518.0		Buenaventura	[O]	\$12O	CLM	Colombia	03° 54.180 N	077° 03.770 W	FJ13lv	300	0220, 0620, 1020, 1420, 1820, 2220	XII	EE	active
518.0	NMQ	Long Beach, CA (Cambria)	[Q]	\$12Q	USA	United States	35° 31.120 N	121° 03.600 W	CM95lm	350	0240, 0640, 1040, 1440, 1840, 2240	XII	EE	active
518.0	NMW	Astoria, OR	[W]	\$12W	USA	United States	46° 12.400 N	123° 57.380 W	CN86gae	216	0340, 0740, 1140, 1540, 1940, 2340	XII	EE	active
518.0	NOJ	Kodiak (west of)	[X]	\$12X	ALS	Alaska	57° 46.630 N	152° 31.720 W	BO37rs	200	0350, 0750, 1150, 1550, 1950, 2350	XII	EE	active

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518.0	UIK	Vladivostok	[A]	\$13A	RSE	Russia	43° 23.000 N	131° 54.000 E	PN53wj	280	0000, 0400, 0800, 1200, 1600, 2000	XIII	EE	active
518.0	UFO	Kholmok	[B]	\$13B	RSE	Russia	47° 02.000 N	142° 03.000 E	QN17aa	300	0010, 0410, 0810, 1210, 1610, 2010	XIII	EE	active
518.0	UBA2	Petropavlovsk-Kamchatskiy	[C]	\$13C	RSE	Russia	53° 15.000 N	158° 25.000 E	QO93fg	280	0020, 0420, 0820, 1220, 1620, 2020	XIII	EE	active
518.0	UIB	Magadan	[D]	\$13D	RSE	Russia	59° 41.000 N	150° 09.000 E	QO59bq	120	0030, 0430, 0830, 1230, 1630, 2030	XIII	EE	active
518.0	UCV2	Okhotsk	[G]	\$13G	RSE	Russia	59° 22.000 N	143° 12.000 E	QO19oi	300	0100, 0500, 0900, 1300, 1700, 2100	XIII	EE	active

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518.0	CBA	Antofagasta	[A]	\$15A	CHL	Chile	23° 29.470 S	070° 25.390 W	FG46sm	400	0000, 0400, 0800, 1200, 1600, 2000	XV	EE	active
518.0	CBV	Valparaíso (Playa Ancha)	[B]	\$15B	CHL	Chile	32° 48.370 S	071° 29.230 W	FF47ge	300	0010, 0410, 0810, 1210, 1610, 2010	XV	EE	active
518.0	CBT	Talcahuano	[C]	\$15C	CHL	Chile	36° 37.750 S	073° 07.010 W	FF33ki	400	0020, 0420, 0820, 1220, 1620, 2020	XV	EE	active
518.0	CBP	Puerto Montt	[D]	\$15D	CHL	Chile	41° 47.060 S	072° 52.750 W	FE38bf	400	0030, 0430, 0830, 1230, 1630, 2030	XV	EE	active
518.0	CBM	Punta Arenas (Magallenes)	[E]	\$15E	CHL	Chile	52° 55.700 S	070° 53.420 W	FD47nb	400	0040, 0440, 0840, 1240, 1640, 2040	XV	EE	active
518.0	CBY	Isla de Pascua	[F]	\$15F	PAQ	Easter Island	27° 08.850 S	109° 22.610 W	DG52hu	400	0050, 0450, 0850, 1250, 1650, 2050	XV	EE	inactive

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518.0	OBY2	Paita	[S]	\$16S	PRU	Peru	05° 06.000 S	081° 07.000 W	EI94kv	400	0300, 0700, 1100, 1500, 1900, 2300	XVI	EE/SS	active
518.0	OBC3	Callao	[U]	\$16U	PRU	Peru	12° 01.800 S	077° 07.800 W	FH17kx	400	0320, 0720, 1120, 1520, 1920, 2320	XVI	EE/SS	active
518.0	OBF4	Mollendo	[W]	\$16W	PRU	Peru	17° 01.900 S	072° 01.900 W	FH32xx	400	0340, 0740, 1140, 1540, 1940, 2340	XVI	EE/SS	active

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518.0	OYN	Upernavik (Disko Island)	[I]	\$18I	GRL	Greenland	72° 47.000 N	056° 09.000 W	GQ12ws	300	0120, 0520, 0920, 1320, 1720, 2120	XVIII	EE	active
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518.0	LGS	Svalbard Radio (#3)	[A]	\$19A	SVB	Svalbard	78° 03.420 N	013° 36.590 E	JQ68tb	450	0000, 0400, 0800, 1200, 1600, 2000	XIX	EE	active
518.0	LGP	Bodø Radio	[B]	\$19B	NOR	Norway	67° 16.150 N	014° 25.370 E	JP77fg	450	0010, 0410, 0810, 1210, 1610, 2010	XIX	EE	active
518.0	LGV	Vardø Radio (#3)	[C]	\$19C	NOR	Norway	70° 22.270 N	031° 05.830 E	KQ50ni	450	0020, 0420, 0820, 1220, 1620, 2020	XIX	EE	active



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518.0  UHS      Murmansk          [K]  $20K  RUS  Russia      68° 46.000 N  032° 58.000 E  KP68ls  300  0140, 0540, 0940, 1340, 1740, 2140  XX  EE  active
518.0  UGE      Arkhangelsk      [L]  $20L  RUS  Russia      64° 51.000 N  040° 17.000 E  LP04du  300  0150, 0550, 0950, 1350, 1750, 2150  XX  EE  active
518.0          Sabetta          [M]  $20M  RSE  Russia      71° 17.080 N  072° 01.770 E  MQ61ag  250  0200, 0600, 1000, 1400, 1800, 2200  XX  EE  active
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518.0  UAL      Tiksi (1st July to 30th October)  [Q]  $21Q  RSE  Russia      71° 38.000 N  128° 50.000 E  PQ41jp  300  0240, 0640, 1040, 1440, 1840, 2240  XXI  EE  active

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# SECTION FOUR:

# 4209.5 kHz NAVTEX SERVICE - NATIONAL LANGUAGES:

kHz:	Call:	Station Name:	Slot:	Rxx:	COU:	Country:	Latitude:	Longitude:	LOC:	Range nm:	Transmission Times - All in UTC:	Area:	Lang:	Status:
4209.5	TAH	Istanbul	[M]	\$03M	TUR	Turkey	41° 04.000 N	028° 57.000 E	KN41Ib	400	0200, 0600, 1000, 1400, 1800, 2200	III	TT	active
4209.5	SVH	Irákleio	[S]	\$03S	GRC	Greece	35° 19.330 N	025° 44.920 E	KM25uh	280-400	0300, 0700, 1100, 1500, 1900, 2300	III	GK	active
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4209.5	SUZ	Ismailia (al Ismailiyah)	[X]	\$09X	EGY	Egypt	30° 28.000 N	032° 22.000 E	KM60el	400	0750, 1150	IX	EE	active
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4209.5	XVN	Nha Trang	[C]	\$11C	VTN	Vietnam	12° 13.330 N	109° 10.830 E	OK42og	500	0020, 0420, 0820, 1220, 1620, 2020	XI	EE/VV	active
4209.5	XSQ	Guangzhou	[G]	\$11G	CHN	China	23° 09.560 N	113° 30.800 E	OL63sd	500	0100, 0500, 0900, 1300, 1700, 2100	XI	CC	active
4209.5	XVG	Hai Phong	[M]	\$11M	VTN	Vietnam	20° 50.920 N	106° 41.320 E	OL30it	400	0200, 0600, 1000, 1400, 1800, 2200	XI	EE/VV	active
4209.5	XSG	Shanghai	[Q]	\$11Q	CHN	China	31° 06.790 N	121° 32.790 E	PM01sc	500	0240, 0640, 1014, 1440, 1840, 2240	XI	CC	active
4209.5	XSV	Tianjin	[S]	\$11S	CHN	China	39° 02.390 N	117° 26.950 E	OM89ra	500	0300, 0700, 1100, 1500, 1900, 2300	XI	EE	active
4209.5	NRV	Guam	[V]	\$11V	GUM	Guam	13° 28.620 N	144° 50.100 E	QK23kl	230	0330, 0730, 1130, 1530, 1930, 2330	XI	EE	active
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4209.5	LGS	Svalbard (some tests here)	[G]	\$22G	SVB	Svalbard	78° 03.420 N	013° 36.590 E	JQ68tb	450	0100, 0500, 0900, 1300, 1700, 2100	XIX	NO	inactive

**NOTES:** Svalbard is now using HF NBDP to cover the Artic areas, so it is likely that their tests were just 'one-offs' to check the range on 4 MHz.

## SECTION FIVE: PLANNED OR PROPOSED:

**NOTE:** Quite often stations are shown as 'planned' or 'proposed' but are, never likely to appear. These new stations may be aspired to, but never have the budgets available to make them a reality. As we know though, new stations do still appear, though sadly not as frequently now since the budgets available to many administrations following the 2008 financial crash are now limited in many cases. The US and Ivory Coast services are shown as 'planned' in most official lists, but I have not been able to find any time scale for when these new stations are likely to come on air, or if they ever will do, especially as some folks in the US would like to get rid of their current NAVTEX services, never mind start building new ones. Anyway, the stations listed below are ones that have been suggested at various times and are included here 'just in case' they ever really do come to fruition:

### 490 kHz:

kHz:	Call:	Location:	Slot:	Rxx:	COU:	Country:	Latitude:	Longitude:	LOC:	Range nm:	Transmission Times - All in UTC:	Area:	Lang:	Status:
490.0	CNP	Casablanca	[M]	\$02M	MRC	Morocco	33° 36.000 N	007° 38.000 W	IM63eo	180	0200, 0600, 1000, 1400, 1800, 2200	II	EE	planned
490.0		Oron	[O]	\$02O	NIG	Nigeria	36° 48.080 N	008° 15.340 E	JJ44dt	250	0220, 0620, 1020, 1420, 1820, 2220	II	??	planned
490.0	3VX	Kelibia			TUN	Tunisia	04° 48.010 N	011° 02.290 E	JM56mt	250	0220, 0620, 1020, 1420, 1820, 2220	II	??	planned
490.0		Porto Novo (Tamil Nadu)	[E]	\$08E	IND	India	11° 30.200 N	079° 46.200 E	MK91vm	250	0040, 0440, 0840, 1240, 1640, 2040	VIII	??	planned
490.0		Vakalpudi (Andhra Pradesh)	[G]	\$08G	IND	India	17° 00.800 N	082° 17.100 E	NK17da	250	0100, 0500, 0900, 1300, 1700, 2100	VIII	??	planned
490.0		Balasore (Orissa)	[I]	\$08I	IND	India	21° 29.200 N	086° 55.000 E	NL31ll	250	0120, 0520, 0920, 1320, 1720, 2120	VIII	??	planned
490.0	VWP	Keating Point (Andaman)	[K]	\$08K	IND	India	09° 15.000 N	092° 46.000 E	NJ69jg	250	0140, 0540, 0940, 1340, 1740, 2140	VIII	??	planned
490.0		Veraval (Gujarat)	[P]	\$08P	IND	India	20° 54.600 N	070° 21.000 E	ML50ev	250	0230, 0630, 1030, 1430, 1830, 2230	VIII	??	planned
490.0	VUU	Vengrula (Maharashtra)	[R]	\$08R	IND	India	15° 51.200 N	073° 37.000 E	MK65tu	250	0250, 0650, 1050, 1450, 1850, 2250	VIII	??	planned
490.0		Muttam Point (Tamil Nadu)	[T]	\$08T	IND	India	08° 07.400 N	077° 19.100 E	MJ88pc	250	0310, 0710, 1110, 1510, 1910, 2310	VIII	??	planned
490.0	A4M	Wattayah/Muscat	[F]	\$09F	OMA	Oman	23° 36.770 N	058° 30.260 E	LL93go	270	0050, 0450, 0850, 1250, 1650, 2050	IX	AA	planned
490.0	A4A21	Salalah	[V]	\$09V	OMA	Oman	17° 01.000 N	054° 16.000 E	LK77da	400	0330, 0730, 1130, 1530, 1930, 2330	IX	AA	planned
490.0		Puerto Princesa	[I]	\$11I	PHL	Philippines	09° 44.000 N	118° 44.000 E	OJ99ir	320	0120, 0520, 0920, 1320, 1720, 2120	XI	??	planned

### 518 kHz:

kHz:	Call:	Location:	Slot:	Rxx:	COU:	Country:	Latitude:	Longitude:	LOC:	Range nm:	Transmission Times - All in UTC:	Area:	Lang:	Status:
518.0		Oron	[H]	\$02H	NIG	Nigeria	04° 48.010 N	008° 15.340 E	JJ44dt	250	0110, 0510, 0910, 1310, 1710, 2110	II	EE	planned
518.0	CNP	Casablanca	[M]	\$02M	MRC	Morocco	33° 36.000 N	007° 38.000 W	IM63eo	180	0200, 0600, 1000, 1400, 1800, 2200	II	EE	planned
518.0	5OW	Lagos	[S]	\$02S	NIG	Nigeria	06° 23.990 N	003° 22.910 E	JJ16pk	200-260	0300, 0700, 1100, 1500, 1900, 2300	II	EE	planned
518.0	TJC	Douala			CME	Cameroon						II	EE	planned
518.0	5TA	Nouadhibou			MTN	Mauritania						II	EE	planned
518.0		Bonny			NIG	Nigeria						II	EE	planned
518.0	TUA	Abidjan Radio			CTI	Ivory Coast	05° 19.000 N	004° 01.000 W	KJ85xh			II	EE	planned
518.0		Surt	[S]	\$03S	LBY	Libya	31° 13.730 N	016° 17.480 E	JM81df	320	0300, 0700, 1100, 1500, 1900, 2300	III	EE	planned

518.0	XFU	Veracruz			MEX	Mexico	19° 09.000 N	096° 07.000 W	EK19wd	250			IV	EE	planned
518.0	XFC	Cozumel			MEX	Mexico	20° 16.000 N	086° 44.000 W	EL60pg	250			IV	EE	planned
518.0	YVG	La Guaira			VEN	Venezuela							IV		planned
518.0	PWZ	Rio de Janeiro			BRA	Brazil							V		planned
518.0	CWM	Montivideo			URG	Uruguay	34° 52.000 S	056° 19.000 W	GF15ud				VI	EE	planned
518.0	CWM23	Colonia			URG	Uruguay							VI	EE	planned
518.0	CWM30	Punta del Este			URG	Uruguay	34° 58.000 S	054° 57.000 W	GF25ma				VI	EE	planned
518.0	CWM31	Salto			URG	Uruguay							VI	EE	planned
518.0	CWM32	Laguna del Sauce			URG	Uruguay							VI	EE	planned
518.0	5HA	Dar es Salaam			TZA	Tanzania	06° 45.000 S	039° 20.000 E	KI93qg				VIII	EE	planned
518.0	A4A21	Salalah	[D]	\$09D	OMA	Oman	17° 01.900 N	054° 15.670 E	LK77da	400	0030, 0430, 0830, 1230, 1630, 2030		IX	EE	planned
518.0		Davao	[R]	\$11R	PHL	Philippines	07° 07.300 N	125° 39.420 E	PJ27tc	320	0250, 0650, 1040, 1440, 1840, 2240		XI	EE	planned
518.0	XFK	La Paz			MEX	Mexico	24° 08.000 N	110° 17.000 W	DL44ud	250			XII	EE	planned
518.0	XFM	Manzanillo			MEX	Mexico	19° 05.000 N	104° 18.000 W	DK79ub	250			XII	EE	planned
518.0	XFQ	Salina Cruz			MEX	Mexico	16° 09.000 N	095° 12.000 W	EK26jd	250			XII	EE	planned
518.0	NOJ	Kodiak	[X]	\$17X	ALS	Alaska	57° 46.000 N	152° 34.000 W	BO37rs	200	0340, 0740, 1140, 1540, 1940, 2340		XVII	EE	planned
518.0		Mys Sterlegova	[N]	\$20N	RSE	Russia	75° 24.000 N	088° 46.000 E	NQ45jj	300	0210, 0610, 1010, 1410, 1810, 2210		XX	EE	planned
518.0		Ostrova Andreja	[O]	\$20O	RSE	Russia	76° 44.000 N	110° 27.000 E	OQ56fr	300	0220, 0620, 1020, 1420, 1820, 2220		XX	EE	planned
518.0		Ostrov Bol'soj Begiev	[P]	\$20P	RSE	Russia	74° 32.000 N	112° 02.000 E	OQ64am	300	0230, 0630, 1030, 1430, 1830, 2230		XX	EE	planned
518.0	UBB8	Anderma			RSE	Russia	69° 44.000 N	061° 41.000 E	MP09ur	300			XX	EE	planned
518.0	UCT2	Beringovskiy	[E]	\$21E	RSE	Russia	63° 03.000 N	179° 20.000 E	RP93qb	250	0040, 0440, 0840, 1240, 1640, 2040		XXI	EE	planned
518.0	UCZ	Provideniya	[F]	\$21F	RSE	Russia	64° 40.000 N	173° 10.000 E	RP64nq	250	0050, 0450, 0850, 1250, 1650, 2050		XXI	EE	planned

## 4209.5 kHz:

kHz:	Call:	Station Name:	Slot:	Rxx:	COU:	Country:	Latitude:	Longitude:	LOC:	Range nm:	Transmission Times - All in UTC:	Area:	Lang:	Status:
4209.5		Abidjan Radio			CTI	Ivory Coast	05° 19.000 N	004° 01.000 W	IJ75xh			II	??	planned
4209.5		Veracruz			MEX	Mexico	19° 09.000 N	096° 07' W	EK19wd	250		IV	SS	planned
4209.5		Cozumel			MEX	Mexico	20° 16.000 N	086° 44' W	EL60pg	250		IV	SS	planned
4209.5		New Orleans	[G]	\$04G	USA	United States				250	0100, 0500, 0900, 1300, 1700, 2100	IV	EE	planned
4209.5		La Paz			MEX	Mexico	24° 08.000 N	110° 17' W	DL44ud	250		XII	SS	planned
4209.5		Manzanillo			MEX	Mexico	19° 05.000 N	104° 18' W	DK79ub	250		XII	SS	planned
4209.5		Salina Cruz			MEX	Mexico	16° 09.000 N	095° 12' W	EK265jd	250		XII	SS	planned

## SECTION SIX:

## KEY TO ABBREVIATIONS USED:

<b>Language:</b>	<b>ABB:</b>
Arabic	AA
Azerbaijani	AZ
Chinese	CC
Creole	CR
Dutch	DD
English	EE
French	FF
Georgian	GE
German	GG
Greek	GK
Hindi	HIN
Icelandic	IS
Japanese	JJ
Italian	IT
Korean	KO
Norwegian	NO
Persian	PE
Portuguese	PP
Romanian	RO
Russian	RR
Serbo-Croat	SC
Spanish	SS
Turkish	TT
Unknown	??
Urdu	UR
Vietnamese	VV

<b>Abbreviation:</b>	<b>Meaning:</b>
24H	= 24 Hour
bd	= Baud
COU	= NDB List Country Code is used
F1B	= SITOR Mode B
FEC	= Forward Error Correction
HF	= High Frequency
Lang.	= Language
MET	= Meteorological
MSI	= Maritime Safety Information
n/a	= Not Applicable
NBDP	= Narrow Band Direct Printing
Nm	= Nautical Miles
QSL	= QSL – Q Code for Verification of Reception
RTTY	= Radio TeleType
SITOR	= Simplex Teletype Over Radio
SNR	= Signal to Noise Ratio
WWNWS	= World Wide Navigational Warning Service

## SECTION SEVEN: CREDITS & SOURCES:

**My thanks to all the following for their contributions, which are always greatly appreciated:**

Admiralty Weekly Notices to Mariners

Admiralty List of Radio Signals, Volume 5

**Alan @ hfmonitor.co.uk**

**Bob Blodge**, Isle of Wight

**Brian Keyte**, G3SIA, England

**Canadian Coast Guard** Radio Aids to Marine Navigation <https://www.ccg-gcc.gc.ca/index-eng.html>

**Cormac Gebruers**, Ireland

**Chuck Rippel**, USA

**David Atkins**, Scotland

**David Onley**, The Netherlands/Australia

**Dick Palmer**, USA

**Dirk Claessens**, Belgium

**Douglas Pingel**, England

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**Guido Schotmans**, Belgium

**Hans-Jürgen Karius**, Germany

**Henrik Thil Nielsen**, Denmark

**Holger Lucas**, Germany

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**Jarda, OK2STO**, Czech Republic

**Karl-Erik Stridh**, Sweden

**Lennart Deimert**, Sweden

**Lezsek, SP7VCY**, Poland

**Lionel Roithmeir**, Guernsey

**Marc Goldman**, USA

**Marc Vissers**, Belgium

**Marco Sgarzoni**, Italy

**Mark Moulding, KU7Z**, USA

**Martin Waller**, England

**Mats**, Sweden

**Mauro Giroletti**, Italy

**Mauricio Molano Sánchez**, Spain

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**Patrick Robic**, Austria

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**Richard Reese**

**Steve (Steve's Den)**, England

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**Tjaerand S. Bauge**, Norway (R.I.P.)

**Tobias Taufer (T2)**, Germany

US Coast Guard Navcen

**Vincent Lecler**, France

WMO website

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