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NEWFOUNDLAND DXPEDITION: NOVEMBER 1991

[subtitled "So Much DX, So Little Time" or  
"Neil, Jean, & Mark's Excellent Adventure"]

Article by Mark Connelly - WAIION  
DX by Neil Kazaross, Jean Burnell, and Mark Connelly

During the summer of 1991, I started making plans for a DXpedition about which I had long fantasized. The trip would be to a location near the Signal Hill site in Newfoundland from which Guglielmo Marconi had established his first Trans-Atlantic wireless communication 90 years earlier. Hearing Trans-Atlantic (TA) stations would again be the goal, this time on Medium Wave. Neil Kazaross got interested in the project right from the start and said he was psyched about getting involved, despite the long journey he'd have to take from his California home. He said it would give him an opportunity to hear TA, Brazilian, and Caribbean DX that he hadn't heard since his East Coast DX glory days in Ogunquit, Maine circa 1984-1985. I circulated a memo among several DXers that specialize in logging foreign stations. Through Nick Hall-Patch, I was informed that there was an active DXer right in St. John's: Dr. Jean Burnell. He teaches chemistry at Memorial University; he knows the shortwave bands thoroughly as well as having done quite a bit of medium-wave listening. Nick said that Jean's loggings, including such "goodies" as Iraq-1360 (before it got blown up), have appeared in the CIDX Messenger. Jean was contacted and he said that he was glad to participate. I knew that this local support would help the effort greatly. Dates of 7 NOV through 10 NOV 1991 were set for the DXpedition. After I did a bit of map study, I concluded that the area around Renewes and Cappahayden (about 50 miles south of Marconi's site in St. John's) would be ideal because it would be far enough from St. John's local AM'ers (that, of course, didn't exist in 1901) to provide good DXing opportunities. With significant land blockage towards US & Canadian stations to the west and waterpaths to desired Europeans, Africans, and South Americans, a better site could hardly be imagined. Going farther south to Cape Race would have reduced westward blockage and increased QRM from a pesty LORAN station at Trepassey. Besides Neil Kazaross and Jean Burnell, Richard Eckman and Karl Zuk had initially indicated interest in joining the DXpedition, but family and work situations made them cancel out shortly before the scheduled date.

Day 1: Thursday - 7 NOV 1991

Neil arrived in St. John's in the early afternoon, met Jean Burnell, and was driven out to a DX site near the lighthouse in Renewes, NF about 5 miles from the Lawlor's (bed & breakfast) Hospitality Home in Cappahayden: the lodging place that became the DX Inn. Neil and Jean quickly set up a 1275-ft. Beverage at the Renewes site; the wire was oriented at a bearing of about 110 degrees to provide good coverage of most of Africa and southern Europe. My mini-DXpedition to Rockport, MA

a one-month solar cycle earlier pointed strongly to the fact that conditions were going to be auroral: Africans, South Americans, and Caribbean stations had predominated at that time. Predictions turned out to be quite true: well before sunset on the 7th, Neil and Jean were logging Africans from the Renewes site at a fast and furious pace on Neil's Icom R70 and Jean's Icom R71A running on car battery power.

I arrived in St. John's around sundown. When I got my rental car at the airport, I immediately checked the car radio and found Guinea-1404 loud and clear on both 1400 and 1410 on its DXer-unfriendly 10-kHz-channelized dial. It took little time to find other signals such as Mauritania-1349 and Canaries-1008. Conditions were decidedly good to Africa, Spain, and Portugal (but poor to northern Europe). I drove out to the DX Inn in Cappahayden and arrived at about 7 PM NST (2230 GMT). After a quick unpacking, I set up the Sony ICF-2010 and my homebrew RTL-1 loop in the room. The TA's I was getting "knocked my socks off" ! Generally TA's were louder than any domestics except Marystown on 740 and St. John's on 590, 640, 800, and 930. The only US stations heard were from Boston and New York City ! After about an hour of this, I drove out to the Renewes site to rendezvous with Neil and Jean. I had been impressed with what I was getting at the inn with the loop, but the stuff they were getting on the Beverage put that in the dust ! All kinds of Africans were blasting in, as the logs to follow will indicate. As it was now well after dark, Brazilians were starting to show, especially the big guns in the northeast corner from cities such as Fortaleza and Natal. But the Brazilians heard that night were just a mere foretaste of what we'd be getting the next night. By about midnight local, things started winding down on the Africa route and we all knew that there'd be a lot of antenna work to do the next day so we retired to the DX Inn to review the loggings and turn in for the typical 4 to 6 hours of sleep.

Day 2: Friday - 8 NOV 1991

Morning came with temperatures a bit above freezing, a heavy overcast, and occasional drizzle. An agenda was laid out: find somewhere to eat, discuss DX strategy, string out a "monster" Brazil-gettin' Beverage (of about 3000 ft. at about 160 degrees) at a field along the shore at the DX Inn, run a 400-footer for Europe at the Inn, add a second Beverage (about 1000 ft. at 130 degrees - pointed closer to the "gap" between Africa and Brazil) at the Renewes site, and see what the limits of daytime groundwave reception were. The only eating place was a Mom & Pop operation over in Fermeuse. It was not "haute cuisine" but it filled the bill. The three of us were the only customers each time we went there. The economy of this fishing area is not healthy these days. Over our meal that day (we only ate one real meal a day), we went over strategy and Neil distributed an African "hit list" to use that afternoon. The antennas were deployed as planned; in some cases we used Neil's method of terminating by using a 560-ohm resistor followed by 250 ft. more wire instead of the customary ground rods. Groundwave scanning around noon was interesting indeed: the TA groundwave DOES EXIST !! Good audio was had from Azores on 693 and numerous BFO-detectable carriers were heard around midday; these included Morocco-1044, Portugal-1035, and something on 828. Going the other way, WHDH-850 had good groundwave from Boston (it was the strongest US station); other US stations heard were WBZ-1030 (MA),

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WSSH-1510 (MA), and WCBS-880 (NY). The farthest Canadian heard on groundwave was a weak CBF-690 from Montreal. Weak-signal daytime reception was somewhat hampered, especially at the DX Inn site in Cappahayden, by actually-radiated (not receiver-generated) spurs from the LORAN station in Trepassey. These "tick-tick-ticks" chewed up things a bit on the low end of the dial. My attempt at Bermuda-1160 groundwave produced two (co-channel) weak carriers with a 2 Hz beat (SAH); these were probably Bermuda and Maine, but there wasn't enough audio to tell. In the early evening, we all DX'ed at the Renew's site. It "hummed" for Africans with Central African Republic - 1440 in at 2000 GMT along with many others as noted in the logs. The 130-degree Beverage proved useful as the evening wore on, reeling in Radio Carve (Uruguay) - 850, Argentina-870, and numerous Brazilians around 2300 GMT. Deep Africans were sometimes better on that wire too, as it nulled strong Spain and Portugal QRM better than the 110-degree Beverage did. The native music coming out of some of the African stations was so good that I was tempted to party to the tunes instead of DXing, but I managed to resist the temptation most of the time and press on with the quest for new catches.

By around 9 PM NST (0030 GMT), the Renew's site was getting less productive to Africa, so we went back to Cappahayden to concentrate on South America. It was determined that the DX Inn 3000-ft. Beverage would have to be run to a car because a noise source not noted previously had cropped up in the electrical wiring of the inn. Even with the Beverage, the noise inside the rooms where we'd hoped to set up a warm well-lighted operating position was excessive, so we parked about 100 feet away from the building. A trend was emerging: we were spotting many Brazilians on channels above 1220 kHz that, according to WRTH data, are "graveyarders" running 250 watts night power! The excitement of hearing 250-watt Brazilians on channels like 1560 and 1590 got to be contagious; we all dug into this effort well into the wee hours of the next morning. In the midst of this bacchanal of Brazilians, Karl Zuk called us from New York to find out how things were going. Outside the inn, in the night air that was now well below freezing, we all took turns on the innkeeper family's cordless phone describing the DX feast we'd all been enjoying. Karl said that it was indeed quite auroral and that Venezuelans and Colombians were much in evidence at his QTH. [News reports heard a few days later indicated that, had it not been cloudy that night, we would have had a great view of the Northern Lights.]

Day 3: Saturday - 9 NOV 1991

A sizable collection of taped ID's had been amassed from the Brazilian graveyarders. We took a quick break to analyze them. We sometimes found that Brazilian Indian names like "Piracuruca" were hard to tell apart after being shoved through a reverb unit, a 250-watt transmitter, and across 3000+ miles of ocean with more than a few thunderstorms somewhere in between. After the sometimes-fun, sometimes-frustrating ID attempts, we went out to dig for more. Just before local dawn that Saturday, our attention turned from Brazil to the Caribbean and to other South Americans. French Guiana-1070 and Guyana-760 were coming in just fine. Most of the Islands broadcasters were logged, including an astoundingly local-like St. Lucia on 660 at their sign-on. The clouds broke a bit at dawn and the sunrise was accompanied by an inrush of Jamaican, Cuban, and USA

(still just Boston and NYC, however) stations that had been heretofore blanketed by Brazil and Venezuela. With my head spinning in amazement from the non-stop loggings of the last 18 hours, I (and the rest of the crew) called it off for a quick 5-hour snooze. As I nodded off around 8 AM NST, crazy echoey ID's reverberated through my brain that had been "zorched" by a combination of excitement and lack of sleep. It reminded me of when I had operated ham radio events of comparably high intensity: ARRL DX Contests, Sweepstakes, and Field Day. Also I was reminded of the fanatical round-the-clock computer programmers in Steven Levy's book, "Hackers".

The last night was a bit more relaxed. A plan evolved to split up to DX from both sites simultaneously from just before sunset through the early evening. Neil manned the BrazilBev at the inn while Jean and I were running Africans from the two-Beverage site in Renew's. Jean and I were wailing on Africans: Lesotho - 1197 (a new BBC African relay station), logged at 1955 Z, was a prize catch because it was the most distant station heard (at approximately 7265 miles / 11692 km). This is farther away than most of China, Japan, Tibet, and India! Neil was simultaneously racking up many Brazilians and more than a few Africans on the 3000-footer in Cappahayden. The 400 ft. European wire at that site saw little use: a deep aurora was in progress, so many Europeans were poorer than they sometimes are noted in the Boston area, more than 700 miles farther away. Thoughts of logging India, Iraq, and Iceland were shelved: even the usual Norway-1314 megablaster was scarcely noticed. Conditions improved slightly towards Europe at the end but still the only really consistent Middle East signal was from the Saudi on 1521, a station that comes close to having worldwide medium-wave coverage, at least for DXers. After a while, Jean and I left Renew's and joined Neil back at the DX Inn. The BrazilBev at the inn netted a few new ones, but static from tropical thunderstorms had gotten worse. We took a break, listened to tapes, and had a few beers for the first time on this trip. Up to this point we had all been in "hyperdrive" and hadn't drunk anything stronger than tea. It was good to unwind. My flight out the next day was early, so I headed to bed around local midnight. Neil and Jean went out to the car and logged a few more Brazilians on the 3000-ft. BrazilBev, but soon gave up: static had gotten much worse.

Day 4: Sunday - 10 NOV 1991

Around 5:30 AM NST, I said my goodbyes and drove to St. John's to get my flight to Boston via Halifax. Neil and Jean took down the Beverages before Neil had to get to his flight late that morning.

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#### The Newfoundland DXpedition Logbook

DXers: Dr. Jean Burnell (of St. John's, NF), Mark Connelly (of Billerica, MA), Neil Kazaross (of Mill Valley, CA)

Main Receivers: Icom R70, Icom R71A  
Back-up / Parallel-Check Receiver: Sony ICF-2010

Antennas: <C> = Cappahayden, NF (DX Inn): 3000 ft. (914m.) Beverage at 160 degrees (Brazil); 400 ft. (122m.) at 70 degrees (Europe)

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<CL> = Cappahayden, NF (DX Inn): RTL-1 Loop w/ MWT-2 Option 5

<R> = Renew's, NF (near lighthouse): 1275 ft. (389m.) Beverage at 110 degrees (North/East Africa, Iberian peninsula); 1000 ft. (305m.) Beverage at 130 degrees (South/West Africa, eastern tip of Brazil)

Accessories: phasing units (MWDX-3, MWDX-5); MWT-2 regenerative tuner-preamplifier

Days listed are NOV 1991 - Times are GMT/UTC.

Trans-Atlantic DX from the Newfoundland DXpedition / NOV 1991

FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS	
531	07	2334	SPAIN - good w/ SS talk by m&f, R. Nacional Espana ID, o/ other (prob. Algeria)	<CL>
549	07	2336	ALGERIA Les Trembles - f AA vocal - XLNT	<CL>
558	07	2336	unID - carrier in NF-560 slop	<CL>
567	07	2336	unID - carrier in NF-560 slop	<CL>
576	07	2337	SPAIN Tarragona - SS m talk // 585, fair	<CL>
585	07	2337	SPAIN Madrid - good w/ SS m // 576	<CL>
594	07	2340	PORTUGAL Hufe - cl. mx (R. Renascenca // 963) poor, in VOXM-590 slop	<CL>
603	07	2342	SPAIN Sevilla - fast SS talk	<CL>
603	08	0234	SPAIN Sevilla - XLNT w/ SS talk	<R>
612	07	2344	MOROCCO Sebaa Aioun - AA m chant, LIKE A LOCAL	<CL>
621	07	2345	CANARY ISLANDS Santa Cruz - SS m, o/ fast SAH	<CL>
630	07	2349	PORTUGAL Santa Isabel - jazz // 666, in jumble w/ CFCY	<CL>
639	07	2346	SPAIN La Coruna et al - SS m&f in CBN-640 slop	<CL>
648	07	2347	LIBYA Tobruk (t) - dominant w/ AA chanting	<CL>
656	09	2033	unID - interesting old-plan channel carrier, possible snatches of audio	<R>
657	07	2348	MOROCCO (t) - AA f vocal, o/ unID	<CL>
657	08	2114	unID (NIGERIA or SOUTH AFRICA) - southern African language noted poor; Spain phased	<R>
657	09	2022	SPAIN Madrid - RNE R. 5 - good w/SS 'futbol'	<R>
666	07	2349	PORTUGAL Lisboa - jazz & blues // 630; good o/ unID	<CL>
666	08	0213	ALGERIA Tindouf fair atop SAH from normal-dominant Portugal w/AA // 549 etc.	<R>
675	07	2352	FRANCE Marseille - US pop mx // 1071	<CL>
684	07	2353	SPAIN Sevilla - m SS teletalk - LIKE A LOCAL	<CL>
684	08	0208	SPAIN Sevilla - SS // 702, 720, 747	<R>
693	07	2357	AZORES/unID- Santa Barbara, Terceira w/f PP talk o/AA	<CL>
693	09	1400+	AZORES Terceira groundwave noted consistently when checked 1400-1600 Z on loop w/ICF-2010 rx. from room in Cappahayden. Weak (QRM'ed by Trepassey LORAN harmonics) on Bev in Renew's at 1658 Z on 09 NOV: m PP talk. Audible anytime when checked - TA groundwave (!!) 10 kW at >1200 miles. Massive at night. Other TA sig's noted noon/early afternoon: 774, 819, 828, 836, 837, 1035, 1044, 1053, 1566	<CL/R>

Trans-Atlantic DX from the Newfoundland DXpedition / NOV 1991 (continued)

FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS	
702	07	2355	MOROCCO Sebaa Aioun - a cappella AA chant // 612	<CL>
702	08	0208	SPAIN Zamora - SS // 684, 720, 747	<R>
711	07	2358	MOROCCO Laayoune - AA m all excited about something - shouting, bits of interspersed violin, het from CKVO-710	<CL>
720	08	0003	PORTUGAL/CANARY ISLANDS/CANADA - PP talk, mixed w/ SS talk & CHTN.	<CL>
720	08	0208	CANARY ISLANDS - SS // 684, 702, 747	<CL>
729	08	0005	SPAIN synchros. - SS o/ others	<CL>
746	08	0205	unID (Kenya ?) - het against 747	<R>
747	08	0007	CANARY ISLANDS Las Palmas - SS m&f, then opera	<CL>
747	08	0208	CANARY ISLANDS Las Palmas - SS // 684, 702, 720	<R>
747	08	2305	CANARY ISLANDS - SS talk	<R>
747	09	2024	CANARY ISLANDS/SPAIN - RNE R. 5 Las Palmas & Cadiz; fair (in QRM) w/ SS 'futbol' // 657	<R>
747	09	2027	BURKINA FASO Ouagadougou - RTV Burkina: African drums & flute mx, poor u/ RNE but definitely // 4815	<R>
756	08	0007	unID - carrier jumble	<CL>
765	08	0008	SENEGAL Dakar - Afro vernacular talk; LOUD	<CL>
774	08	0009	SPAIN synchros. - f SS talk, soft guitar mx; LOUD	<CL>
774	09	2031	SPAIN - RNE R. 1 synchros, m SS talk fair. Had echo sound typical of many Spanish synchros.	<R>
774	09	2033	MOROCCO Agadir - RTM (C) poor to fair w/AA-based f talk (pres. Berber), then AA mx; // 702.	<R>
782	09	2037	unID - het, probably Lichinga, Mozambique	<R>
783	08	0010	PORTUGAL Miramar (t) - OC	<CL>
783	09	2037	PORTUGAL Miramar - f PP talk, then rock mx; poor	<R>
792	08	0012	SPAIN - SS rock, SS m talk	<CL>
792	09	1923	SPAIN - fair w/ SS 'futbol' event //900, 1584, others	<C>
801	08	0013	unID - het against VOWR-800	<CL>
801	08	0416	SPAIN Lugo et al - good w/ SS pgm // 855	<R>
810	07	2148	SPAIN/BRAZIL - Spain SS pgm o/Fortaleza, Brazil PP.	<R>
818	07	2147	ZAMBIA Lusaka - good to very good w/ African mx // 4920. This explains 818 hets frequently noted at New England beach DX sites.	<R>
818	09	2040	unID African - weak African mx w/ lots of drums, choir at 2045 Z, m said a couple of words in unID lang., QRM from Rabat, Morocco - 819.	<R>
819	08	0014	MOROCCO Rabat - f AA vocal, het fr. unID-818.8	<CL>
819	08	0248	EGYPT Batra w/ AA chant u/Morocco AA talk	<R>
828	07	2116	PORTUGAL - PP talk // other net stn's	<R>
828	08	0015	PORTUGAL Santa Isabel - PP talk, fair o/ mess	<CL>
828	08	0420	LIBYA Sebha - Koran recitation // 1053, 1251	<R>
836	08	0016	AZORES Barossa - station noted by Burnell (@ St. John's, NF) & Connelly (@ Rockport, MA) on 837 recently has moved back to 836.	<CL>
836	08	0243	AZORES Barossa - PP // 693; QRM'ed by Canaries-837	<R>
837	08	0016	CANARY ISLANDS/SPAIN - SS m talk w/ echo due to (presumed) satellite delay on feed	<CL>
837	08	0242	SPAIN Sevilla et al - SS under // Canaries stn	<R>
846	08	0017	ITALY Rome - fair to good w/ II vocal	<CL>

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Trans-Atlantic DX from the Newfoundland DXpedition / NOV 1991 (continued)

FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS
855	08	0023	SPAIN Murcia - m&f in SS, somewhat muffled <CL>
872	07	2135	MOZAMBIQUE Beira - noted here w/m PP talk then light (calypso-like) African inst. mx. Taped. Fair w/ some 873 Spain QRM. Pgm. similar to that heard on SW and like 872 heard weakly by Kaz from ME in the past. <R>
882	07	2112	CANARY ISLANDS - R. Popular de Tenerife ID, XLNT <R>
882	08	2244	CANARY ISLANDS - f SS talk <R>
891	..	....	ALGERIA Algiers often good w/ AA <R>
900	09	1923	SPAIN - fair w/ SS 'futbol' event // many others. <C>
900	09	1930	ITALY Milan - II pgm showed up to QRM Spain. <C>
909	07	2058	NIGERIA Abuja - in & out w/ QRM from England, Spain, & possibly another African stn. African mx, then talk in an African lang., & some Afro-accented EE announcements. S/off at 2202 w/ same dedication & anthem heard on other Nigerian stn's. <R>
909	08	2049	BALEARIC ISLANDS - SS f (R. 5 Mallorca) // 1107 <R>
909	08	2201	NIGERIA Abuja - anthem, then s/off; GOOD! Taped. <R>
909	09	2050	unID (prob. Nigeria) - Afro. mx; RNE phased <R>
909.8	09	2051	GAMBIA - R. Syd noted from 2051-2102 Z; tough to copy. M announcer in unID lang., reggae mx, talk at 2056-2058 w/ 3 or more Gambia mentions, more reggae, drums at 2100, then possible news. <R>
918	07	2248	NIGERIA Ikeja or Makurdi - o/unID AA stn. Afro-EE song mentioning Nigeria. <R>
918	07	2300	SPAIN/NIGERIA - R. Internacional in Madrid w/ SS; atop Nigerian. <R>
918	08	2157	SPAIN Madrid - m SS talk, o/ others <R>
936	08	2156	MOROCCO Agadir - poor w/AA m vocal <R>
945	07	2109	ANGOLA (t) - PP talk o/France - fair to good. African mx noted later. Was NOT // 1088. <R>
945	07	2205	FRANCE - SS talk. <R>
954	08	2149	SPAIN Madrid - SS talk <R>
963	08	0253	PORTUGAL Seixal - PP religion // 594. <R>
963	08	2134	PORTUGAL Seixal - soft PP vocal <R>
972	08	0400	SPAIN Monforte de Lemos - (listed 2kW) - weak in NF-970 slop; SS // 855 <R>
981	08	2033	ALGERIA/PORTUGAL - m AA talk way o/ PP f talk <R>
981	08	2133	ALGERIA Algiers - AA vocal LOUD <R>
990	07	2100	SPAIN / unID Africans - 2 Africans noted here mixed w/ Spain. One had Afro-AA language and the other a more "traditional" African language. Perhaps Nigerians and/or Gabon (not noted on 989). <R>
990	08	2130	SPAIN/others - pips, R. Cadena SER ID atop a melange including AA (unID), EE (CBY), and a Brazilian in PP. <R>
990	09	2103	SPANISH MOROCCO/SPAIN - R. Ceuta & R. Bilbao. Running // SER talk; then separate ad strings (QRming each other; both at similar strength on 130 deg. Bev). <R>
999	08	2128	MOROCCO Ad-Dakhla - AA talk <R>
999	08	2249	MOROCCO Ad-Dakhla very good w/ AA // 1044 <R>
999	09	1926	MOROCCO Ad-Dakhla - m AA talk o/ Spain; fair <R>

Trans-Atlantic DX from the Newfoundland DXpedition / NOV 1991 (continued)

FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS
1008	08	0356	CANARY ISLANDS/SPAIN - Las Palmas absolutely LOCAL-LIKE; way o/ SER Spaniard who was // 1584 <R>
1008	08	2127	CANARY ISLANDS Las Palmas - m&f SS talk; LOCAL-LIKE <R>
1008	09	2011	CANARY ISLANDS/SPAIN - Las Palmas & Vigo - SS 'futbol', SER net <R>
1017	08	0352	SPAIN (RNE5) good w/ SS // 1107 <R>
1026	08	1910	MOROCCO Rabat - This 1kW'er noted w/ mx // 1188, 1197, 1325. Was u/ Spain. <R>
1026	08	2127	SPAIN Reus et al - SS talk, good <R>
1035	08	2123	PORTUGAL Lisboa - f PP talk, o/ low-pitched het <R>
1044	08	0418	SPAIN San Sebastian fair w/ SS; Morocco off <R>
1044	08	2249	MOROCCO Sebaa Aioun LIKE LOCAL w/ AA // 999 <R>
1044	09	1708	MOROCCO Sebaa Aioun poor on groundwave (or groundwave w/ residual winter-type day skip) at 1:38 PM local time! AA mx discernable. Stn is local-like nights. <R>
1053	08	0339	SPAIN - SS good w/ Morocco off at the time <R>
1053	08	0420	LIBYA Tripoli - Koran recitation // 828, 1251 <R>
1062	..	....	PORTUGAL - often good here <R>
1071	07	2352	FRANCE Lille - US pop mx // 675 <CL>
1080	07	2235	MOROCCO Casablanca good w/ AA chants // 1044 & 1053. Xlnt also around 2330, burying SER Net Spaniards. This would be a good coastal New England target at sunset w/ WTIC phased. <R>
1080	08	2251	MOROCCO/BRAZIL - Casablanca (1 kW!) dominant w/ AA mx // 1044, atop PP talk. Heard on 110 deg. Beverage near Renew's lighthouse. <R>
1088	07	2110	ANGOLA Luanda poor w/ mx. <R>
1088	07	2355	ANGOLA Luanda - good // 1367. Mx, then PP talk. <R>
1106	09	1952	unID - probably an African, but not // 4795 (Douala) <R>
1107	08	0352	SPAIN - SS XLNT w/ SS // 1017 et al <R>
1107	09	1945	SPAIN - RNE R. 5 synchros - solid w/ SS 'futbol' <R>
1115	07	2210	ANGOLA M'Banza-Kongo fair to good w/ little Spain-1116 QRM. PP talk - possible sporting event - w/ two mentions of R. Nacional de Angola. <R>
1116	08	0045	SPAIN - R. Pontevedra mention by SS f announcer <R>
1116	09	1941	SPAIN - R. Pontevedra -SER net w/Real Madrid 'futbol' <R>
1125	08	2201	unID (NIGER ?) - anthem, s/off o/u Spain. <R>
1125	09	1935	NIGER (t) - Niamey strongly suspected here, good w/ primitive African mx <R>
1125	09	2156	NIGER (t) - fair w/ Afro mx o/u RNE; no announcements at 2200. SW 5020 kHz not audible for determining // <R>
1134	..	....	SPAIN - commonly heard <R>
1152	07	2127	CAMEROON Bamenda - very good (way o/ Spain) - Afro mx., then Bamenda clearly mentioned in Afro lang. <R>
1152	09	0008	SPAIN - SS talk <R>
1160	07	2126	unID (BRAZIL or ANGOLA) - PP noted w/ 1161 het notched; poor in QRM. <R>
1161	08	2042	FRANCE/unID - m&f in FF o/ cl. vocal - opera <R>
1169	07	2224	unID het, likely of African origin. <R>
1170	07	2120	unID (PORTUGAL?) - instrumental jazz, very good. <R>
1170	08	0403	PORTUGAL Vila Real - fair w/ R. Comercial ID //1062. <R>

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Trans-Atlantic DX from the Newfoundland DXpedition / NOV 1991 (continued)

FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS
1170	07	2225	NIGERIA Abeokuta had Afro-accented EE talk w/ Nigeria mentions. It was way o/ a classical mx stn. that was likely USSR. Taped s/off 2300-2302 w/ dedication "God Bless Nigeria, My Country" - XLNT!! <R>
1170	07	2300	NIGERIA Abeokuta - XLNT: s/off taped <R>
1170	08	2005	NIGERIA Abeokuta - African vernacular talk <R>
1170	08	2047	NIGERIA Abeokuta - African-accented EE talk, hymn <R>
1178.9	09	0006	SPAIN - m SS talk, good <R>
1179	08	2039	SPAIN synchros. - m SS talk; good <R>
1188	08	2305	MOROCCO Casablanca - 1kW stn noted very good w/ FF news // huge signals on 1197 & 1325. <R>
1188	09	1947	ANGOLA - E. P. do Malanje - fair w/ m PP talk. <R>
1188	09	2202	ANGOLA - f PP talk, jingles & slogans, "La Bamba", then calypso mx. <R>
1197	08	2032	MOROCCO/PORTUGAL - Agadir w/ FF, o/ PP f talk <R>
1197	09	1956	MOROCCO Agadir - RTM (B) - "My Way" mx, ID, news in FF at 2000. <R>
1197	09	1955	LESOTHO - BBC relay - EE language course to 1959 Z then ID sequence w/ "This is London", "Lilybolero" theme mx, pips, and "BBC World Service" ID at 2000. News followed. Poor to fair through RTM Morocco QRM. <R>
1206	08	1904	FRANCE Bordeaux - rock mx // 1557 <R>
1206	08	2031	FRANCE Bordeaux - rock mx // 1242 <R>
1208.5	07	2228	LIBYA (t) - OC <R>
1215	08	2028	CANARY ISLANDS - SS talk <R>
1222.4	07	2237	SENEGAL Ziguinchor (t) - African talk / chant <R>
1222.4	08	2204	SENEGAL Ziguinchor - FF talk XLNT. Noted often at other times w/ AA & vernacular blend a la 765. Previously heard in Maine by Neil Kazaross (Kaz). <R>
1224	08	2026	SPAIN synchros. - 3 separate SS audios here ! <R>
1232	08	2142	ANGOLA Lubango - PP talk poor w/ Morocco (?) - 1233 het. Not // 1313. NF semi-local on 1230 phased. <R>
1232	09	2032	unID - maybe Angola - het against 1233 <C>
1233	08	0341	MOROCCO Tanger - AA chanting // 207 <R>
1242	08	2025	FRANCE Marseille - rock mx // 1206 <R>
1251	08	0420	LIBYA Tripoli - Koran recitation // 828, 1053 <R>
1251	08	2024	LIBYA/PORTUGAL - news in AA way o/ f PP operatic vocal & m PP talk <R>
1251	07	2240	PORTUGAL - PP pgm atop Libya <R>
1259	07	2230	AZORES Horta - XLNT w/ little 1260 QRM. Was // 693 w/ mellow PP mx. <R>
1259	08	0022	AZORES Horta - PP talk (note: old-plan freq.) <CL>
1259	08	2019	AZORES Horta - pop mx <R>
1259	09	2212	AZORES Horta - PP talk // 693; good. <R>
1260	08	0021	SPAIN Valencia et al (SER) - SS talk o/ WEZE; nasty het Azores-1259 <CL>
1260	08	2018	SPAIN synchros. - f SS talk: SER net // 1584 <R>
1269	08	1945	CANARY ISLANDS Las Palmas very good w/ R. Eccla ID, SS talk, then Muzak. <R>
1269	08	2018	CANARY ISLANDS Las Palmas - "Cadena COPE" net. ID, SS talk <R>

Trans-Atlantic DX from the Newfoundland DXpedition / NOV 1991 (continued)

FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS
1286	08	2052	CAMEROON Yaounde - African mx, AA-sounding talk <R>
1286	08	2232	CAMEROON (t) - AA-sounding talk <R>
1286	08	2359	CAMEROON Yaounde (t) - talk, anthem, s/off <R>
1286	09	2015	unID - f talk in AA-based lang., fair to good. Was not // 4850 (Yaounde). <R>
1287	08	2015	SENEGAL Kaolack (t) - AA vocal, flute mx - not // 891, so prob. not Algeria <R>
1295	09	2032	unID carrier - prob. Angola (1313 loud at the time) <C>
1296	08	0332	SUDAN (t) - Rebia assumed to be the AA commonly heard here way o/Spain. AA news 0332-0336 Z. <R>
1296	08	2013	SUDAN (t) - wild AA mx (violins, flutes, etc.) o/u Spain. Per European info, Sudan's 1500kW is back on. <R>
1296	08	2027	SUDAN Sennar - AA talk LOUD <R>
1296	08	2013	SPAIN/SUDAN/unID - SS & 2 AA's <R>
1305	08	2012	SPAIN - SS operatic f vocal // 1314 <R>
1305	08	2330	unID (Senegal?) African-accented FF talk <R>
1313	08	2037	ANGOLA Lubango - PP talk <R>
1313	08	2104	ANGOLA Lubango - lively African mx, PP talk very good. Angola & Huila mentions, TC at 2130. At times this destroyed Spain-1314. <R>
1313	09	1933	ANGOLA - E. P. do Huila - PP talk by 2 men, weak to fair. XLNT by 2024. <R>
1313	09	2121	ANGOLA - very strong w/ PP teletalk, then mx <R>
1314	08	2012	SPAIN synchros. - SS operatic f vocal // 1305 <R>
1325	07	2040	MOROCCO Safi - classical mx. - XLNT <R>
1325	08	2010	MOROCCO Safi - FF talk <R>
1331	09	2038	unID carrier - prob. Angola on old-plan freq. <C>
1332	08	2008	PORTUGAL Elvas - PP talk <R>
1335.7	09	2226	SENEGAL Dakar - Huge signal at times, mostly in AA or vernacular but w/ news in Afro-accented FF that mentioned "Senegalaise". Not //765. Went off after 0000 Z. Likely former 1304/1305 heard by Kaz from Ogunquit, ME; Connelly from West Yarmouth, MA; et al. <R>
1335.8	07	2030	SENEGAL Dakar - Afro-AA vernacular talk very good. Went off after 0000 Z. <R>
1335.9	08	2006	SENEGAL (t) - poor w/ AA <R>
1335.9	08	2135	SENEGAL (t) - AA or dialect talk, Koranic chant <R>
1341	08	1936	CANARY ISLANDS Santa Cruz - SS talk <R>
1349	08	2005	MAURITANIA Nouakchott - string mx, chant - XLNT <R>
1355	07	2017	SPANISH SAHARA (MOROCCO) - [area of southern Morocco, Ifni, etc.] - huge signal at times w/ mostly AA, some SS & Afro-AA vernaculars. Often jammed by buzzing sound but little jamming when noted on 9 NOV. Best signal (/ less jamming) prior to NF sunset. This is likely an unlicensed station in the disputed Spanish Sahara area that EBU lists as "AOE". <R>
1355	08	2004	unID - AA talk <R>
1359	08	0313	MELILLA - SS pgm // Spain RNE outlets <R>
1359	08	2002	MELILLA - m&f SS talk <R>

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Trans-Atlantic DX from the Newfoundland DXpedition / NOV 1991 (continued)			
FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS
1367	07	2355	ANGOLA Luanda - good // 1088. Mx, then PP announcer. 945 (944) not heard at the time. <R>
1377	08	0325	PORTUGAL Canidelo - huge signal w/ PP <R>
1377	08	1950	FRANCE Lille -FF talk in St. Pierre - 1375 pest slop<R>
1386	08	0010	USSR Kaliningrad fair to good w/ m RR talk. One of the few inland northern TA's noted during semi-AUCX. <R>
1386	09	1922	GUINEA Labe - highlife mx, m FF talk; good <R>
1394	09	2005	TOGO Lama Kara fair to good w/FF // 5047. Some Spain-1395 QRM; no sign of listed Azores stn (likely off).<C>
1395	08	1949	SPAIN Alicante et al-uptempo female vocal, LOUD <R>
1395	09	2250	NIGERIA Uyo - to good peak w/ Afro-EE talk about construction in Africa. <C>
1404	08	1948	GUINEA Conakry - AA-like string mx, o/ unID SS <R>
1404	09	2215	GUINEA Conakry - two m in Afro-FF; good o/ weak unID stn <R>
1413	08	1947	SPAIN synchronos. - SS talk, Radio Nacional ID <R>
1413	09	1925	SPAIN - RNE R. 5 synchronos - SS 'futbol', fair <R>
1422	08	0323	ALGERIA Algiers - AA // others <R>
1422	08	1854	ALGERIA Algiers - FF, good <R>
1422	08	1940	unID (GERMANY or ALGERIA) - rock mx <R>
1440	08	1920	LUXEMBOURG Marnach - EE rock show <R>
1440	08	1925	SAUDI ARABIA Damman - Atop Luxembourg w/ AA // 1521.<R>
1440	08	2000	CENTRAL AFRICAN REPUBLIC Bangui - African mx // 5034.3; battling w/ Luxembourg & apparent SS stn. <R>
1458	08	1919	SPAIN - graveyard-like pile of SS audios <R>
1458.2	09	2223	unID - poor w/ pop mx, m&f FF talk, mx, more chat <R>
1467	09	2252	FRANCE Roumoules - story-reading by f in EE. What is remarkable is that there was an unID stn far underneath w/ rock mx. (Who?) <R>
1475	08	1917	BENIN Cotonou - Afro-FF talk // 4870 SW <R>
1484.9	08	1916	SPAIN - fast SS talk <R>
1485	08	0307	ASCENSION ISLAND - BBC WS relay // 198 kHz noted generally u/Spain. <R>
1485	08	2325	ASCENSION ISLAND English Bay - 500 watts (!) BBC relay (EE // 6175) well over Spain. Much better on 130-deg. Beverage than on the 110-deg. Beverage. Very good by 2344 w/ BBC WS ID. This is worth a try from coastal New England during AUCX.<R>
1492.7	08	1913	IVORY COAST Abidjan - flute mx; XLNT o/ 1494 het <R>
1493	07	2028	IVORY COAST Abidjan - very good w/ African mx. <R>
1493	09	0845	IVORY COAST Abidjan still in well w/African mx & FF talk an incredible 2.5 hours after their local sunrise! Finally gone by 0900. They seem to leave OC on all night & were very easy here, often crushing 1494. <C>
1502	09	2135	ANGOLA - E. P. do Benguela - PP ballad, m PP talk, TC at 2143, song about Angola at 2145! Second carrier here also (suspected Togo, but no audio to compare w/ 3222). <R>
1502.4	09	2054	ANGOLA here w/ PP; Togo not noted at this time. <C>

Trans-Atlantic DX from the Newfoundland DXpedition / NOV 1991 (continued)			
FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS
1503	07	1958	AZORES Lajes Field - Armed Forces R. xln't & alone at times. Generally o/u Spain & 1502 Afro het. Good w/ US mx & ID "AFR - We do it all for you." Four-digit base phone #'s announced in ads. Mentioned 96.1 FM. Listed as only 100 watts (& was considerably weaker than 10kW 1566), but still may be higher power. This might be logged in US at sunset or after 0800 GMT when Spain fades. <R>
1503	08	0155	AZORES Lajes - AFR taped w/ ad for municipal bonds; very good (way o/ Spain) <R>
1503	08	1850	AZORES Lajes - AFR taped w/ID,base 4-digit phone #'s<R>
1503	08	1910	AZORES Lajes - AFRTS w/ US program, good! Listed as 100 watts! <R>
1503	08	2302	AZORES Lajes LOUD w/"96.1 FM" ID, AP net news <R>
1521	08	0112	SPAIN - SS // 1116 <R>
1521	08	1908	SAUDI ARABIA Duba - AA; LIKE A LOCAL <R>
1530	07	2010	MADEIRA ISLANDS - dominant. Madeira-531 noted later.<R>
1530	08	1907	MADEIRA ISLANDS Funchal - PP talk; good <R>
1530	09	2220	VATICAN - II talk mixed w/ PP (Brazil or Madeira) <C>
1538.8	08	1906	SPAIN - f SS talk, messy het <R>
1548	08	0115	ENGLAND London - London mentions, mx = standards, TC <R>
1548	09	0631	ENGLAND Bristol - XLNT w/ BBC R. Bristol ID & jingle<C>
1554	07	2005	GABON - good w/ African talk. <R>
1557	08	1904	FRANCE Nice - rock mx // 1206 <R>
1566	08	1901	AZORES Vila de Porto - f PP talk (news); XLNT <R>
1575	08	1901	SPAIN - m SS talk, good <R>
1584	08	1900	SPAIN - pips, SS talk <R>
1584	09	2149	SPAIN - SER synchronos - US pop song, SS m talk;strong<R>
1593	08	1858	GERMANY Langenberg - new age & light cl. mx, fair <R>
1602	08	2330	ASCENSION ISLAND presumed - peaking o/ Spain w/ US Top 40 & oldies mx, then EE announcer who mentioned things that sounded like he was talking from a military base. When logged by Kaz in 1984 from Maine, they played God Save the Queen & the Star Spangled Banner at 2355; but they've apparently discontinued this. BBC relay on 1485 in very well at the time. <R>
1602	09	0012	ASCENSION ISLAND - EE talk; back-to-back songs;taped<R>
1602	07	2045	ASCENSION ISLAND/SPAIN - US rock mx o/u SS pgm. <R>
1602	07	2140	unID - AA u/ Spain's SS. Noted other times on car radio (at Renew's Harbour) battling WUNR-1600 QRM. <R>
1602	08	1857	SPAIN - m in SS <R>
Pan-American DX from the Newfoundland DXpedition / NOV 1991			
FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS
535	09	0936	GRENADA St. George's - absolutely LOCAL-LIKE w/ Carib-EE religious pgm. w/ talk about Communism. <C>
600	08	0239	BRAZIL - PP talk to fair peaks <R>
610	09	0935	TRINIDAD Port of Spain VPL6 atop CKYQ w/ m&f in Carib-accented EE. <C>
620	08	0233	BRAZIL - PP 'futebol' [soccer] u/ CKCM (NF) <R>

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## Pan-American DX from the Newfoundland DXpedition / NOV 1991 (continued)

FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS
620	09	0901	ANTIGUA St. John's very good w/ BBC news. (Brazil was here earlier.) <C>
640	09	0512	GUADELOUPE Pointe a Pitre good w/ RFO FF news // French Guiana - 1070. Local CBN-640 was off at the time. <C>
640	10	0815	BRAZIL/VENEZUELA/CANADA - PP talk mixed w/ SS talk; both way u/ CBN. <C>
660	09	0930	ST. LUCIA Castries - LOCAL-LIKE w/ talk "Good morning, it's 5:30 on R. St. Lucia." Into C&W-flavored religious program. No trace of relay listed on 625; we believe that this has never been on. <C>
680	08	0220	BRAZIL Sao Luis ZYH885 - XLNT at tune-in (whacking WRKO/CIYQ): easy-listening mx, faded to fair level w/PP announcements including Maranhao & Sao Luis mentions. <R>
680	09	0904	ARGENTINA Mendoza LV6 - a shocker at s/on after national anthem. GMT-3 TC, R. Nihuil ID - XLNT!! - taped. <C>
690	08	0231	BRAZIL Fortaleza ZYH587 very good w/ PP mx, R. Dragao ID. <R>
690	09	0516	BRAZIL - prob. Fortaleza - PP talk, very good <C>
690	10	0408	BRAZIL Fortaleza ZYH587 - LOCAL-LIKE w/ PP religion; way o/ other Brazilian. <C>
690	09	0938	ANGUILLA - The Valley - Carib. Beacon - EE religion XLNT - was not // 1610 <C>
700	09	0517	BRAZIL (2 stations) - one had classical mx & PP ads for cl. mx; other had f PP talk. <C>
700	09	1002	JAMAICA Montego Bay -- Huge signal during "Caribbean stampede": ID "This is JBC Radio 1", then list of freq's given. Was // 850. <C>
705	08	2310	ST. VINCENT Kingstown - pop mx <R>
705	09	0931	ST. VINCENT Kingstown - s/on w/ choral national anthem, R. St. Vincent ID - HUGE SIGNAL <C>
720	10	0026	unID - SS m on phone w/ f caller, possibly religious format; soon covered by Brazilian <C>
720	10	0029	BRAZIL - PP ads, TC at 0030, Brazilian ballad; o/ SS stn. and another PP stn. <C>
730	09	0523	BRAZIL - f PP vocal; fair <C>
730	09	0935	TRINIDAD Port of Spain - good w/ Carib EE religion <C>
740	09	0526	BRAZIL prob. Salvador ZYH446 - PP romantic mx XLNT <C>
750	08	2304	VENEZUELA Caracas - YVKS noted w/ SS talk, Caracas mentions <R>
760	07	2145	BRAZIL - PP news <R>
760	08	0228	BRAZIL Fortaleza - very good w/ PP Fortaleza mention <R>
760	08	2302	GUYANA Georgetown - BRG w/ local sporting news <R>
780	09	0527	BRAZIL Recife ZYI771 - Jornal ID in PP, fair - taped. <C>
810	09	0954	CUBA unlisted R. Reloj - good atop mess <C>
810	10	0406	BRAZIL Fortaleza - prob. R. Verdes Mares strong w/"Hotel California" then PP talk; o/second Brazil. <C>
820	09	0530	BRAZIL Vitoria ZYI232 fair w/ Gazeta ID, PP mx <C>
840	09	1000	COLOMBIA - SS talk, call starting w/ HJ in ID: Most likely HJBI Santa Marta, possibly HJJK Neiva <C>

## Pan-American DX from the Newfoundland DXpedition / NOV 1991 (continued)

FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS
850	08	2300	URUGUAY Montevideo - CX16 good w/ R. Carve ID: on 130 deg. Beverage that nulled WHDH. <R>
850	09	1002	JAMAICA - JBC outlet // 700 poor, way behind WHDH. <C>
850	10	0019	unID - m SS talk (horse racing results), slogan "La Primera Cadena"; good. Possible new R. Vision outlet in Maracay, Venezuela (listed in DSWCI June '91) <C>
860	08	2255	BRAZIL Rio de Janeiro - ZYJ459 - LOUD w/ R. Mundial ID, PP talk & mx <R>
860	09	0942	CUBA/VENEZUELA - R. Reloj outlet o/ YV stn that had ads w/ prices in bolivars. <C>
860	09	0955	CUBA unlisted R. Progreso outlet noted w/ huge signal // 900 at s/on. <C>
870	07	2140	BRAZIL - PP talk <R>
870	08	2243	BRAZIL - PP talk <R>
870	08	2253	ARGENTINA Buenos Aires - LRA1 good w/ R. Nacional Argentina ID <R>
870	10	0819	ARGENTINA Buenos Aires - LRA1 R. Nacional good w/ SS talk about grain prices in Buenos Aires. <C>
880	08	2252	BRAZIL Belo Horizonte - ZYH275 w/ R.Inconfidencia ID, good <R>
880	09	0535	BRAZIL/VENEZUELA - PP atop SS stn <C>
890	08	2242	BRAZIL - PP talk <R>
895	08	2225	NEVIS - rock mx <R>
900	08	2239	BARBADOS/BRAZIL - Bridgetown w/ Caribbean News Round-Up - XLNT - o/ PP talk <R>
900	09	0955	CUBA R. Progreso outlet // 860. <C>
950	08	2149	BRAZIL Belo Horizonte - ZYL212 w/PP talk <R>
950	08	2243	BRAZIL - PP talk <R>
960	08	2245	BRAZIL - PP talk mixed w/ CHNS <R>
960	09	0508	BRAZIL - PP talk u/CHNS Halifax, NS <C>
970	09	0540	VENEZUELA (city?) - SS net ID "R. Cadena Mundial" & "en Venezuela la radio es Mundial"; adult contemp. mx <C>
980	09	0507	BRAZIL Brasilia ZYH707 - XLNT w/ PP news <C>
990	09	0717	BRAZIL Rio de Janeiro ZYJ461 good w/ new R. Record slogan, nice PP mx. <C>
990	09	2105	BRAZIL - presumed R. Record (ex Ipanema) - m PP talk mixed w/ CBY; SER Spaniards phased. <R>
1000	09	0506	BRAZIL Sao Paulo ZYK522 - very good w/ PP talk <C>
1010	09	0505	BRAZIL Fortaleza ZYH625 - PP; huge signal <C>
1010	10	0810	BRAZIL Fortaleza ZYH625 - R. Jornal "o Povo" - lucky to land on freq. at moment of ID. Good signal. Frequently loud, almost always clobbering WINS. <C>
1020	09	0851	VENEZUELA La Asuncion YVRS - XLNT w/ Mundial Margarita ID, just as monstrously loud as it is on Cape Cod <C>
1030	08	0347	BRAZIL - PP talk o/u WBZ <R>
1030	09	0545	unID - SS w/ cl mx mix w/WBZ&Brazil (prob.Argentina)<C>
1030	10	0400	ARGENTINA Buenos Aires - LS10 R. del Plata good signal o/ WBZ (!) & Brazil: pgm. promo for next day w/ 6 pips at 0400; bit of talk, then "Radionoticias del Plata" news at 0401 and "Radiodeportes del Plata" sports at 0402. <C>

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Pan-American DX from the Newfoundland DXpedition / NOV 1991 (continued)

FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS	
1040	07	2310	BRAZIL - PP talk	<R>
1040	08	0345	BRAZIL - PP very good	<R>
1040	09	0435	BRAZIL Sao Paulo ZYK537 - XLNT w/ PP talk	<C>
1040	09	0552	BRAZIL Sao Paulo ZYK537: XLNT - mentioned Sao Paulo	<C>
1050	09	0551	BRAZIL - excited PP talk sandwiched betw. 1044&1053	<C>
1060	09	0503	BRAZIL - PP talk	<C>
1060	09	0705	BRAZIL Mossoro ZYJ597 - taped w/ 2 good Tapuzo ID's, PP talk mentioning freq., power (5 kW), and QTH of Mossoro.	<C>
1070	09	0222	FRENCH GUIANA Cayenne very good w/m FF talk.	<C>
1070	09	0501	FRENCH GUIANA Cayenne - huge signal (way o/CBA) w/news & wx. for France, GMT-1 (Paris time) TC. Was // 1090 Martinique at 0501; separated at 0512. Noted // 640 Guadeloupe at 0512.	<C>
1090	09	0219	BRAZIL - good w/ PP talk	<C>
1090	09	0433	BRAZIL - PP talk	<C>
1090	09	0502	MARTINIQUE - FF talk: RFO net news //Fr. Guiana-1070	<C>
1100	09	0437	BRAZIL Sao Paulo ZYK694 - XLNT w/ PP talk	<C>
1100	09	0901	ANTIGUA St. John's ZDK - LOCAL-LIKE w/Carib. EE s/on	<C>
1110	09	0655	BRAZIL Joao Pessoa ZYI786 taped well o/SS QRM w/ PP talk, ads, song at 0655. Tabajara ID's noted 0658-0701. This, like many ZY's, ID's without using "Radio" in their slogans & jingles.	<C>
1110	10	0248	BRAZIL (ZYI786?) - PP good	<C>
1110	10	0352	BRAZIL - excited m PP w/ promo or ad, name "Emilio Guarda" emerged from blob of signals briefly.	<C>
1120	10	0248	BRAZIL good w/PP talk. Also noted around 0329 Z.	<C>
1130	07	2341	BRAZIL - PP pgm in net // 1280	<R>
1130	09	0440	BRAZIL Rio de Janeiro ZYJ460 great w/ PP "madrugada ... R. Nacional" mentions; atop other PP prob. Belem	<C>
1130	09	0853	BRAZIL Belem ZYI531 fair to good w/Marajoara de Belem ID in the clear after previous QRM (ZYJ460 Rio de Janeiro) faded due to Rio sunrise. WNEW didn't show until just before dawn at Cappahayden, NF Bev site.	<C>
1150	10	0347	BRAZIL Belo Horizonte ZYL283 - R. Globo faded up w/ ID & jingles, Brasopop mx, Mato Grosso mentioned; briefly good.	<C>
1160	08	0058	BRAZIL Vitoria ZYI202 fair w/ two Espiritu Santo PP mentions. Often to very good strength.	<R>
1160	09	0947	BERMUDA Hamilton VSB3 - very good w/ sports from BBC cricket correspondent.	<C>
1170	08	0106	VENEZUELA - SS Venezuela mentions	<R>
1190	08	0009	BRAZIL - PP 'futebol' game; fair	<R>
1190	08	0120	BRAZIL - PP 'futebol' // 1280	<R>
1200	08	2153	BRAZIL Fortaleza ZYH585 - weird PP vocal (almost African-sounding) - LOUD. "Pipeline" to eastern Brazil on 130 deg. Beverage near the Renew's lighthouse. Has been logged at W. Yarmouth, MA.	<R>
1200	09	2100	BRAZIL Fortaleza ZYH585 very good w/PP family pgm	<C>
1200	09	0646	VENEZUELA Caracas YVOZ noted behind massive Brazil (ZYH585) OC: SS opera / cl. mx, Radiotiempo ID.	<C>

Pan-American DX from the Newfoundland DXpedition / NOV 1991 (continued)

FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS	
1210	08	0034	VENEZUELA Barcelona YVZT -R. Anzoategui ID, fair-good	<R>
1220	09	0003	BRAZIL Rio de Janeiro - ZYJ458 - LOUD w/PP talk, Globo ID. Logged in US (even in Hawaii)	<R>
1240	09	0445	BRAZIL - PP pop mx, nice	<C>
1240	09	2110	BRAZIL (city?) - PP 'futebol', mention of "A Voz do Brazil" (net ID?). Sao Paulo was one of the teams.	<C>
1260	09	0010	BRAZIL Sao Paulo ZYK688 - religious pgm. in PP-XLNT	<R>
1260	09	0330	BRAZIL Sao Paulo ZYK688 - good w/ local announcements & R. Mulher ID.	<C>
1280	07	2332	BRAZIL - PP pgm in net // 1130	<R>
1280	08	2218	BRAZIL Rio de Janeiro - m&f PP talk	<R>
1280	09	0555	BRAZIL Rio de Janeiro ZYJ455 - huge LOCAL-LIKE signal w/ Tupi mention. Most high-power Brazilians were virtually local-like (e. g. 980, 1040, 1100, 1220)	<C>
1290	09	0750	BRAZIL probably Sao Luis ZYH888: ad with apparent Sao Luis mention.	<C>
1290	08	2233	VENEZUELA / BRAZIL - Puerto Cabello YVLF w/ local ads / SS talk briefly atop; then Brazil (in PP) took over.	<R>
1290	09	0949	VENEZUELA Puerto Cabello YVLF w/ ID; very good.	<C>
1300	09	0020	BRAZIL - PP talk to good peak, taped	<R>
1300.6	08	0123	BRAZIL - unID ZY w/ PP talk & mx; 1300 het notched.	<R>
1300.6	09	2113	BRAZIL - PP talk poor to fair; another Brazilian right on 1300. Fortaleza poss. the 1300.6 stn.	<C>
1320	09	0419	BRAZIL - QRM-garbled PP ID mentioned "ondas cortas" (shortwave) outlet.	<C>
1330	09	0430	BRAZIL Belem ZYI533 fair to good w/ Liberal ID in PP	<C>
1360	09	0557	BRAZIL Rio de Janeiro ZYJ464 - Xlnt signal at times at end of PP religious pgm. "LBZ" ads and Guanabara mentions.	<C>
1370	09	0415	BRAZIL - o/QRM w/ PP talk, Regional jingle	<C>
1370	09	0613	BRAZIL (2 stations) - one had tropical mx & announcer who mentioned Goiania; the other had PP talk.	<C>
1370	10	0318	BRAZIL - Brazilian mx, no ID before fade-out	<C>
1380	09	0342	BRAZIL - PP religion - LOUD	<C>
1380	09	0559	BRAZIL - PP; trashed by Portugal - 1377	<C>
1380	10	0315	BRAZIL - PP teletalk w/ f announcer; she mentioned "Molina Rodriguez" at 0316 (perhaps her name ?) - fair, but faded out fast.	<C>
1380	10	0330	BRAZIL Recife ZYI773 good w/ two clear R. Continental de Recife ID's, mentions of "a musica, a cultura", m PP religious talk. Tricky to follow at times because another Brazilian w/ rel. mx faded in & out.	<C>
1390	09	0827	BRAZIL (2 stations) - PP talk o/u PP f vocal	<C>
1400	09	0350	BRAZIL - PP talk, fair	<C>
1430	09	0758	BRAZIL - PP talk	<C>
1430	09	0821	BRAZIL - PP talk	<C>
1430	09	2211	BRAZIL Mossoro ZYJ604 - XLNT w/ "do Mossoro" mention, US Top 40, then PP song.	<C>
1430	09	2330	BRAZIL Mossoro ZYJ604 - XLNT peak w/ ID as R. Libertadora Mossoroense.	<C>



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Pan-American DX from the Newfoundland DXpedition / NOV 1991 (continued)			
FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS
1440	09	2246	BRAZIL Rio de Janeiro ZYJ469 - good w/ pop mx & ID "R. Rio AM". <C>
1450	09	2200	BRAZIL - PP talk poor <C>
1460	08	2215	BRAZIL - PP talk <R>
1460	09	0816	BRAZIL - PP talk & mx, poor <C>
1460	09	2234	BRAZIL - PP m vocal <C>
1468.8	08	2338	BRAZIL unID Braz. GY'er here, fair o/ distant storm QRN. R. Nacional mentions fr. PP 'futebol' net. <R>
1470	08	2312	VENEZUELA Carupano YVSY - R. Vibracion ID, fair <R>
1470	10	0259	BRAZIL - fast PP talk, play-by-play sports, (think) Sao Paulo-vs.-??; baby product ads. No ID's heard between 0259 & 0305. Fair while it lasted. <C>
1480	08	2301	PUERTO RICO Fajardo - WMDD good w/ ID mentioning Fajardo <R>
1480	09	0303	BRAZIL - PP talk to good peak <C>
1480	09	2157	BRAZIL (city?) - PP song about Maria, faded down during ads (& probable ID per Murphy's Law of DX). Mentioned what sounded like Vale de Curuca. We don't think it's ZYI911 Piracuruca, but not sure. <C>
1490	09	0252	VENEZUELA (t) - SS talk (Caracas or Maracaibo likely) <C>
1490	09	2200	BRAZIL - PP talk poor <C>
1500	09	2138	BRAZIL (2 stations) - one had excited m PP sports talk; the other had PP vocal mx & f announcer. <C>
1510	09	0813	BRAZIL (2 stations) one w/ song; one w/PP talk - both topping usual WSSH-1510 SS stuff (when on BrazilBev) <C>
1520	08	2306	VENEZUELA Guatire YVIC - R. Bonita ID <R>
1520	09	0353	BRAZIL - PP pgm weak o/mess <C>
1520	09	0832	BRAZIL - PP talk & mx, poor <C>
1530	09	0842	BRAZIL - jumble of several PP stations <C>
1530	10	0804	BRAZIL - weak w/ apparent m PP talk (s/on announcement) <C>
1540	08	2320	BRAZIL - PP talk <R>
1540	09	0252	VENEZUELA (t) Coro the likely source of SS talk here <C>
1550	09	0300	BRAZIL Areia Branca ZYJ606 - R. Gazeta do Oeste ID, LA rock, PP ad for something in Arieria Branca. <C>
1550	09	0803	BRAZIL unID city - s/on o/ second ZY. ID taped; after numerous replays no definite conclusion (sounded like R. Cultura (or) A Culturida ... AM 1550 kHz. <C>
1550	09	0810	BRAZIL Areia Branca ZYJ606 - Gazeta ID, PP mx <C>
1550	09	2130	BRAZIL - 3 Brazilians battling it out here <C>
1550	09	2257	BRAZIL Areia Branca ZYJ606 - Areia Branca mentioned, R. Gazeta ID, romantic PP mx, clear local ad - very good. This is probably the best bet for US reception of a Brazilian graveyard since Areia Branca is located right on the coast just northwest of the northeast corner of Brazil and 1550 has no strong LA QRN. <C>
1560	08	2312	BRAZIL - PP talk // 1590 <R>
1560	09	0230	BRAZIL Pentecoste ZYH622 - ID taped (see also 0800Z) <C>

Pan-American DX from the Newfoundland DXpedition / NOV 1991 (continued)			
FREQ.	DAY	TIME	LOCATION, PROGRAM DETAILS
1560	09	0800	BRAZIL Pentecoste ZYH622 poor w/ ID R. Difusora Vale de Curu getting through clearly. Taped. This may have been s/on. Two PP's noted here on 10 NOV at times. <C>
1560	10	0800	BRAZIL - accordion mx, Brasopop later. Fair; faded. <C>
1570	08	2308	TURKS & CAICOS - Atlantic Beacon LOUD w/preacher <R>
1570	09	2133	BRAZIL (city?) - PP teletalk, then ID sounding like R. Cultura (not sure after several listens to tape) <C>
1590	08	2238	BRAZIL - m PP talk 'futebol' (soccer) game <R>
1590	08	2312	BRAZIL - PP talk // 1560 <R>
1590	08	2350	BRAZIL - PP talk (not on futebol net) <R>
1590	09	0626	BRAZIL Sao Carlos ZYK762 - PP talk, Realidade jingle, R. Realidade ID. Also noted a "de Sao Carlos" mention at 2121 on 09 NOV. A second Brazilian here too. We were amazed to find (at least) bits of PP audio on every Brazilian graveyard channel (1450-1590 kHz) ! Some channels had up to 3 stations each. Note these use 1kW day / 250 watts night ! <C>
1590	09	2121	BRAZIL Sao Carlos ZYK762 "do Sao Carlos" mention <C>

All in all, I would say that this trip was a resounding success: it exceeded expectations except on the high-latitude Europe / Middle East / Asia routes. Of course, the trip occurred during one of the greatest auroral disruptions of 1991 (comparable to that of late March). This no doubt assisted our African and Brazilian loggings (as much as it ruined Scandinavia, Iran, India, etc.). Neil and Jean are custodians of the MANY tapes of our receptions. After tapes are analyzed and after others read and respond to this article, an update article will probably be issued to resolve unidentified receptions. After a while (maybe a year or more), it is hoped that we can offer an organized, narrated series of tapes of the best and clearest catches as a DX "product".