DXing From Jan Mayen: 1981-82 by Geir Stokkeland

Jan Mayen is an Arctic island, located around 71°N 08° 30° W. The Nutch Captain Jan Jacobsz May, on board "De Goude Cath", has been awarded the discovery of the Island, in 1614. At the time, when the Dutch catched Greenland whale in these waters, they called it Mauritius Elland. Other names given by different seafarers who have claimed discovery, are Sir Thomas Smith's Island, Trinity Island, Island Richelleu and "het Eylant in Cuestie". Norway erected a weather and radio station on the Northeast coast in 1922, then distroyed by war actions in 1940, Norwegian and US forces moved into the vallyes of the centre of the Island, and kept it the only free part of Morwegian territory through torld bar II. After the war, the installations were moved to the Northwest coast. In 1959, Norwegian and US authorities erected a Loran-A (later Loran-C) navigational system on the Southeast coast, and built an airfield. In 1963 the meteorological station also neved over to this area.

Jan fayon definitely has one of the world's worst climates. Fean temperature of the year is around zero (elsius, with last season's recorded high +9°C (in August), low -19°C (February). During winter intense storms are frequent, with winds at times peaking past 70 knots (i.e. hurricane). Drifting snow is a problem most of the winter. But from time to time periods of excellent weather could also occur. The dark season lasts from late Lovember until early february, with only two hours (approximately 10-12 UTC) of daybreak daylight available.

Jan fayen's soil is volcanic, with the 2277 metres high Beerenberg volcano - one of the vorld's most beautiful and picturescue volcano bowls - dominating, and last erupting in September 1970, covered by glaciers stretching from the top into the Atlantic. Becrenberg occupies the northern past of the island, while the southern is covered by Jouland and hills. Jan Sayen is 372.5 sc. km. blg, stretching 53.7 km. NE2-5t, and with width verying 3-15 km. The sea off the coast is coun to 3,000 metres deep, and very rough; during winter many times covered by drifting sea ice - and in spring a multitude of smaller icebergs may be found stranded on the beaches. The beaches, with lovely dark black sand interspersed with clivin crystals - and lots of old driftwood - would be another Hawaii if the climate was warmer. A mention also to birds - one of the richest reservoirs of this wildlife in the world.

The practical side of DXing on Jan Fayen is far more difficult than any other place I know of. There are two main obstacles — the weather, and commercial radio interference/splash. There are many local "citility" transmitters — the "worst" (in our sense of the word) being the Loren-C system, with 250 kt on 100 kHz longwave, acting like our local woodpecker (about the same audible result) all across the AF band. The toran facility also has a 1 kt HF xmtr for link purposes with other loran chain stations, causing some HF splash.

Our two LF beacons, the Consol system on 332.5 kHz (LMC) and air beacon on 362 kHz (JAN) — both powered at 1 kk — also are troublesome. LMC and JAN spread their harmonics, upwards including the 4th, making it impossible to hear anything on or near these frequencies during transmission periods.

The third transmitter system is that of Jan Nayen Radio/LMJ - the coastal and meteorological radio station, where I worked myself. The main NF frecuencies - 394.7/435/500 kHz (CW) and 1722 (not 2182) kHz - caused some splash all across band, not harmonics only. A 1.5 kW HF xmtr for telephone/telegram link with horsely from LMJ was the source of come HF splash.

To become the subject of FAN from all or some of these sources, you need to be located not too far out. Lithin a range of say 20 km. from each utility xmtr CRN is heavy, and heavier the closer you get. Reing J km. from the 200 metres high Loran-C xmtr tower, and only 500 metres away from the 50 metres high twin xmtr towers of LNJ, was a difficult location. Fost below 100 kHz, near "normal" above 1500 kHz where only LNJ's 1722 kHz splashed (luckily only when they were on for traffic exchange, usually up to 30 min. or so per day in total).

The CTH I think of now is my "base" at Helenesanden, on the east coast of Jan Mayen. 100 metres from LMJ, I had to get transport or get out there another way (from our housing facilities on Trollsletta, 3

km. further south along the southeast coast) every time I wanted to go DX. The housing fecilities were too close to the Loran-C facility and provided less antenna space than needed for a beverage. So I had all my HAM (JX5VAA) and AT DX goar in a tiny cabin (2x4 mtrs.) near LMJ. Then winds ghustad well into the hurricone range during the worst winter storms, I just took off headsets - was impossible to hear anything anyway. No ventilation or isolation - had to use a 2.4 kW fan oven for heating, and trust ventilation was DK with a few holes in the wall.

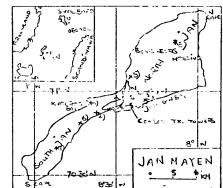
I had a total longth of 800 metres wire directed 270° into the hills of central Jan. Towards the end of the aerial I had to ascend a very steep mountainside to get to the point where I fastened the end of it — thus the terrain for big-space antennas was fairly difficult.

One more QTH was tried with succes, that of the "Puppebu" cabin in Kvalrossbukta on the west coast, lith a 5 kW superb power supply and a great cabin in a bay surrounded by mountain cliffs on three sides — the ocean to the SW being the 4th — DX there was good. The only problem was how to get there — high winds, drifting snow, and much of it also on the ground brought around the ability to trink.

Evaloss was a bit more remote, and shielded for utility TRN — though still partly troubled. The big difference from the cast coast was radio propagation. I got the first taste of this on my first combined MAF and AF expecition to Kvalross September 5-7. First of all, I recorded all GRF (greenland) outlets heard all scason - 570, 650, 750 and 1100. 1100 like a neighbour local text, lots of EC (i.e. East Coast) North America; 770 VADC, 850 BHON, 830 BCDS, 920 CJCH, 960 CHNS, 1050 WHN, 1220 CKCW and 1350 CFYQ - all these never heard on Jan Rayen's eastern side. Stations further west heard exclusively on this trip, and not again all scason, were 900 CJCR, 1100 WHME, 1310 CKOY, 1430 KCZW, 1500 WTCP, 1510 WAC, 1520 KCWA, 1540 WFTR and 1590 WAKR. Last, stations heard in Kvalross which were as likely - and heard again at Helenesenden: 1000 CFLP, 1120 KCWA, 1130 WCXI, 1130 WINN, 1190 CWO, 1220 WGAR, 1320 CFGM, 1370 CJWW, 1420 CJVR, 1440 CFGC, 1460 KSO, 1500 WLOV, 1520 WRW, 1540 KXEL and 1570 CKLM. Remaining, 1030 WBZ made it once only to the cast coast while a regular in Evalross - and also 1570 CKLM likewise.

Relenesancen provided no North American DX until the first day of Povember. From Europe stations of interest before this, were 854 Devon Air Redio, Torbay, 1035 Morth Sound, Aberdeen, 1134 ARD Redio, Dublin, 1170 Radio Victory, Portsmouth, 1170 Swansea Sound, 1314 Sonic Indep. Radio, Dublin and 1359 Cardiff Bc. 1313 in // with 1305 provided Poyneside Radio, Progheda, with xint signals during July/August. 1332 Hereward Radio, Peterborough became a semi-local in strongth, and Vatican Radio's outlet on 1611 (xmtr located inside the Vatican City State) was first noted Sep 30th. 1220 Radio Globo became the first TA noted on July 15th; Radio Atlantico, Las Palmas the first African August 5th, and 1341 Radio Kuwait brought xint western style wasic way over 86C Ulster a few evenings during Sep/Cct.

An unseccusful trip to Kvalrossbukta Oct 21-22 started off the dark season DX. 930 CJYC with a short fade-up early on the 22nd was the <u>only</u> AR station all across the bend that morning (I suppose many would find that a surprise, but it is true). Then, the first TA peak from Melencemental come on Mov 1st. 1170 KJMP become my first Alaskon, at 0014 MJC.



Index:
1) "Puppebu", my DX HTH in Kvalross
2) My DX GTH on Helenesanden, near the
Meteorological Station

3) Location of the first weather station from 1921

4) Location of the world war II weather station

5) Weather station location from after the war until 1963

6) Current location of our housing headouarters near Batvike

 One of two German warplanes crashing during last world war

8) Highest peak of Beerenberg-2277 mtrs.

From Canada, 1260 CFRN in Edmonton was mid-day DX at 1156 (all times rentioned are UTC), and 1430 AFRS Thule, Greenland, IDed "Your sowurce for information and entertainment - American Forces Radio Thule" at 0900. Additionally, 1570 CKLQ made it on Dov 2nd. CKLQ still means something special to me, as it was the first forth American I heard, in Kvalross on Sep 5th. The xint off-air recording of CKLQ here is probably the best quality one I have from this season.

From Europe this period, I note the newly on-air 1035 kest Scund, Ayr, and 1431 Escex Radio, Southend, 1458 had a surprise for me Fov 2nd, as EBC Radio Carlisle, thitcheven site, IDed. thoûd believe London was way out. Later 1458 became a very fine frequency providing all BBC locals here except for Birminghem - weird or not. Fention also goes to 1323 Poyneside Radio, now split from its break-out branch on 1305 Community Radio Drogheda - the latter first heard Fov 3rd.

rid-November provided no news from North America, except a brief layer showing off 1430 Thule on the 10th. From Europe 846 Radio Nova, Rublin, made it on the 4th, while the new 990 880 Radio Aberdeen was first in on the 13th.

Towards Nov 20th things got better. 1359 Mercia Sound, Coventry, Towards Nov 20th things got better. 1359 Mercia Sound, Coventry, was of interest on the 17th, and on the 18th 1430 AFRS Thule was there again - stronger than ever. Under Thule was CJXX Grande Frairie AP, and 1170 trought KJLP - what was to follow? The 19th had a terrible snowstorm, impossible to get out to DX - but on the 20th 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball from 680 KBCL Parrow AK was in. Programmes including live basketball f

The Tov 21 - 22 mask also had DX such as 660 KFAR, 750 KFID, 1000 MGC., 1050 LFSP, 1060 CKSA, and KANC, 1090 KING, 1160 KSL, 1330 CKKS, 1380 KANC (remembered as the station I only heard once - but not membere to record), 1460 KLTC, 1470 KLSL, 1550 KVAN and 1560 KKAA. 1530 KFBK was in, as were 1140 CKXL and 1200 CFSM. All these three last ones were to be condition indicators throughout the season. I will return to this later. In addition to the above, many more "common" North American stations were logged this period.

The next isolated NA (North American) peak was Nov 30th, but while the previous was contried on the west coast/NW prairie/Alaske, this day brought wain spot conditions to the Lakes, with 1130 tody, this day 1190 WAWO and 1300 PERE indicators. GEO KBRW Barrow AK, 1180 KMGX, 1140 CKXL, and 1410 CFUN were there to spread it all.

Dec 4th hed a short peak to west coast/M preirie, with 1130 CKLX, 1140 CKXL, 1250 CKOM, 1250 CKRM, 1410 CFUM and 1550 KVAN. The rest of December had very dull conditions, with only 1368 BBC Badio Lincolnshire being of noticeable interest from Europe. Leak peak conditions to NA recorded on December 14, 16, 19-20, and 27th. But nothing of special interest.

Celebrating Christmas and New Year in a traditional Arctic way, with 1260 Centre Radio, Leicester, in on the 27th — set everything ready for the 1962 half of the season. AM conditions in general peaked on Jan 3-4, with 531 Sunshine Radio, Dublin, pleasantly making it on the 3rd (and later also on the 6th); NA conditions peaked on the 4th — with KDRW, CFCt, CJCA, KANC, and Essex Radio's new 1359 outlet in Chelmsford heard.

Fost of early and mid January 1962 continued without any major necks in propagation. Jan 6/7-10th proved a relatively good period. From Europe, the new 1260 Radio test in Eristol was heard Jan 7th. 646 Radio towa, Dublin, was noted back on the air Jan 8 after its recent stormy tower collepse, and on 1005 Radio Dregheda was identified — yet another change of name. Jan 8th also brought in 600 CFTC, 720 KOTZ Kotzebue AK, 980 CKRM, 1200 toAI and 1500 KSTP from MA.

Jon 14th had 1030 U62 in on Jan Mayon's east side - a surprising logging taking into consideration the advantages Kvalross has for this area. Jan 16th obviously marked a change in conditions, according to my logs. 1485 NRK Longyearbyen was heard again - the second and last time of the second only. And during our local evening one of my big winter surprises occured - at 1917 UTC I noted 680 KBRW with good signals! This is the only occasion on which I have heard AC signals from North America this time of the day. Obviously this is due to the signal path being in total darkness, and skip thus longer. The same is the case with 1430 AFRS Thule, that from now on

until late February was audible 24h a day, weaker or stronger.

500 CKY and 890 bis, along with 1420 b0C, brought a good opening to the Lakes early my local morning, Jan 23rd. Later, towards midday, condx coved test with 1110 CHQT providing xint reception around 1100 UfC. On the 25th the Lakes peaked weakly, with WCXI dominating on 1130 - something thay seldom did this winter.

On Jan 21st, I'd been over to Kvalress, restoring the power supply with fuel - for a future expedition. The chance soon was to occur. Checking the band on the 28th was rewarding. Beside the "normal" stations from North America (NA), 970 KIAK, 1070 CKST, 1190 KEX and CFSL (NCNO not there), 1280 keTC, 1320 CHCM, 1360 KMO, 1470 CJVB and 1570 CHUB clearly indicated something was up - so I probbed the receiver, some food, cun and amountain and walked the 7 necessary kilometers over the hills to Kvalross.

In Evaluar, 1465 AFRS Kaflavik was a very solid daytime and early aveing station, before more widespread reception set in 0-penings to 20 °4 term past 2000 UTC, with 1490 CJFC pleasantly industrying just an hour later. Propagation dropped rapidly over the next 48 hours, but stations in - indicating typical reception condx exertioned in Kerlious - were such as: 780 t58M, 950 CKNB, 1050 CHW, 1170 t°FW, 1170 t°FW, 1270 CJCS, 1410 CJCO, 1510 t°FW, 1050 CKWR. On 1/20, AFRS Fondre Streafjord, Greenland, came through on the 28th at 1929 - first time of the scason. 1100 CRF, Angmagssalik, had a powerhouse signal 24th a day (the carriers of CRF are always on, for your infortablen), and the shortwave outlet on 3999 kHz also had a good signal. (utside NA, 950 Radio Visión, Caracas, and 1555 Facio Coylan ware rare catches.

From January 30th, conditions dropped to what I think was to be a record low of the 1001-02 season. During the first days of Fibruary, Polish AT transmitters reactivated, blocking several interesting Region I/III channels. On Feb 5th 828 Chiltern Radio, Sunstable, and 1594 CSC Radio Tounton (with relay from Bristol) were in as new, while the Feb 6-9th night had a weak Euro opening to indicate the end of this radio blackout, thile at work at LMJ on the 11th, with receivers not able to pick out splits, I noted serveral thas betting split Europeans - thus things were improving repidly. Siving night-time DX on isolated try the Feb 11-12th night proved interesting. A fact-in around 0540 UTC, with a climax in propagation beginning around 0800, continuing till 1000. In were such as 1020 KOKA, 1040 LHG, 1150 CKOC, 1180 LHAM, 1190 CFSL, 1150 WYNE, 1250 CHSM, 1280 CJSL, 1380 CKLC, 1390 CFOO, 1420 KTOE, 1500 WLOV, and 1600 KCRG. This shows condx were based fairly east. And of special interest this morning of Feb 12th, was 1480 kHz - releasing both UCIN Cincinatti ON and KAUS Austin MN. Both are rare catches - even in the Nordic countries.

The next night, NA fade-in come around 0200, and were relatively spread until 0400 - with 1220 LGAR and 1210 LGAU in at good levels - than condx changed, and cant fixed on the Canadian province of fuebor, after thich acting hopeand. On Feb 14th the opening was headed N.L., with 1230 CLFC being a pleasant surprise. CFUN and KJRP proved condx, though nothing clse of interest got thru. From Europe, the 14th brought the first heard test from new 1107 Moray Firth Radio, Inverses.

The next few drys 'rought foir condx to most areas. ARK's new 1314 kmz site on Kuitsey island near Stavenger made its first test late on the 17th; while 1167 morey Firth Fadio out in good signals all day long - proving it probably has the best relative coverage of all TPA stations currently on air.

NA conditions the 17th/18th were based mostly west of the Lakes, towards the Facific coest. Logged were such as 1080 CMSA, 1150 CMX, 1290 CMRE, 1370 CMK, 1440 LIZM, 1420 EOC, 1430 CJXX, 1480 CMER, 1530 CISV. 1480 MEE Richmond VA, a sharetimer, proved a surprise on the 18th, a sproradic also experienced on the 13th when 1110 uncovered MBT.

Tourids the end of the worth, two MA peaks occured - the first Fabruary 27-24th, On the 22nd in tere 670 bPAP, 240 MRAS, 1310 CICK rost likely, 1370 CULV and CFCK, to name a few. On the 22nd: 1220 CUCC, 1260 CUPB, 1330 MKKR, 1400 CMCA and 1570 CMTA. On the 24th 1170 MUFF was there - as well as 1340 GMC and 1260 CUSL. that was more difficult to pick out that remning was 1400 CFLO, 1230 CUCK, and 1340 GFVK - so I can not at all sure they were there, although I do believe so.

Feb 26-28th rieved to be a feir period, also, to sensations, though, 1400 CHCA Stattler AB was there again on the 26th, and 1220 CKDA made it as one of the last new once of the season on the 28th. On the first morning of March 1420 AFKS Sendre Stramfford made its 2nd and last appearance on the Jan Payer AM band curing the 1881 -

Furth 5th-6th was next time around. A sported layer around 1100 UTC on the 5th brought 1260 CFEN and 1430 AFRS Thele in, and on the 6th 560 CFEC, 1000 CFEP, 1000 CFEN, 1120 WDGY, 1140 CWEL, 1290 CFEN, 1410 CFEN CRE 1876 CWEF were thru.

The ecoson drew near to a close, but still the final remained. Late Farch 5th 1314 55h Kvitswy was on again all aight, testing. The 14th had Thule in again on 1430, unile the 16th lifted 1700 GFRN and 1420 GJRR — the two last Canadians of the season. March 20th brought on the season's last US AM station — 1516 KGA Spokane W. — and on the 25th it all ended with 1430 AFRE Thule, fading out with the 480 happy hour" program past 0600 uTC.

That's a look at AF DX season no. 1, 1981-82, on Jan Mayen. Looking back, remonsering that was - I have a mixture of furlings. I could have done acre, but on the other hand, local radio GRN, weather condx and work continuously regulated PX - and such things nover tere like that you tays are used to back home. Experience and reliable equipment - also et omiga on Jan Seyen. Exceptione to observe, judge and forecast weather - and compant that need a minimum of medicance, no the island is one of the most isolated in the part during winder.

Another crossroad of whinking is the Af proposition experienced in general on Jan Feyen. At a longitude of 71 north daylight during winter was very sparse. Additionally, the latitude of 8.30 wost meant purely local conds different from what I have excerienced at home in horsey. Being around two hours behind horsey in true local time, meant that theoretically Jan Feyen should receive daylight two hours later during meaning, etc. During the dark season and high Arctic summer of his controlly indicates in which the effect of the following had darkness longer during someing than Sendinevia, the Americas is in derence - and thus wore time is scalingle during which the Americas is in derence - and thus wore time is scalingle during which the Americas is in derence - and thus wore time is accidence during which the Americas propagation to Jan Payen from e.g. the Tritich Islas has to be rejerced completely different - from Jan Layen this was 2%, thile furgrands must have these seri-locals, more or layer.

judge those sari-locals, more or less.

Lext, proposition over the Forth Fole tree. The difference in AC reception between the Fost and east coest of Jan Fayen was very surprising. Becentur the map distance is only 3 - three - kilometres (air route) from Evelroschukta to Lelenesanden. I need more data to establish a good theory, but my current idea is that East Coast MA signals is received from south est through the Fennack Strait to west coast Jan Mayen - thus the mid-island mountain range block these signals from getting further. Alacks and west coast MA signals never got out to Myalross, so they mus propagate along a different route across the Polar basin, further east. How prairie signals propagate is an open issue to me, but I do not believe that a glance at an aziruthal map conteredon the Worth Fole or Jan Mayen itself to find the slartest path for propagation, gives a satisfying ensert.

Lest, 2 words on the 1931 - 32 condx variations. Evein Jakob Ballarud, located on the coast of contral horsey, described "his" Aft season towards worth "werica in an article in DALL's "DX-Bewe" this spring. The noted condition peaks he noted local winter were very often the reas as an Jan Edyan, by theory thus is that our two locations provide very similar Transmittantic/-Polar AM DX. 2 Cally further observations will judge.

This is written as a new OX become is getting under way. I presently have commenced my new job at Bjernoya Radio/LIB — here on the north slope of Bear Island. My FRG-7000 and -7700 receivers are hard to ensure another DX season — together with a good sorial along the cliffs.

Promised is a 1982 - 83 Bjornaya DX round-up in one year from new. Good DX:

8jørnøys, Suly 25th 1982.

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1250	CFYQ Gander NF	Sep 6	
136C	KAO Tacoma YA	Jan 2B	
	WGEE Green Ray WI	Jan 23	
1370	CFCK Vestlock AB	Feb 18	
	CJUW Saskatoon SA	Sep 5	
1275	t f?-3 St. Fierre & Figuelon		
1330	SYLC Kingston ON ValC Everett WA	Feb 12	
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1410	Paris Indiana SC	Nov 20	
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	(Kungerdlugsouag)	Jan 28	nich newes have been
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	121111111111111111111111111111111111111	Jan 9	
	MLQV Detroit MI	5ep 6	
	LTGP Eachington OC	Sep 6	
1510	KGA Spokane MA	Jan 28	
4	LLAC Neshville TN	Sep 5	
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45.00	the state of the s	Sep 6	
1530	CISV Winkler - Morgen MB	Feb 18	
	CISV Winkler - Morden MB KF9K Sacramento CA	Feb 18 Nov 21	
1540	CISV Winkler - Morgen MB	Feb 18	

1550 1560	KVAN Vancouver WA Nov 21 KKAA Aberdeem SD Hov 20	
1330	WOXE NEW YORK NY	
1570	CHU3 Nanaimo BC Jan 28	
	CKLC 3randon MB Sep 5 CKTA Taber AB Feb 23	,
1590	LAKE Akron OH Sep 3	
1690	KORG Cedar Rapids IA Feb 12	
<u> </u>	DUCPE: Sumpline Radio, Fortnarnock	Nov 2
53 1	Sumuline Radio, Fortharmock RUV Hofn	Aug 18
66 6 71 1	FR-3 Radio Pays de Laire, Connes	i.ov 1
738	auv Akursyri	Jun 8
774	SEC Radio Loods	Tov 13 Jan 8
792	Voice of America, Kevala BBC Radio Ulster, Londonderry	flov 13
	Radio Sevilla	Jan 29
€28	MR2, Hennover	Dec 18 Feb 10
	Südwestfunk, Freiburg	v Jan 6
	fulgarian Radio, Sofia/Christo Pole Chiltern Radio, Functable RH-3 Lorreine Champeine Aldennes	Γeb 5
٤3 7	in-3 Lorraine Champeine Aidennes	7et 10 Dec 18
	t out Redio Literatur	00v 4
54 6 86 5	Radio Leva, Bublin	Nov 13
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	revendir Badic, Tolhay	3ct 3 1ov 18
99 0	nadio na Daeliachta, Anegry Radio Filbac	Jan 6
- 50	gro Radio Scotland, Aberdaen	hov 13 - Feb 20 as RBC
1026	Countour Radio, Filfret	Sep 5 Redio Aberdeen Ook 3
1035	Porth Sound, Actrova	Ont 31
1107	oray Firth adio, inverness	731.73 - Feb 14 Ls 19A
1115	Torth Sound, Attroch Torth Sound, Attroch Tost Gound, Tyr Horny Firth Ladio, Inverness 8372, Ori	Jan (liverniss
	RAC Ésdio Perby Padio Catautel, Dundalk	Nov 3
1125	CART Coinaut	Feets &
1134	Gadio Jaoreb. Tovarnik	Feb t Feb 12 GGI 15
4450	APO Cadio, Jublin	5ep 5
1152	Cadio Clyde, Clascow atro cadio, Lewcescle	Nov 1
1161	Hadio Tay, Dundee	Det 1
1170	hadio koper - Comodistria	Det 31 Aug 4
	Radio Victory, Partswouth Swensea Sound	Aut: 4
	Radio Toss, Steckton-on-Ters Brdio Greatl, Inswich	កុម្មា ខេត្ត
	Sadio Oreall, Inswich	tiov 3 Dec 22
1168	Radio Cublin Telstor Radio, Cundelk	Sec 38
1205	gows Amuitaine Madio. Porceaux	feu 9
1735	KELO Bodio 244, Swords	NOV 3
1200	loice of America, Plados	Dec 29
	Rodio tolencia Redio San Cabaptian	Dec 25
	Redio tost, existol	Jan 7 Dec 27
1255	Contre Sadio, usinester Sadio Sovi Sad	Dec 29
1278	Pannine Rudio. Tradford	ელი 29
1305	Farahe, Palgium	Nov 4 3ul 15 – Pav 7 as
	Poyneside Radio, Tropheda Community Engine Tropheda; San	8 ns Radio Prophyda
1214	Padia Contro Endrid	1.00 3
	Sonic Independent Radio, Sublin	Jul 25 Feb 17
1323	Payneside Redio. Pronhada	Jul 15
1332		791 30
1259	Vileia Cound, Coventry	for 17 fug 4
	Terdiff EC Escax Radio, Chalmsford	Jan 3

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	1358	RAI. Venezia etc.	Jan	6		
		BBC Radio Lincolabbice	Dec	14		
		Manx Radio, Douglas	Sep	10		
	1386	Radio Carousel, Drogheda	Feb			
			Feb			
	1401	Radio Tirana				
	1431	Emissora das Ceiras, Caramulo	Jan			
		Essex Radio, Southend-on-Sea	Oct			
	1449	Sender Freies Berlin	Feb	9		
	1458	BBC Radio Newcastle	Jan	8		
	, , , ,	BBC Radio London	Oct	31		
		BBC Radio Carliale, Whitehaven	Nov			
			Nov			
		BBC Radio Manchester				
	1484	RUV Raufarhafn etc.	Aug			
	1485	AFRS Keflavik	Oct			
		NRK Longycarbyen	Nov			
		98C Radio Pumberside, Hull	Oct	31		
		BBC Radio Perscyside, Liverpool	Nov	3		
		DEC Radio 4, Carlisle	Dec	27		
	4 / 0 4	FR-3 Rhone-Alpes-Auveryne, ClFeirand			•	
	1494	Para Middle-Alpedandvergne, Crameriano	Jan	8		
		Beltsy/Komrot (Luccafarul), Foldavia		-		
	1503	BBC Radio Stoke-on-Trent RUV Siglufjordur etc.	Nov			
	1510	RUV Siglufjordur etc.	Aug			
	1515	Radio Tirana	Feb			
	1521 t	Padio Pontevadra	Ĵan	25		
		BEC Radio Nottingham	Nov	1		
	1548 +	REC Radio Cleveland	3 an	á		
	1340 0	Radio Forth, Edinburgh	i.us	ε		
		E-104 Carrisha	- ob			
	1562	RdP1, Covilha				
	1584		Jan			
		Redio Tay, Perth	Nov			
		and Radio bristol, Taunton	řeb	5		
	1593 1602	F. Ciuc, Romania	NOV	17		
	1602	DDC Radio korfolk, King's Lynn	-0 V	3		
	1611	Vetican Radio, Vatican City State	်စေ	30		
	1143	AFN Bremerhaven	Jan			
	1350		OU			
•	1330	Casharue, Cachran 224		£		
	A5	IA:				
	1 251 A5	China, P. R.	Jan	29		
	1287 +	Calei 7shal. Tel Aviv	lov			
	1206	Gelei Zehal, Tel Aviv Baku, Azerbaijan SSR	Dec			
	1230	Calai Jahal Haifa	Sec			
	1305	Calei Zahal, Haifa China, P. R. Radio Yuwait BBC World Service, Mesirch I., Oman	l'ov			
	1332	Lnina, F. S.				
	1341	Radio rueait	nct	23	- slee h	
	1413	BBC World Service, Desirch I., Omen	Oct		Septim	par
	1422	Unina, P. K.	!lov			
	1521	Urumqi, XJ, China, P. R.	^{tj} ov	3		
	1575	China, P. R.	Nov	21		
		PICA:	_			
	1215	Radio Atlantico, Las Palmes	Jan	11	- also h	
		UTU P CENTREL ALESTES.			fall 1	981
	20.	UTH & CENTRAL AMERICA:	7	70		
		Radio Visión 950, Caracás	Jan			
	1220	Radio Globo, Rio de Janeiro	Jul			
	1300 E	Radio Iracema, Fortuleza	Jul			
	1555	Radio Irocema, Fortuleza Radio Cayman, George Town	Jan	29		
	1580 \$	Voice of America, Antigua	Sep	6		
	1610 t	Voice of America, Antiqua Caribbean Beacon, Anguilla	Sep	5		

Cuba Disrupts U.S. Radio as Distant as Des Moines

By DAVID SHRIBMAN special to The New York Times, 9-1-82, VIA Matt Stutterheim special to The New York Times, 9-1-82, VIA Matt Stutterheim special to The New York Times, 9-1-82, VIA Matt Stutterheim special to The Cuban Government, apparently responding to Reagan Administration plans to transmit radio programs into Cuba. disrepted American programs on the Am frequencies.

The Cuban Government threatened programs on the Am frequencies.

The Cuban Government threatened cartier this summer to begin broadcasts that would disrupt American radio programming if Congress aproved the Administration's proposal to establish Radio Marti, a Government radio station of provide news broadcasts, which lasted for four hours, which lasted for four hours, passed by nearly a 2-to-11 margin by the Beauset of the Law."

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