

## Non-Directional Beacons Heard at Quoddy House, Lubec, Maine November-December 2017

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Following are my logs of aeronautical navigation beacons in the longwave (198 to 530 kHz) band using the KiwiSDR at this location. Quoddy House is an excellent location to receive Trans-Atlantic NDBs, rivalling locations in the Canadian Maritime provinces used by other DXers in recent years. These beacons operate with modest RF power levels ranging from 2,000 to a mere 25 watts, and sometimes even less, using non-resonant, capacitance-loaded antennas, yet still manage to be heard hundreds, if not thousands of miles away.

Most NDBs employ modulated CW systems to continuously send their two- or three-character IDs. They are modulated with nominal tones of 400 or 1020 Hz. Most Canadian NDBs use 400 Hz while the great majority in the United States use 1020 Hz. Europe is a mix. Only a few beacons logged here do not use this system, including SAL on 274 kHz in Cape Verde (*right*). They are A1A beacons, meaning that the carrier itself is keyed as a traditional CW signal.



The best way to log NDBs is to use very narrow CW filters on the order of 20 Hz. This allows you to separate competing signals that are closely spaced in “cluster” frequencies, or are very near strong carriers. The IDs or “idents” of modulated (MCW) beacons are found away from their carrier frequencies based on the tones used. A beacon on 370 kHz using a tone of 1020 Hz will produce CW idents at 368.98 kHz (LSB) and 371.02 kHz (USB). A beacon on the same frequency using 400 Hz will appear at 369.6 kHz and 370.4 kHz. Note that some beacons, particularly in Canada, suppress their lower sidebands (although some still produce LSBs that are noticeably weaker than their USBs).



*(OZN 372 kHz - Prins Christian Sund/Ikerassassuaq, Greenland - NDB List)*

The best source of up-to-date information about which NDBs are being heard, and where, is the RNA/REU Database: [http://www.classaxe.com/dx/ndb/rww/signal\\_list](http://www.classaxe.com/dx/ndb/rww/signal_list). This is continuously updated with the logs of DXers who participate in the NDB List reflector: <http://www.ndblist.info/>. At that site, there is an excellent introduction to NDB DXing prepared by NDB List founder and administrator Alan Gale G4TMV: <http://www.ndblist.info/beacons/beacons.pdf>

**Location color key: North America | Greenland | Europe | Africa | Caribbean | South America**

YYYYMMDD	UTC	kHz	ID	LSB	USB	Location
20171119	1723	198	DIW	1040	1040	Dixon, NC USA
20171117	2244	201	RI	---	400	Riviere-du-Loup, QC Canada
20171117	2245	201	YIF	---	400	St. Augustin, QC Canada
20171118	0221	204	YFY	---	400	Iqaluit, NU Canada
20171205	1228	205	YRQ	---	400	Trois-Rivieres, QC Canada
20171117	2246	206	QI	400	400	Yarmouth, NS Canada
20171117	2247	207	CL	---	400	Charlo, NB Canada
20181126	0517	208	YSK	---	400	Sanikiluaq, QC Canada
20171117	2248	209	MT	---	400	Chibougamau, QC Canada
20171124	1426	209	MJ	1040	---	Lawrence Corner, NH USA
20171117	2249	212	SJ	400	400	St. John, NB Canada
20171126	0521	214	K8	---	390	Nemiscau, QC Canada
20171117	2250	216	ME	---	400	Matane, QC Canada
20171118	0219	216	CLB	1020	1020	Carolina Beach, NC USA
20171119	1740	219	W7	400	---	Du Rocher-Pierce, QC Canada
20171117	2253	220	BX	---	400	Blanc-Sablon, QC Canada
20171128	0512	221	RP	---	400	Rice Lake, WI USA
20171128	0515	221	HM	---	370	Hamilton, ON Canada
20171226	2349	221	DYO	1020	1020	Rutland, VT USA
20171117	2254	224	QM	---	400	Moncton, NB Canada
20171126	0513	224	BH	1050	---	Birmingham, AL USA
20171123	1116	227	SQ	1040	---	Connersville, IN USA
<b>20171128</b>	<b>0518</b>	<b>227</b>	<b>CG</b>	<b>---</b>	<b>410</b>	<b>Castlegar, BC Canada</b>
20171128	0519	227	YAC	---	390	Cat Lake, ON Canada
20171130	0606	227	FZ	1030	---	Saint Louis, MO USA
20171117	2255	229	PD	---	400	Port Hawkesbury, NS Canada
20171118	0217	229	1M	1060	---	Hibernia Platform, (off Newfoundland)
20171117	2256	230	AC	---	400	Pleasant Lake, NS Canada
20171117	2256	230	QB	---	400	Quebec, QC Canada
20171126	0509	230	AQE	---	1030	Greenville, NC USA
20171117	2257	232	GP	---	400	Gaspe, QC Canada
20171117	2258	233	UM	---	400	Churchill Falls, NL Canada
20171118	0214	235	9H	---	400	La Grande Trois, QC Canada
20171118	0214	235	CN	---	400	Cochrane, ON Canada
20171119	2345	237	7C	---	380	Fogo, NL Canada
20171123	1122	237	EZF	---	1010	Fredericksburg, VA USA
20171118	0211	239	5Q	400	---	Fontanges, QC Canada
20171130	0612	240	SJ	1040	---	Springfield, IL USA
20171130	0612	240	LE	1040	1040	Auburn, ME USA
20171118	0104	241	YGT	---	400	Igloolik, NU Canada
20171119	1756	242	3E	1030	---	Galaxy Platform, (off Sable Is.) (1)
20171224	0436	242	GGE	1050	---	Georgetown, SC USA
20171117	2259	243	YVB	---	400	Bonaventure, QC Canada
20171117	2259	244	DG	---	400	Chute-des-Passes, QC Canada

20171126	0504	245	JYL	---	1020	Sylvania, GA USA
20171126	0506	245	UDG	---	1020	Darlington, SC USA
20171128	0455	245	FS	---	1030	Sioux Falls, SD USA
20171130	0615	245	ALP	1050	---	Elmira, NY USA
20171210	0605	245	YZE	---	400	Gore Bay, ON Canada
20171217	0555	245	LUA	---	1030	Luray, VA USA
20171210	0421	246	G8	400	400	Hebron Platform (off NL), Canada (28)
20171210	0604	247	YLH	---	410	Lansdowne House, ON Canada
20171117	2300	248	UL	---	400	Montreal, QC Canada
20171126	0533	248	FRT	1040	1030	Spartanburg, SC USA
20171117	2301	250	UAC	---	400	Poste Montagnais, QC Canada
20171119	1804	250	YMH	---	400	Mary's Harbour, NL Canada
20171123	1124	251	SKR	1040	1010	Beford, MA
20171119	1806	252	3S	1020	1020	Thebaud Platform, (off Nova Scotia)
20171117	2302	254	5B	---	400	Summerside, PE Canada
20171123	1126	254	LLW	1050	---	Elizabeth City, NC USA
20171117	2303	257	YR	1050	990	Goose Bay, NL Canada
20171117	2304	260	UFX	---	400	St. Felix-de-Valois, QC Canada
20171117	2304	260	YAT	---	400	Attawapiskat, ON Canada
<b>20171126</b>	<b>0608</b>	<b>260</b>	<b>TOY</b>	<b>1030</b>	<b>---</b>	<b>Tongoy, Chile</b>
20171126	0608	260	MTH	1050	---	Marathon Key, FL USA
20171129	2344	260	EPM	1030	---	Eastport, ME USA
20171118	0208	261	2H	---	400	Lebel-sur-Quevillon, QC Canada
20171123	1047	261	OA	---	1020	Jacksonville, NC USA
20171221	0203	261	ELQ	---	1020	Emporia, VA USA
20171117	2306	263	QY	---	400	Sydney, NS Canada
20171123	1044	263	JN	1020	---	Smithfield, NC USA
20171128	0349	263	GR	---	1020	Grand Rapids, MI USA
20171129	2348	263	LQL	---	1010	Willoughby, OH USA
20171221	0200	263	DYQ	1030	---	Greenville, TN USA
20171128	0346	264	ZPB	---	390	Sachigo Lake, ON Canada
20171117	2307	266	YZX	1020	1020	Greenwood, NS Canada
<b>20171214</b>	<b>0241</b>	<b>268</b>	<b>UBY</b>	<b>---</b>	<b>830</b>	<b>Bayamo, Cuba (31)</b>
20171119	1821	269	3C	1020	1020	Venture Platform, (off Newfoundland)
20171128	0438	269	UDE	---	390	Delta, MB Canada
20171117	2307	270	ZNF	---	400	St. John's, NL Canada
20101123	1053	270	PYG	---	1020	Pageland, SC USA
20171123	1050	271	HXO	1020	---	Huntsboro, NC USA
20171117	2308	272	ZMR	---	400	Montreal, QC Canada
20171125	2101	272	PFH	1020	1020	Hudson, NY USA
20171128	0440	272	GP	1050	---	Grand Rapids, MN USA
20171130	0425	272	UCP	---	1000	New Castle, PA USA
<b>20171120</b>	<b>0013</b>	<b>274</b>	<b>SAL</b>	<b>0</b>	<b>0</b>	<b>Sal Island, Cape Verde</b>
20171210	0555	275	YPM	---	360	Pikangikum, ON Canada
20171117	2309	275	R1	---	400	Thetford Mines, QC Canada
20171129	2353	275	BBN	1050	---	Babylon, NY USA
20171224	0351	275	RU	1020	---	Salisbury, NC USA
20171117	2309	276	YHR	---	400	Chevery, QC Canada
20171130	0422	276	IS	1080	---	Kinston, NC USA
20171118	0058	278	PQ	1050	---	Presque Isle, ME USA
20171118	0132	278	ADG	1020	---	Adrian, MI USA
20171224	0426	278	NM	---	400	Matagami, QC Canada
<b>20171118</b>	<b>0059</b>	<b>279</b>	<b>SI</b>	<b>400</b>	<b>400</b>	<b>Simiutaq, Greenland (30)</b>
20171125	2105	279	CQX	---	1020	Chatham, MA USA
20171117	2310	280	QX	---	400	Gander, NL Canada
20171123	1056	280	MQW	1010	1020	McRae, GA USA
20171117	2312	281	CA	---	400	Cartwright, NL Canada

20171130	0418	281	DMO	---	980	Sedalia, MO USA
20171128	0418	284	RT	---	370	Rankin Inlet, NU Canada
20171128	0419	284	QD	---	400	The Pas, MB, Canada
20171117	2313	289	YLQ	---	400	La Tuque, QC Canada
20171125	2108	291	9Q	---	370	Amos, QC Canada
20171117	2314	304	ZQM	---	400	Riverview, NB Canada
20171117	2315	305	YQ	---	400	Churchill, MB Canada
<b>20171123</b>	<b>0338</b>	<b>309</b>	<b>GPI</b>	<b>410</b>	<b>400</b>	<b>Guapi, Colombia</b>
20171117	2316	317	ZMX	---	400	Montreal, QC Canada
20171210	0538	317	CBE	---	1030	Cumberland, MD USA
20171217	0529	320	TY	---	1020	Tyler, TX USA
20171117	2317	323	KR	---	400	Schefferville, QC Canada
<b>20171120</b>	<b>0030</b>	<b>323</b>	<b>TAB</b>	<b>400</b>	<b>---</b>	<b>Tobago, Trinidad &amp; Tobago</b>
20171117	2318	326	FC	400	400	Fredericton, NB Canada
20171126	0450	326	PKZ	1040	---	Pensacola, FL USA
20171126	0451	326	ZEF	1020	---	Elkin, NC USA
20171202	0355	326	MA	1050	---	Midland, TX USA
20171221	0215	326	BKT	1040	---	Blackstone, VA USA
<b>20171120</b>	<b>0037</b>	<b>327</b>	<b>POR</b>	<b>---</b>	<b>1020</b>	<b>Porto, Portugal</b>
20171118	0109	328	LC	1020	---	Laconia, NH USA
20171130	2343	328	BZJ	1050	---	Indiantown Gap, PA USA
20171117	2319	329	OU	---	400	Ste-Foy, QC Canada
20171130	0242	329	AAA	---	1030	Lincoln, IL USA
20171130	0242	329	CH	---	1030	Charleston, SC USA
20171222	0406	329	RVN	---	1030	Rogersville, TN USA
<b>20171120</b>	<b>0043</b>	<b>331</b>	<b>SC</b>	<b>1050</b>	<b>---</b>	<b>Santa Cruz de Flores, Azores</b>
20171130	0239	331	JV	1040	---	Jeffersonville, IN USA
20171117	2320	332	YFM	400	400	La Grande Quatre, QC Canada
<b>20171117</b>	<b>2321</b>	<b>332</b>	<b>FAR</b>	<b>---</b>	<b>1020</b>	<b>Faro, Portugal</b>
20171118	0158	332	FIS	1050	---	Key West, FL USA
20171124	0347	332	BE	---	1040	Bedford, MA USA
20171130	0238	332	PH	1040	---	Port Huron, MI USA
20171210	0530	332	DC	1050	---	Washington, DC USA (29)
20171214	0228	332	BG	1050	---	Binghampton, NY USA
20171117	2325	334	YSH	---	400	Smiths Falls/Montague, ON Canada
20171117	2326	335	YLD	---	400	Chapleau, ON Canada
20171126	0305	335	SW	1030	---	Newburgh, NY USA
20171210	0527	335	LUK	1040	---	Cincinnati, OH USA
20171117	2326	336	BV	---	400	Champlain, QC Canada
20171124	0352	336	MA	---	1010	Cadillac, MI USA (4)
<b>20171201</b>	<b>0325</b>	<b>337</b>	<b>MY</b>	<b>---</b>	<b>370</b>	<b>Mygennaes, Faroe Islands</b>
<b>20171117</b>	<b>2328</b>	<b>338</b>	<b>PST</b>	<b>1020</b>	<b>1020</b>	<b>Porto Santo, Madeira</b>
20171117	2331	338	ZEM	---	400	Eastmain, QC Canada
20171124	0356	338	DE	1020	---	Detroit, MI
20171126	0439	338	POB	1060	---	Fayetteville, NC USA
20171130	0008	338	UMP	---	1030	Indianapolis, IN USA
20171217	0515	338	HR	1050	---	Harlingen, TX USA
20171117	2333	339	YFT	---	400	Makkovik, NL Canada
20171117	2336	340	YY	400	400	Mont-Joli, QC Canada
20171117	2337	340	ZJT	---	400	Stephenville, NL Canada
20171217	0509	340	GN	1040	---	Lexington, KY USA
20171117	2335	341	GF	1020	1020	Aylesford/Greenwood, NS Canada
20171117	2338	341	YYU	---	400	Kapuskasing, ON Canada
20171217	0506	341	CCJ	---	1050	Springfield, OH USA
20171117	2341	343	ZBM	---	400	Bromont, QC Canada
20171117	2342	344	YGV	---	400	Havre-St-Pierre, QC Canada
20171126	0312	344	IWJ	1030	---	Blakely, GA USA

20171129	0234	344	UNU	1050	---	Juneau, WI USA
<b>20171120</b>	<b>0248</b>	<b>345</b>	<b>CSD</b>	<b>400</b>	<b>400</b>	<b>Daouarat, Morocco</b>
20171120	0104	346	1D	---	430	Charlottetown, NL Canada
20171126	0315	346	YXL	---	400	Sioux Lookout, ON Canada
20171127	0212	346	VU	---	1020	Albemarle, NC USA
<b>20171130</b>	<b>0533</b>	<b>347</b>	<b>NQY</b>	<b>400</b>	<b>400</b>	<b>Newquay, England</b>
20171217	0501	347	AIK	---	1020	Aiken, SC USA
20171129	0227	349	APG	1060	---	Aberdeen Proving Grounds, MD USA
20171117	2343	350	DF	400	400	Deer Lake, NL Canada
20171123	0320	350	D7	1050	---	Kincardine, ON Canada
20171125	0333	350	F2	410	---	Searose FPSO, Grand Banks, NL Canada
20171221	0232	350	CP	1060	---	Cahokia, IL USA
20171117	2348	351	YKQ	---	400	Waskaganish, QC Canada
<b>20171122</b>	<b>0238</b>	<b>351</b>	<b>PD</b>	<b>---</b>	<b>1040</b>	<b>Ponta Delgada, Azores (2)</b>
20171123	1102	351	MSQ	---	1020	Culpeper, VA USA
20171123	0322	353	QG	---	380	Windsor, ON Canada
20171127	2336	353	IN	1040	---	International Falls, MN USA
20171129	0355	353	LI	1040	---	Little Rock, AR USA
20171214	0212	353	VV	---	1020	Greensboro, GA USA
20171125	0338	355	YWP	---	400	Webequie, ON Canada
20171117	2349	356	YBG	1020	1020	Bagotville, QC Canada
20171117	2350	356	AY	400	400	St. Anthony, NL Canada
20171126	0321	356	AR	---	1020	Providence, RI USA
20171127	0207	356	HEU	1010	---	Schenectady, NY USA
20171129	0349	356	IUL	---	1030	La Porte, IN USA
20171210	0513	356	PI	---	1030	Peoria, IL USA
<b>20171223</b>	<b>0256</b>	<b>356.5</b>	<b>OU</b>	<b>0</b>	<b>0</b>	<b>Ouargla, Algeria</b>
20171117	2350	358	NL	---	400	Signal Hill/St. John's, NL Canada
20171125	0340	358	OG	1050	1020	Ogdensburg, NY USA
<b>20171127</b>	<b>0204</b>	<b>359</b>	<b>NA</b>	<b>400</b>	<b>---</b>	<b>Narsarsuaq, Greenland</b>
20171129	0346	359	GYG	1060	---	Grayling, MI USA
20171210	0508	359	MS	1030	---	Monticello, NY USA
20171117	2352	360	PN	400	400	Port-Menier, QC Canada
<b>20171120</b>	<b>0258</b>	<b>360</b>	<b>HT</b>	<b>1020</b>	<b>1020</b>	<b>Horta/Faial Island, Azores</b>
<b>20171201</b>	<b>0510</b>	<b>360</b>	<b>JAC</b>	<b>---</b>	<b>1030</b>	<b>Jacare-a-Canga (PA), Brazil</b>
<b>20171201</b>	<b>0336</b>	<b>361</b>	<b>CFN</b>	<b>400</b>	<b>400</b>	<b>Carrickfin/Donegal, Ireland (8)</b>
20171217	0448	361	HB	1050	---	Burlington, NC USA
20171117	2353	362	SC	---	330	Sherbrooke, QC Canada
20171117	2353	362	SB	---	400	Sudbury, ON Canada
<b>20171126</b>	<b>0426</b>	<b>362</b>	<b>GND</b>	<b>1030</b>	<b>---</b>	<b>Port Salines, Grenada</b>
20171129	0342	362	AK	1060	---	Akron, OH USA
20171129	0342	362	JWE	1060	---	Oxford, CT USA
20171130	0441	362	MT	1060	---	Manitowoc, WI USA
20171130	2243	362	FM	1030	---	Falmouth, MA USA
20171120	0122	363	1F	410	400	Bathurst, NB Canada
20171123	0326	363	RNB	1050	---	Millville, NJ USA
20171117	2355	364	ZHZ	---	400	Halifax, NS Canada
20171129	0337	365	AA	1050	---	Fargo, ND USA
20171129	0339	365	TV	1040	---	Traverse City, MI USA
<b>20171123</b>	<b>0343</b>	<b>365</b>	<b>PAL</b>	<b>1030</b>	<b>---</b>	<b>Palma, Ecuador</b>
20171130	0518	365	HQG	1080	---	Hugoton, KS USA
20171202	0433	365	JN	400	---	Muncie, IN USA
20171117	2356	366	YMW	---	400	Maniwaki, QC Canada
20171120	0300	366	AU	1050	---	Auburn, ME USA
<b>20171123</b>	<b>0012</b>	<b>366.5</b>	<b>NRA</b>	<b>400</b>	<b>400</b>	<b>M/V Noble Regina Allen (3)</b>
20171126	0424	367	FVX	---	1030	Farmville, VA USA
<b>20171130</b>	<b>0220</b>	<b>367</b>	<b>JV</b>	<b>---</b>	<b>400</b>	<b>Ilulissat/Jakobshavn, Greenland (7)</b>

20171118	0119	368	ZYZ	---	400	Toronto, ON Canada
20171120	0128	369	ZDX	1020	1020	St. John, Antigua
20171202	0310	369	GL	---	400	Nantes/Atlantique, France (14)
20171128	0342	370	YBV	---	370	Berens River, MB Canada
20171118	0001	371	STR	---	1020	Sintra, Portugal
20171125	0356	371	GW	---	400	Kuujuuarapik, QC Canada
20171128	0337	371	RYV	1030	---	Watertown, WI USA
20171128	0341	371	AZ	1050	---	Vicksburg/Kalamazoo, MI USA
20171118	0003	372	OZN	400	400	Prins Christian Sund, Greenland
20171126	0332	372	CQD	1060	---	Erie, PA USA
20171201	0407	372	YCO	---	420	Coppermine/Kugluktuk, NU Canada
20171217	0442	372	MF	1050	---	Mansfield, OH USA
20171118	0002	373	2Q	400	400	Mont-Laurier, QC Canada
20171204	2238	373	YXK	---	380	Rimouski, QC Canada
20171123	0026	375	7B	---	400	St. Thomas, ON Canada
20171123	0222	375	PJS	---	1020	Newport News, VA USA
20171130	0508	375	VM	---	1050	Vestmannaeyar, Iceland
20171120	0134	376	BJA	410	400	Beja, Portugal
20171120	0135	376	HIE	1020	---	Valverde/El Hierro, Canary Islands
20171126	0336	376	LC	1040	1020	Columbus, OH USA
20171126	0559	376	BHC	---	1020	Baxley, GA USA
20171130	0506	376	YAG	---	380	Fort Frances, ON Canada
20181118	0014	377	YRR	---	400	Greely/Ottawa, ON Canada
20171118	0015	378	RJ	400	400	Roberval, QC Canada
20171118	0016	378	HO	---	400	Hopedale, NL Canada
20171118	0019	379	YPQ	---	400	Peterborough, ON Canada
20171123	0227	379	BRA	1040	1040	Asheville, NC USA
20171130	0511	379	DL	1060	---	Duluth, MN USA
20171210	0454	379	OW	---	1030	Owatonna, MN USA
20171120	0141	380	FIL	1020	1020	Horta/Faial Island, Azores
20171130	0503	380	BBD	---	1020	Brady, TX USA
20171202	0137	380	RQ	---	400	Quimper, France (10)
20171202	0258	380	CBL	410	---	Campbelltown, Scotland
20171214	0153	380	UMB	---	1010	Milledgeville, GA USA
20171225	0145	380	VNV	---	1020	Vilanova i la Geltrú, Spain
20171217	0432	381	MNI	---	1020	Manning, SC USA
20171124	0325	381.5	SJX	---	1020	Beaver Island, MI USA
20171120	0142	382	LAR	1020	1020	Arruda, Portugal
20171120	0143	382	BT	420	380	Burlington, VT USA
20171118	0021	382	YPL	---	400	Pickle Lake, ON Canada
20171124	0327	382	7P	---	1020	Iroquois Falls, ON Canada
20171118	0124	382	SF	400	400	Kangerlussuaq, Greenland
20171128	0349	382	SP	1050	---	Springfield, IL USA
20171217	0429	382	IRS	---	1020	Sturgis, MI USA
20171221	0249	382	XU	---	390	London, ON CAN
20171225	0235	382	SBG	1020	---	Salzburg/Oberndorf, Austria (35)
20171202	0152	383	ALD	---	410	Alderney, Guernsey, Channel Is. (11)
20171118	0023	384	F8	400	400	Victoriaville, QC Canada
20171123	0236	384	ADX	1040	---	Andraitx/Mallorca, Balearic Islands
20171201	0415	384	SLG	410	---	Sligo, Ireland
20171118	0147	385	PTP	400	---	Pointe à Pitre, Guadeloupe
20171126	0342	385	EMR	1060	---	Augusta, GA USA
20171120	0148	386	SP	400	400	St. Pierre, St Pierre et Miquelon
20171118	0025	386	GMA	1020	---	Whitefield, NH USA
20171118	0026	387	6E	400	400	Grand Manan, NB Canada
20171210	0448	387	CAV	---	1020	Clarion, IA USA
20171118	0028	388	H7	---	400	Manitowaning, ON Canada

20171217	0425	388	GLY	---	1030	Golden Valley, MO USA
20171217	0425	388	RNW	---	1020	Chocowinity, NC USA
<b>20171120</b>	<b>0149</b>	<b>389</b>	<b>CP</b>	<b>1020</b>	<b>1020</b>	<b>Caparica, Portugal</b>
<b>20171202</b>	<b>0343</b>	<b>389</b>	<b>PX</b>	<b>---</b>	<b>400</b>	<b>Perigueax/Basillac, France (15)</b>
20171118	0030	390	JT	---	400	Stephenville, NL Canada
20171118	0031	391	3B	---	400	Brockville, ON Canada
<b>20171118</b>	<b>0031</b>	<b>391</b>	<b>DDP</b>	<b>600</b>	<b>600</b>	<b>Dorado/San Juan, Puerto Rico</b>
20171118	0033	391	OO	---	400	Oshawa, ON Canada
20171214	0147	391	FIQ	---	1040	Morganton, NC USA
20171118	0033	392	ML	400	400	Charlevoix, QC Canada
<b>20171118</b>	<b>0036</b>	<b>392</b>	<b>KF</b>	<b>---</b>	<b>1010</b>	<b>Keflavik, Iceland</b>
20171126	0554	393	FGP	1070	---	Fort Bragg, NC USA
<b>20171120</b>	<b>0155</b>	<b>394</b>	<b>IZA</b>	<b>1020</b>	<b>---</b>	<b>Ibiza, Balearic Islands (Spain)</b>
20171130	0329	394	AI	1060	---	Anderson, IN USA
20171217	0420	394	DTE	---	1020	Dayton, TN USA
<b>20171123</b>	<b>0242</b>	<b>395</b>	<b>FOY</b>	<b>400</b>	<b>400</b>	<b>Foynes/Shannon, Ireland</b>
20171218	0336	395	CWV	1030	---	Claxton, GA USA
20171218	0337	395	GBR	1040	1020	Great Barrington, MA USA
20171227	0334	395	SL	1020	---	Saranac Lake, NY USA
20171120	0159	396	NEL	1060	---	Lakehurst, NJ USA
20171118	0038	396	JC	---	400	Rigolet, NL Canada
20171118	0039	397	ZST	---	400	St. John, NB Canada
20171124	0333	397	OW	1060	---	Norwood, MA USA
<b>20171120</b>	<b>0201</b>	<b>397</b>	<b>FV</b>	<b>1060</b>	<b>1040</b>	<b>Fuerteventura, Canary Islands</b>
20171217	0415	397	CIR	---	1020	Cairo, IL USA
<b>20171202</b>	<b>0204</b>	<b>398</b>	<b>MT</b>	<b>400</b>	<b>400</b>	<b>St. Nazaire/Montoir, France (12)</b>
<b>20171130</b>	<b>0218</b>	<b>399</b>	<b>UP</b>	<b>---</b>	<b>320</b>	<b>Upernavik, Greenland</b>
20171201	0353	399	ZHD	---	400	Dryden, ON Canada
<b>20171202</b>	<b>0224</b>	<b>399</b>	<b>NGY</b>	<b>---</b>	<b>400</b>	<b>New Galloway/Prestwick, Scotland (13)</b>
20171118	0127	400	PTD	1020	---	Potsdam, NY USA
20171125	0247	400	CI	1040	---	Ste. St. Marie, MI USA
20171125	0248	400	NHK	1060	---	Patuxent River NAS, MD USA
20171126	0349	400	FO	---	1020	Westhampton Beach, NY USA
<b>20171201</b>	<b>0520</b>	<b>400</b>	<b>QQ</b>	<b>---</b>	<b>400</b>	<b>Comox, BC Canada</b>
<b>20171203</b>	<b>0137</b>	<b>400</b>	<b>AG</b>	<b>410</b>	<b>410</b>	<b>Agen/La Garenne, France</b>
20171118	0039	401	Y8	---	400	Drummondville, QC Canada
<b>20171201</b>	<b>0429</b>	<b>401</b>	<b>BBA</b>	<b>410</b>	<b>---</b>	<b>Benbecula, Scotland (9)</b>
20171120	0207	402	MQ	400	400	Miquelon, St. Pierre et Miquelon
<b>20171224</b>	<b>0411</b>	<b>402</b>	<b>UIA</b>	<b>1670</b>	<b>---</b>	<b>Camaguey, Cuba</b>
20171126	0352	403	ZTO	---	390	Brampton/Toronto, ON Canada
<b>20171120</b>	<b>0208</b>	<b>404</b>	<b>LRD</b>	<b>1030</b>	<b>---</b>	<b>Lérida, Spain</b>
20171118	0041	404	YSL	400	400	St. Leonard, NB Canada
20171125	0250	404	CKI	---	1020	Kingstree, SC USA
20171224	0142	404	ZR	---	400	Sarnia, ON Canada
<b>20171130</b>	<b>0552</b>	<b>404</b>	<b>MOG</b>	<b>1050</b>	<b>---</b>	<b>Montague, CA USA</b>
<b>20171125</b>	<b>0257</b>	<b>405</b>	<b>5</b>	<b>---</b>	<b>1200</b>	<b>UNIDENTIFIED (5)</b>
<b>20171217</b>	<b>0357</b>	<b>405</b>	<b>CON</b>	<b>---</b>	<b>1020</b>	<b>Concepción, Paraguay</b>
<b>20171203</b>	<b>0230</b>	<b>406</b>	<b>TW</b>	<b>400</b>	<b>400</b>	<b>Toulouse/Blagnac, France (19)</b>
20171118	0042	407	ZHU	---	400	Montreal, QC Canada
20171124	0338	407	FR	1050	---	Farmingdale, NY USA
20171125	0253	407	IL	1040	1040	Wilmington, OH USA
20171126	0548	407	BZ	1020	---	Statesboro, GA USA
20171128	0402	407	AQ	1060	1030	Appleton, WI USA
20171130	0340	407	OX	---	1050	Ocean City, MD USA
20171124	2347	408	SN	---	390	St. Catharines, ON Canada
20171118	0152	409	YTA	---	400	Pembroke, ON Canada
<b>20171123</b>	<b>0038</b>	<b>410</b>	<b>C</b>	<b>1040</b>	<b>1020</b>	<b>La Coruña, Spain</b>

20171123	0255	410	JU	---	1010	West Jefferson, NC USA
20171125	0308	410	SO	---	1020	Marquette, MI USA
20171126	0359	410	BA	1060	1030	Columbus, IN USA
20171130	0343	410	EGQ	---	1030	Emmetsburg, IA USA
20171123	0256	412	CTZ	1020	---	Clinton, NC USA
<b>20171224</b>	<b>0212</b>	<b>412</b>	<b>GRA</b>	<b>1040</b>	<b>---</b>	<b>Granada, Spain (33)</b>
20171130	0347	413	YHD	---	420	Dryden, ON Canada
20171118	0043	414	3U	---	400	Gatineau, QC Canada
20171124	0343	414	FDW	1030	---	Winnsboro, SC USA
20171126	0403	414	AZE	1030	---	Hazlehurst, GA USA
20171126	0543	414	MSD	1030	---	Mansfield, LA USA
<b>20171123</b>	<b>0340</b>	<b>415</b>	<b>SLS</b>	<b>---</b>	<b>1020</b>	<b>Salinas, Ecuador</b>
<b>20171120</b>	<b>0219</b>	<b>415</b>	<b>CBC</b>	<b>---</b>	<b>400</b>	<b>Cayman Brac, Cayman Islands</b>
20171126	0540	417	SLP	1020	---	Shelby, NC USA
20171214	0134	417	HQT	---	1060	Coats, NC USA
<b>20171221</b>	<b>0316</b>	<b>417</b>	<b>CVT</b>	<b>400</b>	<b>400</b>	<b>Madrid/Cuatro Vientos, Spain</b>
20171202	0442	419	RYS	---	1020	Grosse Ile, MI USA
20171123	0043	420	CFY	---	1010	Lake City, SC USA
<b>20171127</b>	<b>0131</b>	<b>420</b>	<b>PI</b>	<b>400</b>	<b>400</b>	<b>Pico Island/Madalena, Azores</b>
20171128	0408	420	FQ	---	1020	Fairmont, MN USA
<b>20171221</b>	<b>0307</b>	<b>420</b>	<b>SPP</b>	<b>1050</b>	<b>1040</b>	<b>Sevilla/San Pablo, Spain</b>
<b>20171120</b>	<b>0225</b>	<b>421</b>	<b>GE</b>	<b>1020</b>	<b>1020</b>	<b>Getafe/Madrid, Spain</b>
20171130	0352	421	VLY	1060	---	McKinney, TX USA
<b>20171224</b>	<b>0310</b>	<b>422</b>	<b>PAM</b>	<b>---</b>	<b>1040</b>	<b>Pamplona, Spain (34)</b>
20171125	0317	423	PCW	1020	---	Port Clinton, OH USA
<b>20171205</b>	<b>0427</b>	<b>423</b>	<b>ZO</b>	<b>---</b>	<b>920</b>	<b>Niš/Žitorada, Serbia (25)</b>
<b>20171202</b>	<b>0358</b>	<b>424</b>	<b>PHG</b>	<b>---</b>	<b>400</b>	<b>Phalsbourg/Bourscheid, France</b>
<b>20171224</b>	<b>0154</b>	<b>424</b>	<b>RUS</b>	<b>1020</b>	<b>---</b>	<b>Reus, Spain (32)</b>
<b>20171127</b>	<b>0220</b>	<b>425</b>	<b>EVR</b>	<b>400</b>	<b>---</b>	<b>Évora, Portugal</b>
20171129	0255	426	IZS	---	1010	Montezuma, GA USA
<b>20171202</b>	<b>0453</b>	<b>426</b>	<b>GBG</b>	<b>---</b>	<b>1020</b>	<b>Gleichenberg/Graz, Austria (16)</b>
<b>20171202</b>	<b>0507</b>	<b>426</b>	<b>CB</b>	<b>---</b>	<b>400</b>	<b>Coimbra, Portugal</b>
20171210	0442	426	FTP	---	1020	Fort Payne, AL USA
<b>20171202</b>	<b>0229</b>	<b>427</b>	<b>RY</b>	<b>---</b>	<b>400</b>	<b>Royan/Medis, France</b>
<b>20171203</b>	<b>0123</b>	<b>428</b>	<b>GC</b>	<b>400</b>	<b>400</b>	<b>Santa Cruz de Graciosa, Azores (18)</b>
<b>20171202</b>	<b>0242</b>	<b>428</b>	<b>TGM</b>	<b>1030</b>	<b>---</b>	<b>Târgu Mureş/Vidrasău, Romania</b>
20171130	0401	428	POH	---	1020	Pocahontas, IA USA
<b>20171203</b>	<b>0244</b>	<b>428</b>	<b>BST</b>	<b>0</b>	<b>0</b>	<b>Lanvéoc/Poulmic, France (20)</b>
<b>20171202</b>	<b>0501</b>	<b>429</b>	<b>LOS</b>	<b>---</b>	<b>1020</b>	<b>Lošinj, Croatia (17)</b>
<b>20171205</b>	<b>0358</b>	<b>429</b>	<b>KDR</b>	<b>---</b>	<b>1020</b>	<b>Khadra, Libya</b>
20171127	0120	432	IZN	---	1020	Lincolnton, NC USA
<b>20171205</b>	<b>0413</b>	<b>432</b>	<b>IZD</b>	<b>1070</b>	<b>---</b>	<b>Ohrid/Izdeglavlje, Macedonia</b>
<b>20171209</b>	<b>0122</b>	<b>432</b>	<b>HMB</b>	<b>0</b>	<b>0</b>	<b>Hammam Bou Hadjar/Oran, Algeria (27)</b>
20171127	0112	433	JER	1040	---	Jérez, Spain
20171127	0115	433	VON	1070	1000	Vigo, Spain
20171203	0258	444	NRD	---	400	Inowrocław, Poland
20171205	0406	460	AS	980	980	UNIDENTIFIED (Europe)
20171203	0412	468	FTZ	1030	---	Fritzlar, Germany (21)
20171205	0351	468	VTN	1020	---	Kraljevo/Vitanovac, Serbia (24)
20171203	0253	474	BIA	1030	---	Rzeszów/Jasionka, Poland
20171205	0341	470	UZ	970	1050	Užice/Ponikve, Serbia (23)
<b>20171205</b>	<b>0452</b>	<b>470</b>	<b>BK</b>	<b>1030</b>	<b>---</b>	<b>UNIDENTIFIED (26)</b>
<b>20171205</b>	<b>0345</b>	<b>470</b>	<b>WF</b>	<b>---</b>	<b>400</b>	<b>Wafa, Libya</b>
20171205	0329	485	IA	1040	---	Indija, Serbia (22)
20171205	0313	490	WAK	1040	1040	Vakarel, Bulgaria
20171127	2236	476	NA	0	0	Manchester, TN USA (6)
20171129	0247	512	HMY	1080	990	Lexington, OK USA



20171129	0245	515	OS	1060	---	Columbus, OH USA
20171130	0405	515	PN	1030	---	Ponca City, OK USA
20171118	0054	516	YWA	1020	1020	Petawawa, ON Canada
20171118	0055	520	F9	---	400	Miramichi/Chatham, NB Canada
<b>20171127</b>	<b>0246</b>	<b>520</b>	<b>BHZ</b>	<b>1030</b>	<b>---</b>	<b>Belo Horizonte, Brazil</b>
20171130	0408	521	GM	1080	---	Greenville, SC USA
20171130	0410	523	JJH	1060	---	Johnstown, NY USA



(GE 421 kHz - Getafe (Madrid), Spain - courtesy NDB List/Juan Pedro Esteve Garcia)

Notes:

- (1) Other sources say 3E-242 is the Triumph Platform.
- (2) PD-351 has odd keying that sounds like "AND."
- (3) NRA-366.5 is *M/V Noble Regina Allen*, a drill ship near Halifax, NS.
- (4) MA-336 has bad keying that sounds like "MET."
- (5) "5"-405 is a longstanding unidentified signal in North America.
- (6) NA-476 is a controversial ham beacon run by the owner of WWRB shortwave.
- (7) JV-367 has a very slow ID.
- (8) CFN-361 DA7ID; 50 watts, per REU.
- (9) BBA-401 is 50 watts, per REU.
- (10) RQ-380 is 25 watts, per REU.
- (11) ALD-383 is 50 watts per REU.
- (12) MT-398 is 50 watts per REU.
- (13) NGY-399 is 80 watts per REU.
- (14) GL-369 is 50 watts per REU.
- (15) PX-389 is 25 watts per REU.
- (16) GBG-426 is 100 watts per REU.
- (17) LOS-429 is 40 watts per REU.

- (18) GC-428 was +/-1020 Hz when first heard 27 November 2017.
- (19) TW-406 is 15 watts per REU.
- (20) BST-428 is A1A, long DAID; 25 watts per REU.
- (21) FTZ-468 DAID; 25 watts per REU.
- (22) IA-485 DAID; 60 watts per REU.
- (23) UZ-470 DAID.
- (24) VTN-468 DAID; 50 watts per REU.
- (25) ZO-423 carrier is 422.92 kHz.
- (26) BK-470 may be Boufarik, Algeria, per REU.
- (27) HMB-432 DAID; 25 watts per REU.
- (28) G8-246 no DAID; does not operate continuously.
- (29) DC-332 transmitter is in Oxon Hill, Maryland.
- (30) SI-279 sounds like "OM."
- (31) UBY-268 frequency highly variable; near-continuous ID.
- (32) RUS-424 is 200 watts per REU.
- (33) GRA-412 is 25 watts per REU.
- (34) PAM-422 is 100 watts per REU.
- (35) SBG-382 is 50 watts per REU.

Local time (EST) is UTC -5 hours; offsets are estimates based on nominal carrier frequency.

Andy Robins

Receiver: KiwiSDR near Lubec, Maine, USA (FN64mu) (44.8586N 66.9836W)  
Antennas: 160' D-Kaz at 45° and a 1,000' unterminated BOG at 75°/255°