

## Stations logged from Newfoundland by Jean Burnell in 2019

**2 to 11 November, from Cappahayden NL (with John Fisher, Jim Renfrew and Chuck Hutton):** receivers: four Microtelecom Perseus;  
antennas: 2-11 Nov 330 m North (12°), 3-10 Nov 350 m South (158°), 4-10 Nov DKAZ Northwest (320°), 5-11 Nov Wellbrook  
Communications ALA100LN 20 m circumference loop (205°)

freq	country	station	location	UTC date	from	peak SINPO
530	Argentina	Somos Radio	Buenos Aires	2019.11.08	0657	24343
531	Faroe Islands	Kringvarp Føroya	Akraberg	2019.11.07	2157	32442
531	Israel	KAN Reshet Moreshet	Yavne / Tel Aviv	2019.11.03	2100	32432
531	Romania	Antena Satelor	Urziceni	2019.11.09	1900	22432
531	Saudi Arabia	SBC Al-Quran al-Karim	Bisha	2019.11.03	1929	22322
540	Hungary	Kossuth Radio	Solt	2019.11.04	2030	53553
549	Ireland	Spirit Radio	Carrickroe / Monaghan	2019.11.08	1859	33443
550	Brazil	ZYJ331 Rádio Banda B	Piraquara / Curitiba PR	2019.11.09	0658	33333
550	Puerto Rico	WPAB	Ponce	2019.11.09	0300	22342
550	USA	KTRS	St. Louis MO	2019.11.08	0558	33443
550	USA	KFYR	Bismark ND	2019.11.08	0959	33333
550	USA	KTSA	San Antonio TX	2019.11.08	1000	22321
550	Venezuela	YVKE Mundial	Caracas	2019.11.08	0953	33343
558	India	All India Radio	Mumbai	2019.11.08	2353	33332
558	Romania	Radio România Actualități	Târgu Jiu	2019.11.09	0257	22331
558	Slovenia	Muravidéki Magyar Rádió	Nemčavci / Murska Sobota	2019.11.03	2200	33432
560	Guyana	Voice of Guyana	Vreed en Hoop / Georgetown	2019.11.08	0359	23332
560	USA	WQAM	Miami FL	2019.11.05	0800	22321
560	USA	KMON	Great Falls MT	2019.11.07	1031	23332
560	USA	WFIL	Philadelphia PA	2019.11.08	1000	22322
576	India	All India Radio	Kalavoor / Alappuzha	2019.11.09	0018	22332
576	Oman	Radio Sultanate of Oman	Haima	2019.11.03	1929	22321
580	Brazil	ZYJ465 Rádio Relójo	Rio de Janeiro RJ	2019.11.09	0659	33333
580.058	Ecuador	HCFC2 Unión Radio	Guayaquil	2019.11.10	0931	13331
585	India	All India Radio	Nagpur	2019.11.09	0018	22332
585	Pakistan	Radio Pakistan	Faqirabad	2019.11.08	1900	32332
594	India	All India Radio GOS	Chanparai / Chinsurah	2019.11.09	0028	24332
595.897	Morocco	SNRT Al Idaâ Al-Watania	Oujda	2019.11.08	0300	24332
600	Brazil	ZYH920 Rádio Mirante	São Luís MA	2019.11.07	2157	34333

600	Canada	CKAT	North Bay ON	2019.11.10	1057	24332
600	Nicaragua	YNLD Radio Ya	Managua	2019.11.08	0958	33322
600	USA	WBOB	Jacksonville FL	2019.11.08	0559	23332
600	USA	KSJB	Jamestown ND	2019.11.08	0959	33343
600	USA	WMT	Cedar Rapids IA	2019.11.10	0900	23322
603	Oman	Radio Sultanate of Oman	Bidiyah	2019.11.03	1928	33433
603	Romania	Radio Oltenia-Craiova	Drobeta-Turnu Severin	2019.11.04	2100	33423
603	Romania	Antena Satelor	București	2019.11.09	1859	33432
603	Romania	Radio România Actualități	Botoșani & Oradea	2019.11.09	1900	33433
603	UK / England	Smooth Radio	Littlebourne / Canterbury	2019.11.04	2000	22421
610	Brazil	ZYH321 Super Rádio Boa Vontade	Iranduba / Manaus AM	2019.11.06	0857	33332
610	Brazil	ZYL268 Rádio Itatiaia	Belo Horizonte MG	2019.11.07	2159	34343
610	Colombia	HJKL RCN La Cariñosa	Bogotá	2019.11.05	0759	33333
610	Paraguay	ZP30 La Voz del Chaco Paraguayo	Filadelfia	2019.11.06	0900	23321
610	USA	WTEL	Philadelphia PA	2019.11.08	0600	23323
612	India	All India Radio	Bengaluru	2019.11.04	0023	23332
630	Romania	Antena Satelor	Voinești	2019.11.09	1859	34433
630	Romania	Radio Timișoara	Orășoara / Timișoara	2019.11.08	1900	33433
648	India	All India Radio	Indore	2019.11.04	0024	24332
648	Slovenia	Radio Murski Val	Nemčavci / Murska Sobota	2019.11.03	2130	33433
648	UK / England	Radio Caroline	Orfordness	2019.11.03	2131	23322
650	Greenland	Kalaallit Nunaata Radioa	Qeqertarsuaq	2019.11.06	0857	32332
657	Iran	IRIB Radio Gilan	Kiashahr	2019.11.04	2029	33443
657	Israel	KAN Reshet Bet	Yavne / Tel Aviv	2019.11.09	2300	33332
660	Cuba	Radio Progreso	Jovellanos	2019.11.08	0259	32432
666	India	All India Radio	New Delhi	2019.11.04	0023	143X1
666	Iran	IRIB Radio Fars	synchros	2019.11.03	2030	34444
666	UK / England	BBC Radio York	Fulford	2019.11.04	1957	32442
670	Brazil	ZYJ248 Rádio Cidade	Curitiba PR	2019.11.05	2157	34322
670	Brazil	ZYJ921Rádio Cultura de Sergipe	Aracajú SE	2019.11.09	0000	34343
675	Netherlands	Radio Calypso	Oostwold	2019.11.08	1829	23343
675	Qatar	Qatar Media Corp.	Al-Arish / Doha	2019.11.09	0020	34353
675	Saudi Arabia	SBC Radio Riyadh	Afif & Abha	2019.11.03	2103	22331
680	Brazil	ZYI793 Rádio Grande Rio AM	Petrolina PE	2019.11.08	0801	23333
680	USA	WPTF	Raleigh NC	2019.11.08	0600	22322
680	USA	KNBR	San Francisco CA	2019.11.10	0600	224X2

684	Iran	IRIB Radio Mashhad	Mashhad	2019.11.08	1859	33443
684	Russia	Radiostansia Radonezh	Saint Petersburg	2019.11.08	1859	22432
700	Argentina	LV3 Radio Córdoba	Córdoba	2019.11.10	0459	34343
700	Brazil	ZYK686 Nossa Rádio	São Paulo SP	2019.11.08	0559	33343
700	Colombia	HJCX W Radio	Cali	2019.11.07	0801	22432
700	Ecuador	HCRS2 Radio Sucre	Guayaquil	2019.11.06	0859	33333
702	Algeria	Radio Algèrienne	Laghouat	2019.11.09	2300	23343
702	Oman	BBC	A'Seela	2019.11.08	1900	13331
711	Pakistan	Radio Pakistan	Dera Ismail Khan	2019.11.05	0044	23322
720	Argentina	LV10 LV Diez	Mendoza	2019.11.08	0800	22332
720	Cyprus	BBC	Limassol	2019.11.08	1900	223X1
729	Greece	ERA First Programme	Athens	2019.11.03	2100	32432
729	South Africa	Radio Pulpit	Klipheuwel / Cape Town	2019.11.09	2300	23321
730	Canada	CKDM	Dauphin MB	2019.11.06	0901	33333
738	India	All India Radio	Hyderabad	2019.11.09	0018	22321
747	India	All India Radio	Lucknow	2019.11.09	0023	21331
750	Brazil	ZYL213 Rádio América	Belo Horizonte MG	2019.11.08	0100	32432
756	UK / England	BBC Radio 4	Redruth	2019.11.09	2300	24323
765.000	India	All India Radio	Dharwad	2019.11.09	0028	24332
764.977	Iran	IRIB World Service	Chabahar	2019.11.03	2029	43433
770	Cuba	CMCW Radio Artemisa	La Salud	2019.11.07	1100	12321
770	Uruguay	CX12 Radio Oriental	Montevideo	2019.11.08	0257	33333
774.000	Japan	JOUB NHK 2	Akita	2019.11.11	0959	24332
780	Argentina	LV8 Radio Libertador	Mendoza	2019.11.08	0858	34333
780	Paraguay	ZP70 Radio Primero de Marzo	Asunción	2019.11.06	0101	34343
780	Venezuela	YVMN Radio Coro	Coro	2019.11.05	0759	33433
790	Argentina	LR6 Radio Mitre	Buenos Aires	2019.11.08	0302	33323
790	USA	WTNY	Watertown NY	2019.11.06	0900	32322
792	Czechia	Radio Dechovka	Hradec Králové	2019.11.03	2131	22332
792	India	All India Radio	Pune	2019.11.09	0018	23322
792	Spain	SER Radio Sevilla	Sevilla	2019.11.03	2058	43443
792	UK / Northern Ireland	BBC Radio Foyle	Londonderry	2019.11.04	2000	23332
800	Brazil	ZYJ457 Rádio MEC	Rio de Janeiro RJ	2019.11.09	0659	32432
800	Canada	CJAD	Montréal QC	2019.11.07	2258	31442
810	Brazil	ZYH589 Verdinha	Fortaleza CE	2019.11.05	2159	33333
810	Canada	CKJS	Winnipeg MB	2019.11.07	1100	33333

819	Iran	IRIB Radio Mazandaran	Sari	2019.11.03	2029	33343
820	Argentina	LRA8 Radio Nacional	Formosa	2019.11.08	0559	33343
827.986	Iran	IRIB Radio Khorasan-e Jonubi	Tabas	2019.11.03	2030	33433
828.000	Russia	Radiogazeta Slovo	Saint Petersburg	2019.11.08	1900	44434
828	South Africa	Magic 828	Klipheuwel / Cape Town	2019.11.09	2259	24333
828	UK / England	BBC Asian Network	Sedgley / Wolverhampton	2019.11.04	2000	33343
830	Brazil	ZYL244 Rádio Cultura	Belo Horizonte MG	2019.11.08	2159	23322
830	México	XEITE Ondas de Paz <i>(note 1)</i>	México DF	2019.11.08	0900	24332
837	India	All India Radio	Namburu / Vijayawada	2019.11.09	0018	13321
837	UK / England	BBC Asian Network	Freemen's Common / Leicester	2019.11.03	2100	33433
840	Argentina	LT12 Radio General Madariaga	Paso de los Libres	2019.11.08	0602	22322
840	Argentina	LV9 Radio Salta	Salta	2019.11.08	0759	23332
840	Canada	CFCW	Camrose AB	2019.11.10	1059	22342
840	Cuba	CMKC Radio Revolución	Palma Soriano	2019.11.08	1002	23332
840	Panama	HOL80 Radio Nacional (tent)	Howard	2019.11.08	0954	32322
846	India	All India Radio	Ahmedabad	2019.11.09	0018	33333
846	Iran	IRIB Radio Tabriz	Mianeh	2019.11.03	2030	23332
846	UAE	Umm al-Quwain Quran Prog (tent)	Umm al-Quwain	2019.11.03	2100	33333
850	USA	WKNR	Cleveland OH	2019.11.10	1100	223X1
855	UK / England	BBC Radio Lancashire	Riley Green / Preston	2019.11.04	2000	32422
860	Brazil	ZYH592 Rádio Cidade	Maracanaú CE	2019.11.10	0500	44444
864	Iran	IRIB Radio Kermanshah	Qasr-e Shirin	2019.11.03	2030	22322
870	Argentina	LRA1 Radio Nacional	Buenos Aires	2019.11.08	0600	34343
873	Hungary	Nemzetiségi Adások	Lakihegy & Pécs	2019.11.08	1859	33443
873	Iran	IRIB Radio Khorasan-e Shomali	Bojnurd	2019.11.03	2030	33342
873	Moldova	Radio Moldova Actualități	Chișinău	2019.11.08	1900	22432
873	Saudi Arabia	SBC Al-Quran al-Karim	Ar Rass	2019.11.03	1929	22332
873	UK / Northern Ireland	BBC Radio Ulster	Enniskillen	2019.11.04	2000	32442
880	Argentina	LR4 La 9-90	Buenos Aires	2019.11.08	0800	223X2
880	Canada	CKLQ	Brandon MB	2019.11.09	1059	32342
880	USA	WZAB	Sweetwater FL	2019.11.08	1000	22332
882	Sri Lanka	Trans-World Radio	Puttalam	2019.11.09	0000	32322
890	Argentina	Radio Libre	San Justo / Buenos Aires	2019.11.08	0559	23322
891	Iran	IRIB Radio Dena	Yasuj & Deh Dasht	2019.11.09	1859	24433
891	Netherlands	HOTRADIOhits	Huissen	2019.11.04	1959	32432
899.999	Argentina	LT7 Radio Provincia de Corrientes	Corrientes	2019.11.08	0830	22432

900	Barbados	Caribbean Broadcasting Corp.	Waterford / Bridgetown	2019.11.08	0859	33333
900	Brazil	ZYI455 Rádio Arco-Íris	Araputanga MT	2019.11.05	2200	23333
900	Brazil	ZYI533 Rádio Liberal	Belém PA	2019.11.06	0100	33343
900	Brazil	ZYK664 Rádio Jovem Pan	São José do Rio Preto SP	2019.11.08	0800	23332
900	Canada	CKBI	Prince Albert SK	2019.11.06	0901	33323
899.949	Colombia	HJEY La Voz de Cali	Cali	2019.11.08	0857	23332
900	Cuba	Radio Progreso	Urbano Noris / San Germán	2019.11.06	0858	23332
900	India	All India Radio	Kadapa	2019.11.09	0023	22321
900	USA	WURD	Philadelphia PA	2019.11.10	0901	23333
909	Romania	Radio România Actualităţi	Timișoara	2019.11.09	2300	32442
910	USA	WDOR	Sturgeon Bay WI	2019.11.07	1130	24332
910	USA	WLAT	New Britain CT	2019.11.09	0957	33333
910	USA	WTOS	Bangor ME	2019.11.10	0600	23332
910	USA	KCJB	Minot ND	2019.11.10	0857	33323
918	Egypt	ERTU Al-Bernameg al-Aam	Bawiti	2019.11.04	2100	22322
918	India	All India Radio	Suratgarh	2019.11.09	0023	44333
920	Brazil	ZYH519Rádio Novo Tempo	Salvador BA	2019.11.05	2159	33333
920	Paraguay	ZP1 Radio Nacional del Paraguay	Asunción	2019.11.05	0759	34333
927	India	All India Radio	Visakhapatnam	2019.11.09	0023	33322
927	Iran	IRIB Radio Lorestan	Dorud	2019.11.03	2030	22321
930	Brazil	ZYK500 Rádio Santa Fé	Santa Fé do Sul SP	2019.11.05	2158	32332
930	Brazil	ZYH646 Rádio Metropolitana	Caucaia / Fortaleza CE	2019.11.07	2300	33433
936	India	All India Radio	Tiruchirapalli	2019.11.09	0014	22321
935.993	Morocco	SNRT Al Idaâ Al-Watania	Agadir	2019.11.08	0300	34343
940	Argentina	LRH200 Radio Chajarí	Chajarí	2019.11.10	0459	22331
940	Canada	CJGX	Yorkton SK	2019.11.10	0900	22332
940	Mexico	XEQ Ke Buena	México	2019.11.06	0900	33343
940	USA	WKGM	Smithfield VA	2019.11.07	2200	23321
945	Iran	IRIB Radio Kurdistan	Dehgolan	2019.11.09	0030	23333
950	Argentina	LR3 CNN Radio	Buenos Aires	2019.11.06	0059	44344
950	USA	WKDN	Philadelphia PA	2019.11.05	0758	33333
950	USA	WIBX	Utica NY	2019.11.07	0759	22432
954	India	All India Radio	Najibabad	2019.11.09	0023	43323
954	Turkey	TRT Trabzon Radio	Trabzon	2019.11.08	0257	33333
960.002	Brazil	ZYH241 Rádio Difusora	Maceió AL	2019.11.05	2158	33333
960	Uruguay	CW96 Radio Yi	Durazno	2019.11.08	0559	23332

960	USA	WELI	New Haven CT	2019.11.06	0900	23322
963	UK / England	Sunrise Radio	London	2019.11.04	2057	22322
963	UK / England	Asian Sound Radio	Haslingden	2019.11.04	2102	23322
970	Colombia	HJVK Armonías del Caquetá	Florencia	2019.11.09	0700	23322
970	Mexico	XERFR Radio Fórmula	México DF	2019.11.09	0959	22322
970.009	Paraguay	ZP9 Universo 970	Asunción	2019.11.08	0300	23332
972.000	Korea, South	HLCA KBS Hanminjok Bangsong	Dangjin	2019.11.04	2057	33333
972	Tajikistan	VOA Radio Aap Ki Dunyaa	Orzu	2019.11.03	2058	43333
981	India	All India Radio	Raipur	2019.11.10	0024	133X1
981	Ireland	Radio Star Country	Emyvale	2019.11.09	1859	23432
990	Cuba	CMAM Radio Guamá	Pinar del Río	2019.11.09	1000	22333
990	India	All India Radio	Jammu	2019.11.09	0023	32332
990	UK / England	BBC Radio Devon	Exeter	2019.11.03	2029	32332
990	UK / Wales	BBC Radio 5 Live	Tywyn	2019.11.03	2159	32332
999	Moldova / Transnistria	Trans-World Radio	Grigoriopol / Maiac	2019.11.04	1959	44444
1000	Brazil	ZYI698 Rádio Oeste da Paraíba	Cajazeiras PB	2019.11.05	0801	22321
999.995	Paraguay	ZP36 Radio Mil AM	San Antonio / Asunción	2019.11.08	0828	24333
1000	USA	KOMO	Seattle WA	2019.11.10	0859	24333
1008	Iran	IRIB Radio Semnan	Semnan	2019.11.08	1900	33323
1008	Pakistan	Radio Pakistan	Hyderabad	2019.11.08	1900	33333
1010	Brazil	ZYH625 Rádio CBN	Fortaleza CE	2019.11.08	0758	33323
1017	India	All India Radio	Chennai	2019.11.09	0021	24322
1016.975	Iran	IRIB Radio Iran	Bandar Abbas	2019.11.03	2029	33333
1017	UK / England	Absolute Classic Rock	Shrewsbury	2019.11.04	1957	32432
1026	Iran	IRIB Radio Tabriz	Azarshahr	2019.11.03	1959	32442
1026	UK / Northern Ireland	Downtown Radio	Knockbracken / Belfast	2019.11.03	1959	32442
1030	Argentina	LS10 Radio Del Plata	Buenos Aires	2019.11.08	0600	43333
1030	Brazil	ZYI777 Rádio Olinda	Olinda PE	2019.11.08	0600	33322
1029.998	Brazil	ZYI441 Rádio Itaí	Rondonópolis MT	2019.11.08	0800	33333
1035	Estonia	Radio Eli	Tartu	2019.11.03	2059	44444
1035.000	Pakistan	Radio Pakistan	Multan	2019.11.05	0043	33333
1040	Canada	CKST	Delta / Vancouver BC	2019.11.09	0659	32322
1040	Cuba	CMCL Radio Mayabeque	Güines	2019.11.08	0059	23322
1040	USA	WURN	Miami FL	2019.11.08	0059	22322
1040	USA	WCHR	Flemington NJ	2019.11.08	1000	33322
1050	Brazil	ZYI203 Rádio Capixaba	Vitória ES	2019.11.05	2158	33333

1053	Iran	IRIB Radio Iran	Khorramabad	2019.11.03	2029	22422
1060	Brazil	ZYL278 Rádio 880	Belo Horizonte MG	2019.11.05	2157	34323
1060.009	Brazil	ZYK765 Rádio Universitária de Garça	Garça SP	2019.11.10	0501	33323
1060	México	XEEP Radio Educación	México DF	2019.11.10	0600	22331
1060	Puerto Rico	WCGB	Juana Diaz	2019.11.10	0900	23322
1070	Colombia	HJCG Radio Santa Fé	Bogotá	2019.11.10	0600	23433
1070	Cuba	CMKS Radio Trinchera Antimperialista	Guantánamo	2019.11.09	1000	24343
1070	USA	KNX	Los Angeles CA	2019.11.10	0900	23342
1071	India	All India Radio GOS	Rajkot	2019.11.09	0023	54444
1080	Brazil	ZYI784 Rádio Jornal	Caruaru PE	2019.11.09	0700	33323
1080	Iran	IRIB World Service	Bandar-e Mahshahr	2019.11.04	2030	223X1
1080	Israel	KAN Reshet Dalet	Yavne / Tel Aviv	2019.11.03	2030	32432
1080	Paraguay	ZP25 Radio Monumental	Asunción	2019.11.09	0659	23322
1080	USA	WQOS	Coral Gables FL	2019.11.08	1000	32332
1089	Iran	IRIB Radio Semnan	Shahroud	2019.11.03	2000	21341
1090	USA	KAAY	Little Rock AR	2019.11.07	0800	22443
1098	China	CNR 1 <i>(note 2)</i>	Golmud	2019.11.08	1858	44434
1100	Brazil	ZYK694 Rádio Globo	São Paulo SP	2019.11.08	0658	34343
1100	Colombia	HJCN BBN	Bogotá	2019.11.06	0859	33333
1100	Colombia	HJAT Caracol Radio	Barranquilla	2019.11.08	0859	33333
1106.979	Afghanistan	Radio Afghanistan	Pol-e Charkhi / Kabul	2019.11.09	0028	33333
1107	UK / Scotland	MFR 2	Tarbat Ness / Inverness	2019.11.03	2029	43443
1110	Brazil	ZYH464 Rádio Vox Bahia	Muritiba BA	2019.11.10	0457	33333
1110	USA	WGNZ	Fairborn / Dayton OH	2019.11.10	1100	223X2
1116	Hungary	Dankó Rádió	Miskolc & Mosonmagyaróvár	2019.11.08	1900	43443
1116	UK / Channel Is.	BBC Radio Guernsey	Saint Peter Port / Guernsey	2019.11.03	2029	33443
1116	UK / England	BBC Radio Derby	Burnaston / Derby	2019.11.08	2259	34333
1120	Brazil	ZYN606 Rádio Concórdia	Campo Grande MS	2019.11.08	0530	23331
1120.004	Brazil	ZYL272 Rádio Itatiaia	Ouro Preto MG	2019.11.08	0700	23322
1120.032	Brazil	ZYK660 Rádio Cidade	São José dos Campos SP	2019.11.08	0702	23323
1120	Brazil	ZYJ253 Rádio Mais	São José dos Pinhais PR	2019.11.08	0759	23332
1120	Brazil	ZYH598 Rádio Tupinambá	Sobral CE	2019.11.09	0701	23332
1125	India	All India Radio	Udaipur or Tezpur	2019.11.09	0024	13XX1
1125	UK / Wales	BBC Radio Wales	Llandrindod Wells	2019.11.08	1900	214X2
1130	Colombia	HJQQ Radio Reloj	Pasto	2019.11.07	0802	22432
1130	Colombia	HJVA Cadena Radial Vida	Bogotá	2019.11.10	0554	22432

1134.000	Korea, South	HLKC KBS 3	Hwaseong	2019.11.09	0931	23322
1142.971	India	All India Radio	Ratnagiri	2019.11.09	0023	22332
1142.992	India	All India Radio	Rohtak	2019.11.09	0023	33333
1150	Argentina	LRH202 Radio Tupambaé	Posadas	2019.11.08	0700	23322
1149.997	Brazil	ZYJ617 Rádio Cabugi do Seridó	Jardim do Seridó RN	2019.11.07	2300	33343
1152	Pakistan	Radio Pakistan	Rawalpindi	2019.11.08	1901	22321
1160	Antigua	Caribbean Radio Lighthouse	Bolands / St. John's	2019.11.05	0800	32332
1160	Brazil	ZYH714 Mix FM / R. MEC relay (note 3)	Brasília DF	2019.11.07	2259	23332
1160	USA	WCVX	Florence KY	2019.11.10	0259	23343
1161	Egypt	Mid-Delta Radio	Tanta	2019.11.03	2158	44444
1170	Brazil	ZYJ598 Rádio Difusora	Mossoró RN	2019.11.05	2157	23322
1170	Colombia	HJNW Caracol Radio	Cartagena	2019.11.10	0601	23332
1170.188	Pakistan	Radio Pakistan	Peshawar	2019.11.08	1758	22332
1170	UK / England	Greatest Hits Radio	Stockton	2019.11.04	2100	23322
1179	Spain	SER Radio Rioja	Logroño RI	2019.11.03	2058	32332
1188.032	India	All India Radio	Mumbai	2019.11.09	0030	22321
1190	Argentina	LRA15 Radio Nacional	San Miguel de Tucumán	2019.11.08	0700	23333
1190	Brazil	ZYH459 Rádio Juazeiro	Juazeiro BA	2019.11.08	0802	23332
1190	Canada	CFSL	Weyburn SK	2019.11.10	0502	33333
1190	Colombia	HJCV Radio Cordillera	Bogotá	2019.11.06	0900	23332
1200	Brazil	ZYH585 Super Rádio Clube	Fortaleza CE	2019.11.08	0559	32342
1205.963	China	Yanbian RGD	Yanji	2019.11.09	0953	12331
1206	India	All India Radio	Bhawanipatna	2019.11.09	0023	24322
1205.980	Iran	IRIB Radio Khorasan-e Jonubi	Nehbandan	2019.11.03	1930	23432
1206	Israel	KAN Reshet Bet	Akko / Haifa	2019.11.03	2200	34343
1210	Brazil	ZYI786 Rádio Jornal	Garanhuns PE	2019.11.08	0659	32322
1220	Argentina	LRI224 Eco Medios	Buenos Aires	2019.11.08	0700	24333
1224.016	Iran	IRIB World Service	Kish	2019.11.03	2029	33333
1230	Brazil	ZYK716 Jovem Pan News	Campinas SP	2019.11.08	0631	133X1
1233	UK / England	Absolute Radio	Manningtree & King's Heath	2019.11.03	2101	22332
1240	USA	WBAS	West Yarmouth MA	2019.11.08	2203	22322
1242.000	Japan	JOLF NBS Nippon Hoso (note 4)	Kisarazu / Tokyo	2019.11.05	0952	24312
1242	UK / England	Smooth Radio	Hoo St. Werburgh	2019.11.04	2000	224X1
1249.997	Brazil	ZYH594 Rádio Educadora (note 5)	Crateús CE	2019.11.05	0800	33323
1250.059	Brazil	ZYJ925 Rádio Esperança	Estância SE	2019.11.07	2300	24333
1250	Colombia	HJCA Radio Capital	Bogotá	2019.11.07	0757	22422



1250	USA	WPGP	Pittsburgh PA	2019.11.10	0900	22332
1251	India	All India Radio	Sangli	2019.11.09	0018	24332
1251	UK / England	Smooth Radio	Great Barton / Bury St. Edmunds	2019.11.04	2000	33443
1260	Pakistan	Radio Pakistan	Peshawar	2019.11.08	1900	22322
1260	UK / England	Smooth Radio	Farndon / Wrexham	2019.11.04	2000	33433
1260	USA	WSUA Radio Caracol	Miami FL	2019.11.09	0959	34444
1269	Iran	IRIB Radio Ardabil	Khalkhal	2019.11.03	2030	33333
1269	Kuwait	Radio Kuwait Arab Music Programme	Kabd	2019.11.03	2000	33343
1270	Brazil	ZYJ289 Rádio Independência	Cascavel PR	2019.11.05	2158	22322
1269.994	Brazil	ZYK678 Rádio Brasil Campinas	Campinas SP	2019.11.08	0400	23322
1270	USA	WIWA	Eatonville / Orlando FL	2019.11.09	1000	22332
1270	USA	WACM	Springfield MA	2019.11.10	0900	123X1
1278.000	Japan	JOFR RKB, Mainichi Hoso	Fukuoka	2019.11.09	0959	14331
1278	Oman	Radio Sultanate of Oman	Bahla	2019.11.03	1928	33323
1278	UK / England	Pulse 2	Tyersal Lane / Bradford	2019.11.04	2000	33433
1280	USA	WWTC	Minneapolis MN	2019.11.09	0700	33323
1287	India	All India Radio	Panaji	2019.11.09	0026	23322
1287.000	Japan	JOHR HBC, Hokkaido Hoso	Sapporo	2019.11.09	0956	14332
1290	Brazil	ZYJ804 Rádio Camboriú	Balneário Camboriú SC	2019.11.07	0759	23432
1289.965	Brazil	ZYJ310 Rádio Brasil Sul	Londrina PR	2019.11.07	0800	23432
1290	Canada	CFRW	Winnipeg MB	2019.11.08	0559	33423
1290	USA	WTKS	Savannah GA	2019.11.05	0959	33343
1296	Afghanistan	VOA Radio Ashna	Pol-e Charkhi / Kabul	2019.11.10	0028	33343
1299.999	Argentina	LRA5 Radio Nacional	Rosario	2019.11.08	0702	13331
1299.964	Paraguay	ZP10 Radio Fe y Alegría	Asunción	2019.11.10	0501	33333
1305	India	All India Radio	Parbhani	2019.11.09	0023	23322
1305.091	Iran	IRIB Radio Bushehr	Bushehr	2019.11.03	2030	33343
1310.000	Argentina	LRA42 Radio Nacional	Gualeduaychu	2019.11.08	0600	23332
1310.045	Brazil	ZYI691 Rádio Cidade Esperança	Esperança PB	2019.11.05	2201	23323
1310	USA	KNOX	Grand Forks ND	2019.11.10	0600	23343
1310	USA	WICH	Norwich CT	2019.11.10	0900	22332
1314	Iran	IRIB Radio Iran	Ardabil	2019.11.03	2030	33343
1314	Romania	Radio Oltenia-Craiova	Craiova	2019.11.04	2059	34333
1314	Romania	Antena Satelor	Timișoara & Constanța	2019.11.09	1859	34433
1320	Brazil	ZYI823 R Cultura de São José de Egito	São José de Egito PE	2019.11.05	2202	22311
1320	Canada	CHMB	Vancouver BC	2019.11.05	0800	23322

1320	USA	WDER	Derry NH	2019.11.07	0800	224X2
1320	USA	WJAS	Pittsburgh PA	2019.11.09	0700	22322
1320	USA	WLQY	Hollywood FL	2019.11.09	1000	33333
1320	USA	WKAN	Kankakee IL	2019.11.10	0859	33313
1320	Venezuela	YVWP Radio Apolo	Turmero	2019.11.08	0800	23321
1332	Japan	JOSF Tokai Hoso	Nagoya	2019.11.05	0959	24322
1332	Pakistan	Radio Pakistan	Lahore	2019.11.09	1901	23331
1332	UK / England	Gold	Gunthorpe / Peterborough	2019.11.08	1859	33443
1340.001	Brazil	ZYH661 Rádio Pitaguary	Fortaleza CE	2019.11.08	0100	33333
1339.946	Brazil	ZYH886 Jovem Pan News	São Luís MA	2019.11.08	0732	34433
1341	Iran	IRIB Radio Kerman	Bam	2019.11.03	2030	32332
1341	UK / Northern Ireland	BBC Radio Ulster	Lisnagarvey	2019.11.04	2000	55555
1350	Canada	CBSI-14	Aguanish QC	2019.11.08	1100	23311
1350	Egypt	ERTU Al-Barnameg al-Aam	Al-Qusayr	2019.11.03	2100	23332
1350	USA	KRNT	Des Moines IA	2019.11.07	1000	23422
1350	USA	WNLK	Norwalk CT	2019.11.07	1000	23321
1350	USA	WHWH	Princeton NJ	2019.11.08	1102	33323
1350	USA	WOYK	York PA	2019.11.09	1100	33323
1350	USA	WARF	Akron OH	2019.11.10	0859	33333
1359	China	CNR 1	synchros	2019.11.08	2357	23332
1359	Ethiopia	Dimtsi Woyane Tigray	Mekelle	2019.11.08	0255	24333
1359	UK / England	Greatest Hits Radio	Shilton / Coventry	2019.11.03	2059	32332
1360	USA	WHNR	Cypress Gardens FL	2019.11.07	1100	24323
1360	USA	KKBJ	Bemidji MN	2019.11.10	0600	22322
1370	Brazil	ZYJ267 Rádio Canção Nova	Curitiba PR	2019.11.08	0259	22332
1370	USA	WTAB	Tabor City NC	2019.11.09	0701	33322
1379.997	Brazil	ZYI773 Rádio Continental	Recife PE	2019.11.07	2300	34323
1380	USA	WWMI	St. Petersburg FL	2019.11.08	0559	34333
1380	USA	WABH	Bath NY	2019.11.09	2300	24332
1386	India	All India Radio	Gwalior	2019.11.09	0027	15331
1367.972	Iran	IRIB Radio Golestan	Gonbad-e Qabus	2019.11.03	2030	32332
1386	Lithuania	NHK World	Viešintos	2019.11.10	1758	35353
1390.000	Brazil	ZYI535 Rádio Educadora	Bragança PA	2019.11.07	0801	23432
1390	Brazil	ZYJ473 Nova Sul Fluminense	Barra Mansa RJ	2019.11.08	0701	34333
1390	Puerto Rico	WISA	Isabela	2019.11.08	2159	33333
1390	USA	WFBL	Syracuse NY	2019.11.06	0900	23432

1390	USA	WRSC	State College PA	2019.11.09	0700	22332
1390	USA	WMER	Meridian MS	2019.11.10	0859	24332
1395	India	All India Radio	Bikaner	2019.11.09	0026	14331
1395	Ireland	Energy Power AM	Dublin	2019.11.03	2157	14331
1395	Netherlands	Radio Seabreeze	Grou	2019.11.03	2130	24322
1400	Brazil	ZYJ462 Rádio Rio de Janeiro	Rio de Janeiro RJ	2019.11.08	0559	32342
1400	USA	WOND	Pleasantville NJ	2019.11.05	0759	32342
1400	USA	WSLB	Ogdensburg NY	2019.11.09	1100	213X1
1404	Romania	Radio România Actualități	Sibiu	2019.11.03	2159	33443
1410	Brazil	ZYJ614 Rádio Santa Cruz	Santa Cruz RN	2019.11.08	0059	23322
1410	Brazil	ZYK683 Jovem Pan News	Rio Claro SP	2019.11.08	0631	23322
1410	Canada	CJWI	Saint-Constant / Montréal QC	2019.11.07	0800	33433
1412.998	Japan	JOIF KBC, Kyushu Asahi Hoso	Fukuoka	2019.11.05	0952	34423
1413	Moldova / Transnistria	Vesti FM	Grigoriopol / Maiac	2019.11.09	0259	33423
1413	Oman	BBC World Service	A'Seela	2019.11.03	1930	33443
1420	USA	WOC	Davenport IA	2019.11.07	1100	23323
1420	USA	WAOC	St. Augustine FL	2019.11.09	1100	23322
1422.000	Japan	JORF RF Radio Nippon	Yokohama	2019.11.05	0956	24322
1430	Brazil	ZYK707 Rádio Imaculada Conceição	São Roque SP	2019.11.05	0801	33423
1430	USA	WKOX	Everett MA	2019.11.07	0801	23333
1431	Djibouti	Voice of America	Balbala	2019.11.03	2059	44344
1440	USA	WGIG	Brunswick GA	2019.11.07	1100	24333
1449	UK / England	BBC Asian Network	Gunthorpe / Peterborough	2019.11.03	2100	223X2
1449	UK / Scotland	BBC Radio 4	Redmoss / Aberdeen	2019.11.03	2200	34353
1450.006	Brazil	ZYI794 Rádio Cultura dos Palmares	Palmares PE	2019.11.08	0100	33323
1460	USA	KXNO	Des Moines IA	2019.11.07	1128	34333
1450	USA	WNBP	Newburyport MA	2019.11.09	1000	34443
1460	USA	WTKT	Harrisburg PA	2019.11.09	0700	32322
1467	India	All India Radio	Jeypore	2019.11.09	0023	23322
1470	Brazil	ZYJ476 Rádio Absoluta	Campos dos Goytacazes RJ	2019.11.08	0559	33322
1470	USA	WJDY	Salisbury MD	2019.11.08	0959	33333
1470	USA	WWNN	Pompano Beach FL	2019.11.09	0300	23332
1470	USA	WQXL	Columbia SC	2019.11.10	1059	33333
1476	Benin	Trans-World Radio	Sérarou / Parakou	2019.11.08	1920	43423
1476	UAE	Radio Asia	Ras al-Khaimah	2019.11.03	2057	55555
1476	UK / England	Carillon Wellbeing Radio	Coalville	2019.11.08	1902	33433

1480	Brazil	ZYI825 Rádio Canção Nova	Gravatá PE	2019.11.08	2157	33443
1485	Iran	IRIB Radio Iran	Damghan	2019.11.07	2101	13321
1485	UK / England	BBC Radio Merseyside	Wallasey	2019.11.08	1858	33433
1494	Iran	IRIB Radio Khorasan-e Razavi	Taybad	2019.11.03	2029	24332
1499.997	Brazil	ZYK776 Rádio Cidade de Apiaí	Apiaí SP	2019.11.07	0759	32332
1500	Brazil	ZYK549 Rádio Cidade das Árvores	Araras SP	2019.11.08	0658	22332
1500	USA	KSTP	St. Paul MN	2019.11.09	1100	213X1
1502.856	Bosnia & Herzegovina	Radio 1503 Zavidovići	Zavidovići	2019.11.03	2100	23332
1503.000	UK / England	BBC Radio Stoke	Sideway / Stoke-on-Trent	2019.11.03	2059	33333
1510	Brazil	ZYN613 Rádio Maria (tent)	Mundo Novo MS	2019.11.08	0557	33322
1510	Brazil	ZYK770 Rádio Vale	Salto SP	2019.11.08	0700	33332
1510	Ecuador	HCIO2 Radio Naval	Guayaquil	2019.11.06	0225	22332
1509.995	Ecuador	HCBD1 Radio Monumental	Quito	2019.11.09	0657	33333
1510	Puerto Rico	WBSG Super	Lajas	2019.11.06	0900	22322
1510	USA	KCKK	Littleton / Denver CO	2019.11.06	0901	33323
1510	USA	WPGR	Monroeville PA	2019.11.08	0900	23332
1510	USA	WWBC	Cocoa FL	2019.11.10	0859	24232
1520	Brazil	ZYH530 Rádio Povo	Poções BA	2019.11.09	0300	22221
1520.039	Colombia	HJLI Su Presencia	Bogotá	2019.11.09	0300	22332
1521	China	China Radio International	Hutubi / Urumqi	2019.11.08	2357	44444
1521	UK / England	Radio Panj	Ryton-on-Dunsmore / Coventry	2019.11.04	2002	33433
1530	Brazil	ZYH479 Rádio Cultura (tent)	Guanambi BA	2019.11.05	0800	23322
1530.056	Brazil	ZYL280 Rádio Clube	Pouso Alegre MG	2019.11.07	0758	23322
1530	Mexico	XEUR Éxtasis Digital Radio	México DF	2019.11.08	0957	24332
1530	USA	KGBT	Harlingen TX	2019.11.09	1100	33333
1539	UAE	Pravasi Bharathi	Abu Dhabi	2019.11.03	2059	44434
1540	Brazil	ZYL217 Rádio Super Difusora	Bom Despacho MG	2019.11.07	0801	22322
1548	Kuwait	VOA Radio Sawa	Al Jahra	2019.11.08	2259	33333
1550.030	Algeria / Clandestine	Nacional Rep. Arabe Saharai Democr.	Rabouni / Tindouf	2019.11.08	2157	44444
1550	Brazil	ZYK590 Rádio Guarujá AM	Guarujá SP	2019.11.08	0802	23322
1550	Colombia	HJZI G12 Radio	Bogotá	2019.11.07	0801	33333
1550	USA	WSDK	Bloomfield / Hartford CT	2019.11.07	0800	34423
1550	USA	WITK	Pittston PA	2019.11.10	1100	23323
1557	UK / England	Smooth Radio	Veals Farm / Southampton	2019.11.04	2000	33323
1557	UK / England	Gold	King's Heath / Northampton	2019.11.04	2000	33323
1557	Taiwan	Radio Free Asia	Kou'hu	2019.11.07	2059	23332

1557	Taiwan	Radio Taiwan International	Kou'hu	2019.11.09	0954	34323
1560.038	Brazil	ZYJ501 Rádio Grande Rio	Itaguaí RJ	2019.11.07	0057	33333
1559.815	Brazil	ZYH622 Rádio Difusora Vale do Curu	Pentecoste CE	2019.11.08	2201	23323
1560	USA	KGOW	Bellaire TX	2019.11.10	0600	22332
1566	Korea, South	HLAZ Far East BC / Radio Free Asia	Jeju	2019.11.09	0955	34323
1566	Netherlands	Vahon Hindustani Radio	Leidschenveen / Den Haag	2019.11.04	1959	33333
1566	UK / England	BBC Somerset	Taunton	2019.11.04	1959	33323
1570	Brazil	ZYH621 Rádio Sertão Central	Senador Pompeu CE	2019.11.08	0100	33333
1575	Thailand	Voice of America	Ban Phachi	2019.11.08	2200	22432
1580	Brazil	ZYL290 Rádio Cultura	Santos Dumont MG	2019.11.05	2200	23322
1580	Brazil	ZYI898 Rádio Santa Clara	Florianópolis PI	2019.11.05	2200	23322
1580	USA	WNYG	Patchogue NY	2019.11.08	1000	223X1
1584	Romania	Vocea Speranței	4 small synchros	2019.11.09	0000	22332
1584	UK / England	Love Sport	Lea Bridge Road / London	2019.11.04	1959	33333
1590	USA	WCSL	Cherryville NC	2019.11.09	1100	23321
1602.145	Latvia	Radio Tsentr	Riga	2019.11.09	2257	24333
1610	Canada	CHHA	Toronto ON	2019.11.09	1058	43433
1611	Norway	Radio Northern Star	Erdal / Bergen	2019.11.04	1959	35323
1616	Netherlands	Radio Metoor <i>(note 6)</i>	pirate	2019.11.09	2110	15331
1617	Netherlands	Mike Radio	pirate	2019.11.09	1857	25322
1620	US Virgin Is.	WDHP	Frederiksted	2019.11.03	2201	25333
1620	USA	KOZN	Bellevue NE	2019.11.10	1100	154X1
1630	Netherlands	Radio Columbia	pirate	2019.11.04	2030	24433
1633.00	Netherlands	Alabama	pirate	2019.11.09	1953	35343
1633	Netherlands	Radio Concorde <i>(note 7)</i>	pirate / Achterhoek	2019.11.09	2042	15321
1633.05	Netherlands	Yogi Bear Radio <i>(note 8)</i>	pirate	2019.11.09	2257	24332
1633.97	Netherlands	Uniek Radio	pirate	2019.11.08	2029	24333
1634.13	Netherlands	Witte Raaf	pirate	2019.11.08	2157	25322
1638	Netherlands	Radio Bluebird	pirate / Finsterwolde	2019.11.09	2112	25323
1640.013	USA	WTNI	Biloxi MS	2019.11.08	0730	23332
1655.03	Netherlands	Radio B4 / Batavier Radio	pirate	2019.11.09	2033	25333
1656 USB	Spain	Tarifa Radio	Tarifa	2019.11.09	2004	24343
1660	Puerto Rico	WGIT	Canóvanas	2019.11.09	2259	34343
1660	USA	WBCN	Charlotte NC	2019.11.10	1100	22431
1665.00	Serbia	Romeo Radio <i>(note 9)</i>	pirate / Beograd	2019.11.09	1953	35333
1680	USA	KRJO	Monroe LA	2019.11.08	0600	23321

1700	USA	KBGG	Des Moines IA	2019.11.08	0559	33343
<a href="#">1709.87</a>	USA	Radio Celestial	Bronx NY	2019.11.08	0557	15232
<a href="#">1710.02</a>	USA	WQFG689 (TIS)	Jersey City NJ	2019.11.08	0957	24242
6230	Ireland	Coast FM relay ( <i>note 10</i> )	pirate / Sligo	2019.11.03	2014	35344

Notes: *note 1* helpful comments from Max van Arnhem and Jan Alvestad / RealDX; *note 2* transmitter site confirmed by Mika Mäkeläinen; *note 3* Jan Alvestad / RealDX communicated that Mix FM was relaying R. MEC from Brasilia; *note 4* language confirmed by Chuck Hutton / RealDX; *note 5* ID by Rudolf Grimm / RealDX; *note 6* by comparison with Terry's Radio Blog; *note 7* kindly confirmed by QSL from the station; *note 8* ID via Iann's Pirate Radio Chat website; *note 9* location by John Fisher in 2020; *note 10* location of station from Dave Kenney / Dexplorer