

# MEDIUM WAVE NEWS

MEDIUM WAVE CIRCLE


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No. 1 'All about Wireless' - A New Paper for ALL

## POPULAR 3<sup>d</sup> WIRELESS

Weekly

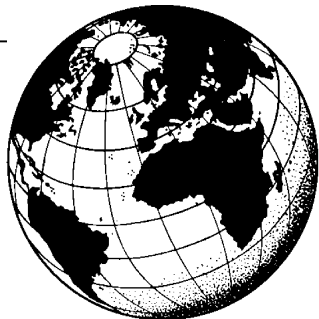
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1922



THE WORLD'S  
LATEST HOBBY  
FULLY EXPLAINED

PUBLISHED  
EVERY  
FRIDAY  
ORDER IN  
ADVANCE

PACKED WITH  
PICTURES AND  
EXPERT ADVICE



- ♣ *US satellite radio*
- ♣ *Montana DX Test*
- ♣ *Profile: Radio Tyneside*
- ♣ *Frequency measurement*
- ♣ *Review: DSC decoder*
- ♣ *LPAM monitoring survey*

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## STOP PRESS:

This month we'd like to extend a warm Circle welcome to the following new members: Geoffrey Dickman, Harrogate; Laurence Black, S Yarmouth, MA; Charles Hutton, Seattle, WA; Gary Wilt, Wood Ridge, NJ; Chris Millward, Maidstone, Kent; Michael Slattery, Sheffield; Kevin Murray, Casper, WY; P Roadhouse, Rotherham; Michael Steeples, Sheffield; D Stocks, Mansfield; and Janet Bell, Cheltenham.

## WELCOME TO THE CIRCLE AND TO 2007!

Stop Press Deadlines:	1 <sup>st</sup> February for February 2007	26 <sup>th</sup> February for March 2007
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Cover illustration: 1922 - First Edition of <i>Popular Wireless</i> reveals the iPod of its day!
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# EDITORIAL

with Steve Whitt

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## Welcome to 2007

It feels strange writing this before Christmas because by the time this gets into print I will have just returned jet lagged from Boston MA with the family. Hopefully MW radio conditions will have improved over the winter solstice since they've been appalling during the 4 weeks prior. Even when the ionosphere has been calm and quiet MW DX has been hard to come by, but to cap that, December featured several major ionospheric disturbances. These resulted in visible aurora, widely visible despite a full moon, and noted as far south as the Shetlands and Hebrides in the UK.

*A beautiful aurora in December; sorry this won't look so good in monochrome print →*

Personally I lost my dual K9AY antennas during serious storms and I could not quickly re-erect it since the storm had actually broken my fibreglass telescopic supporting mast in two places! Even without an antenna, I don't think I heard much less DX than other people since conditions were so poor!

## The Early Years

The search for early Circle members has continued apace with considerable success. We've tracked down another 10 former members, added 13 missing copies of MWN to the archive and had an original copy of the first issue of MWN donated.

Since last month we've made contact with former members from the 1960s; Cyril Billington, Peter Burden, Ottavio Celli, Norman Hembrey, Brian Cullop, Stewart Foster, Roy Patrick, and Tom Williamson and we think we've found Harley deLeurere, Gunter Jacob, Des Walsh, Dave Lane and Gordon Darling.

Special thanks to **Roy Patrick** for the first edition of MWN and to **Charles Hendry** for finding and then donating 13 issues of MWN from Volumes 10, 11 & 12. These issues also contain quite a bit of information summarising the situation in the 1950s – e.g. a summary of what rare DX was heard and when.

We have also unearthed recordings of **Ken Brownless**, who ran the Circle from the late 1950s until his death in 1984, courtesy of **Mike Barraclough**. There are actually two recordings, the first is an interview with Ken discussing his loop antenna and the second is a panel discussion that features Ken along with Brian Mulleady, Clive Jenkins and Andy Sennitt. Both these recordings were



recorded at the 1973 World DX Club Convention, held in London. You can download these recordings off the Circle Website <http://mwcircle.org/page62.htm> (Note: large mp3 files).

We are still looking for an image of Ken, if you have one, or any other material we would be interested in hearing from you.

I'll return to this subject when I have more news and more time at the keyboard.

## Circle Website News

We've recently added photos of Charles Molloy and Al Slater to the "In Memory" section of the website <http://www.mwcircle.org/page62.htm> and Tony has introduced a new section containing antenna advice currently linked off the home page [www.mwcircle.org](http://www.mwcircle.org)

## Website Competition

We ran a Christmas competition on the Circle's website from the 21st December until the New Year. We were planning a much bigger competition later in this year and we used this competition as a tryout. The competition was only promoted via the e-news service but only TWO entries were received which is rather disappointing, considering the that this news service has approximately 160 members subscribed to it.

Members were asked to identify the make and models of the images that appeared on the recently published set of CD's covering the past 5 decades of Medium Wave News. The answers are as follows:

- 1960s (the free CD given away with the December 2006 issue) was a PYE Piper model 116u. The nearly identical model 115u would also have been accepted.
- 1970s Part 1 Roberts R404
- 1970s Part 2 Roberts R600
- 1980s Part 1 Sony ICF 2001D. We would have also accepted 2010 as an answer. As this is was/is the best selling DX portable radio this question should have not been that difficult to identify.
- 1980s Part 2 Yaesu FRG 8800. This was perhaps the most difficult to identify.
- 1990s Part 1 Sangean ATS 909. Another popular radio that was badged by a number of manufacturers such as Roberts (R861).
- 1990s Part 2 AOR 7030. A receiver used by a lot of members.

Three prizes were offered and since there were only two entries, the third prize was not awarded.

Second prize goes to **Christoph Mayer** from Germany, who correctly identified the Sony and the AOR. Christoph wins a copy of the 2007 Radio Listener's Guide.

The first prize is awarded to **Ken Baird** in Scotland, who correctly answered everything (smart a\*\*e). Ken has opted for web services to the value of £100.

Congratulations to both winners. <http://mwcircle.org/xmascomp.htm> Regards, Tony Hudson

## Reminder: Special Offer for Members Only; 10% off WinRadio

Even with Christmas behind us now, remember that the Circle has arranged a discount of 10% for any member who wishes to buy ANY WinRadio product from the WinRadio UK store. Members should enter the discount code **VIOP10500203** in the promotion box or mention it when they place an order.



## World Radio TV Handbook / Passport 2007

Copies of the new 2007 World Radio TV Handbook were despatched to members on 4th December and Passport to World Band Radio on 29th November, so all should have been received by now. We may still have a few copies of WRTH available on a first-come basis (see November MWN for price details). If you sent a cheque from J.R. West to pay for your books please contact Andrew Tett straight away as we do not have an address to despatch them to. Thanks. Andrew Tett, 19 Park Road, Shoreham-by-Sea BN43 6PF.

## External Representative

This month I have to report that George Brown is standing down as the Circle's External Representative. George has looked after this aspect of club affairs for several years but recently the role has changed substantially. Originally the main purpose of the External Rep was to maintain close links with other clubs and organisations in an era before near-universal availability of e-mail. Today such contact is much easier and distance and time zone are almost irrelevant. Consequently the work for the External Rep has declined to the point that we won't be advertising the position.

The Circle extends a big "thank you" to George for his help and continued support of the club.

## Equipment news

Japan Radio Co. declared in their web site that they will end the production of NRD-545 receiver in January 2007. The sales will be discontinued after the stock is out. (Takahito Akabayashi-JPN, wwdxc. This receiver is described here: <http://www.mwcircle.org/page163.htm>



## Club news



We regret to report that the New Zealand DX Radio Association founded on the 7th January 1933, will close up on 31st December 2006. Ron Killick, writes from Christchurch. NZ; "I prepared and mailed the final *Tune In* magazine a few days ago, now only the paper work and the financial side of things to look at. Our numbers

have not been large in recent years, and kept getting less, and finally costs and general support caught up. Farewell to our friends, but some of us will continue to DX of course, and remain in contact." This club claims to be the world's longest running DX club so it's sad to hear this news.

Radio Nuevo Mundo is a Japanese-based club specializing in Latin American broadcasting. Sadly Glenn Hauser reports; "Farewell to Radio Nuevo Mundo, which is now ceasing (pdf) publication due to declining LA DX activity in Japan, though they will retain some contact and web activity"

## Thanks

To **Dave Smith** in Crayford for dropping us a line prompted by the search for former members. Dave mentions that he started out in December 1966 after reading in Practical Wireless about Al Slater's logs made in Southwick, Sussex on a BRT400 receiver. Dave got going using an AR88D and MW box loop and recalls that at times many of the North American stations were "armchair copy". Thanks for the tips & kind thoughts.

Thanks also to everyone who sent Christmas cards (or their modern electronic version). Each is much appreciated.

73s

*Steve*

# IONOSPHERIC REPORT

from U.S. Dept. of Commerce, NOAA, Space Environment Center

## Daily Geomagnetic Data

Date	Middle Latitude -- Fredericksburg --								High Latitude ---- College ----								Estimated ---- Planetary ----										
	A	K-indices							A	K-indices							Ap	K-indices									
2006 11 23	8	0	1	3	3	2	1	2	3	34	4	1	5	6	5	4	3	4	18	1	1	4	5	4	3	3	3
2006 11 24	10	3	3	3	2	2	2	2	2	32	2	5	5	5	6	2	2	2	21	3	5	5	3	3	2	2	2
2006 11 25	10	1	3	1	1	2	3	3	3	21	3	2	1	4	5	5	3	2	15	2	4	2	2	3	4	4	3
2006 11 26	9	2	3	3	2	3	1	2	2	17	3	2	3	4	5	2	2	2	15	3	4	4	3	2	1	3	3
2006 11 27	7	3	1	2	3	1	1	2	0	13	2	1	4	4	3	1	1	1	6	2	1	2	2	1	1	2	1
2006 11 28	4	1	1	0	1	2	2	1	1	10	0	1	1	4	4	2	2	1	5	1	1	0	2	2	1	1	2
2006 11 29	6	1	3	3	1	0	1	1	1	-1	0	2	0	-1	0	1	1	1	6	2	3	2	1	0	1	2	2
2006 11 30	15	2	3	4	4	4	3	1	0	73	2	5	8	7	6	5	3	1	28	2	4	5	5	5	5	2	1
2006 12 01	3	1	1	0	1	1	1	2	1	3	-1	0	0	2	2	1	1	1	4	0	1	0	1	1	1	1	2
2006 12 02	1	0	1	1	0	0	1	0	0	2	0	0	1	1	2	0	0	0	2	0	0	1	0	1	0	0	1
2006 12 03	2	0	1	1	0	1	1	0	0	0	0	0	0	1	0	1	0	0	3	1	1	0	0	0	1	1	1
2006 12 04	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1
2006 12 05	2	0	0	0	0	1	1	1	1	2	0	0	0	1	1	1	1	1	2	0	0	0	0	0	1	1	2
2006 12 06	15	3	3	2	3	3	2	4	3	52	2	4	3	7	6	6	5	3	28	3	4	3	5	5	3	5	3
2006 12 07	14	4	3	4	3	3	2	1	2	46	5	4	6	6	6	4	3	3	25	5	4	5	4	4	3	3	3
2006 12 08	17	4	4	3	3	3	2	3	3	48	4	5	6	6	6	5	3	2	25	3	5	3	5	3	3	3	3
2006 12 09	6	1	1	1	0	0	1	2	4	13	4	3	2	2	0	3	3	3	7	1	1	1	0	0	1	2	4
2006 12 10	8	1	2	1	2	3	3	2	2	29	3	2	3	5	6	5	3	2	14	2	3	1	3	4	4	3	3
2006 12 11	11	3	3	3	1	1	1	2	4	19	3	4	4	4	3	2	2	4	15	3	4	3	1	1	1	2	5
2006 12 12	15	2	3	3	2	3	3	2	4	50	4	6	6	5	6	4	4	4	26	3	5	3	3	4	3	5	4
2006 12 13	5	2	3	0	0	1	1	1	2	5	3	2	0	1	1	1	1	1	5	3	3	0	0	0	0	0	2
2006 12 14	30	2	1	2	3	5	5	3	6	68	1	4	3	4	7	7	7	5	63	2	1	2	2	6	7	6	8
2006 12 15	48	7	6	5	5	4	2	3	3	120	6	7	8	8	7	6	4	3	104	8	8	7	6	7	4	4	3
2006 12 16	10	2	3	1	1	1	3	3	3	7	3	3	1	1	0	2	2	2	11	3	4	1	1	0	2	4	3
2006 12 17	3	2	1	0	0	0	1	2	1	4	2	2	0	0	1	1	2	1	4	2	1	0	0	0	1	1	1
2006 12 18	7	1	2	1	1	2	2	2	3	8	1	0	1	4	3	2	1	2	8	1	2	1	2	1	2	2	4
2006 12 19	9	2	3	2	3	3	2	1	1	33	2	3	3	7	5	4	2	2	14	3	4	2	4	3	1	2	2
2006 12 20	16	4	3	2	2	3	3	4	3	45	4	3	3	6	6	5	5	5	24	4	4	3	2	4	3	5	4
2006 12 21	9	4	2	3	2	2	2	1	1	29	3	2	6	5	5	3	3	2	14	4	3	4	3	3	2	2	1
2006 12 22	10	3	2	2	3	2	2	2	3	55	2	5	7	7	5	4	3	3	14	3	3	4	4	3	2	2	3
2006 12 23	10	2	2	3	2	3	3	2	2	29	3	1	4	5	6	4	4	2	15	2	2	3	2	3	4	4	2
2006 12 24	7	2	2	2	2	2	2	2	2	14	2	1	4	2	4	3	3	2	10	3	2	3	1	2	3	2	2
2006 12 25	4	3	1	1	1	1	1	0	1	10	3	2	2	2	3	3	1	2	6	3	2	2	1	2	1	0	1
2006 12 26	3	1	1	1	1	1	1	1	0	3	1	0	1	2	1	1	1	0	3	1	0	1	1	1	1	1	0
2006 12 27	2	1	1	0	0	1	2	1	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	1	0	0
2006 12 28	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	2
2006 12 29	1	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	1	1	1	1
2006 12 30	2	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0
2006 12 31	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2007 01 01	7	0	0	1	2	3	3	2	2	16	0	0	2	5	5	3	2	1	7	0	0	1	2	3	3	1	2
2007 01 02	12	4	3	1	3	3	2	2	2	30	2	2	3	6	6	4	3	3	19	4	4	2	4	5	3	2	3
2007 01 03	11	1	3	2	3	3	3	2	3	48	2	4	4	6	7	6	3	3	20	2	4	3	4	4	4	3	3
2007 01 04	13	3	3	3	3	2	3	3	2	25	3	4	4	5	5	4	2	2	16	3	4	4	4	2	3	2	2
2007 01 05	6	2	2	2	2	2	2	1	1	19	2	2	3	5	5	4	1	1	9	3	2	2	3	3	2	2	1
2007 01 06	2	1	2	0	0	1	2	0	1	2	0	0	0	0	2	2	1	1	3	1	1	0	0	1	2	1	1
2007 01 07	1	0	0	0	0	1	2	0	0	2	0	0	0	2	2	0	0	0	2	0	0	0	1	1	1	1	1
2007 01 08	2	0	1	0	0	1	1	1	0	1	0	0	0	0	2	0	0	0	4	0	2	0	0	1	1	2	1
2007 01 09	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	0	1	1	2	-1	-1	-1

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## EDXC Conference 2006 – Report by George Brown

This year's conference was held in St Petersburg, Russia from 19-22 October at the State Regional Education Centre of the Federal Atomic Energy Agency where accommodation was available.

There were 70 people present comprising 31 from Russia, 22 from Finland, 3 each from Denmark, Sweden and the Usa, and 1 each from Belarus, Czech Republic, Germany, Ireland, Japan, Netherlands, UK and Ukraine. *The UK delegate at the conference was the Circle's External representative George Brown.*

The proceedings were conducted in Russian and English with simultaneous translation by Andrey Spiridonov from the local Mining University and Sergey Sosedkin from The Back to God Hour Ministry.

The conference was opened by Alexander Beryozkin from the St Petersburg DX Club and Tibor Szilagyi on behalf of Luigi Cobisi, Secretary General of the EDXC. The whole of Friday and Saturday morning were devoted to lectures and reports some of which are listed below:

- "Special features of radio waves propagation by reflection from ionosphere" by Prof. Evgeny Milyutin from the St Petersburg State University of Telecommunications
- "My 13 years at KFBS Saipan" by Michael Adams from FEBC
- "Using active magnetic aerials in professional radio receiving and DX-ing" by Dr. Anatoly Bobkov from Rosmorservice Ltd.
- "Collecting Soviet vintage radio receivers" by Mr. Omar Cheishvili
- LW, MW, SW Broadcasting Past Present & future DRM Standard by Valentina Jolkver-Krasnopolskaja from Deutsche Welle
- "Results of the tests of software-defined radio receivers for HF and MW reception using both analogue and digital (DRM) technology" by Mr. Tarmo Kontro from University of Applied Sciences Kotka
- "Broadcasting in St.Petersburg region" by Mr. Mikhail Timofeyev from the Russian TV and Broadcasting Networks
- "DX-ing and radio landscape in Thailand, Vietnam, Laos and Cambodia" by Mr. Anker Petersen
- Development of DRM Transmitters by Alexander Artamonov from MART Transmitter Building Co.

Whilst it was a very full programme there were opportunities to meet and talk with other participants during the intervals.

On Saturday afternoon there was a sightseeing trip of the city which had to be curtailed due to traffic congestion and to permit time to visit the Memorial Museum of Alexander S Popov a pioneer in the development of radio. We were shown around by Laisa Zolotinkina, the Curator of the museum. The Conference ended on the Saturday evening with the customary banquet. The next EDXC conference will be held in Lugano, Switzerland 1<sup>st</sup> –4<sup>th</sup> November 2007.

# THE FUTURE OF RADIO?

with John Williams

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From the latest Rajar figures you might think that the radio industry had few troubles. But, like the rest of the sector, it is trying to cope with a panic attack about the future. While the cosy world of families crowded around the wireless is long gone, radio has made vast progress in recent years. Digital broadcasting probably counts as a qualified success and more people are using the internet to listen to audio, podcasts and streaming music. A dizzying range of possibilities is beginning to open up as a result.

Most broadcasters are scratching their chins over on-demand listening; a jigsaw puzzle of programming that uses the net to ditch traditional strip schedules. Listeners can build their own radio diet by plucking shows from different stations and different brands. I might, for example, choose to harvest the anarchic Adam & Joe show from XFM, add a dash of 6 Music and then mix it in with a healthy slice of 5 Live's 606 for my football fix. No single station could satisfy me but, thanks to technology, I can cue them up online or put them in my pocket for the daily commute.

Meanwhile, innovative web-based services like Last.FM and Pandora offer a different way forward - music discovery which replaces the DJ. Nifty programming ju-jitsu allows them to create ever-changing playlists which are intelligent enough to know the music you like and suggest new artists who might be of interest. Then again, some are testing ways to harness music sales. By clicking a button or sending a text message when you hear a track you like, you could buy music and throw a few pennies to the station in the process. It's great news for internet broadcasters looking for a business model, though traditional networks are sceptical that it could ever replace advertising.

Even a seemingly straightforward technology such as DAB has turned out to be full of twists. Stations can broadcast pictures and text alongside their audio streams, giving audiences more information but also - inevitably - increasing expectations. All this raises the prospect of truly multimedia radio services delivered across a panoply of devices, including television, mobile phones, computers and iPods. Perfect for audiences who demand more flexibility ... but does that mean it's radio any more?

That was a question tackled in a frank round table discussion last week, organised by technology firm Real Networks. Senior representatives from the BBC and commercial radio joined with people from the music industry, DAB and the web to put forward their opinions on what might be on the horizon. Everybody was in agreement that radio has a bright future, but details proved harder to pin down. One thing was clear, however: the big noise recently has been made by headline-grabbing download services like iTunes. That scares radio because mind share - not just market share - is now subject to competition. Radio has several advantages, however, not least massive audiences and a fantastic reputation with the public. And, for all the hype about download services, they still represent just a sliver of the music market despite three or four years of staggering growth.

In some ways, the clammy embrace of the BBC has provided British radio with a peculiar insulation. Its attempts at future-proofing have pushed developments elsewhere, and regulation has helped ensure that the UK doesn't ape the lowest common denominator commercialism of the US's Clear Channel-dominated airwaves. This is both an irritation and a safety net for competitors, of course - but for the most part, the public responds by tuning in. That gives radio a head start, but it doesn't mean the hand wringing will stop over where the industry might be in five, 10 or 20 years. Is it on-demand? Is it automated? Is it converged with TV? Perhaps it is all of these, or perhaps none. In the end, while the future of radio might be healthy, it might not be the future you imagined. (from [www.mediaguardian.co.uk](http://www.mediaguardian.co.uk) 7 August, 2006)



# USA SATELLITE RADIO

with John Williams

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I am watching a live radio programme. The DJ is playing an “Elvis” record and the next record he plays is also an Elvis song. In fact he (and the other DJ’s) will not play any other recording artist. Although he has a potential audience of over four million – they are not listening on the internet. I cannot hear the station on the radio in my hired car. This is satellite radio – and I am watching a 100% commercial free radio show “All Elvis Presley, All the Time”. The programme is live from “Gracelands Memphis” (although they actually broadcast across the road from the Gracelands Mansion.)

Over 10 million American listeners have subscribed to the Satellite technology to listen to over 175 different stations in their car, or connected to their Hi Fi system. There are programmes featuring Pop, Rock, Electronic and Dance,



Talk, News and of course Sport. You can even listen to BBC Radio One! If you are in any of 20 major congested metropolitan areas you can have traffic and weather reports every four minutes.



← Typical XM receiver doubles as mp3 player

There are two separate satellite radio stations in the USA. XM satellite has over 6 million subscribers and Sirius – which has the slogan “The Best Radio on the Radio” -has over 4 million. However as part of a 1997 rule allowing XM Satellite Radio and Sirius Satellite Radio to operate, the Federal Communications Commission required that they work toward compatible radios. But it set no deadline or penalties for non-compliance.

With no deadline to worry about, the nation's two satellite radio companies say it could be years before they meet a federal requirement to design radios that can receive broadcasts from both of them. That's years during which any consumer who wants to

switch from one company to the other will have to spend hundreds of dollars for a new radio to receive the new service.

Consumers pay a monthly fee of \$12.95 for Sirius the same for XM Satellite Radio. They also must buy the radio, which can cost from \$100 to over \$2,000 depending on features.

There is strong competition between the two stations – Howard Sterne and Martha Stewart have programmes on Sirius – whilst you can hear Bob Dylan on XM.

Car manufacturers offer the satellite system already fitted in certain models. General Motors, for example, has an agreement that requires XM to pay a fee until 2009 for the exclusive right to put XM in GM cars. GM also gets a percentage of the monthly fee XM subscribers pay. About 250,000 GM owners have satellite radio. On Sirius there are 22 different manufactures that provide models fitted with the satellite system.

Clearly this type of radio – all commercial free – has taken off very strong. I wonder what effect it is having on local AM and FM stations – whose audiences must be dwindling?



# RADIO TYNESIDE 1575kHz

with John Williams

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Radio Tyneside is a radio station based in Newcastle upon Tyne, England which is designed for hospital patients and those in the hospital community of Newcastle and Gateshead.



On-air since the 6th October 1951 we have grown from a once a week football commentary service to a 24 hour - 365 day service which includes specialist programming, dedications and we still provide a commentary on all of Newcastle United's home football matches live from St. James Park.



In 1998 we were awarded Runner Up in the Station of the Year category in BT Hospital Radio Awards and in 2001 we won the Best Special Event Programme Award.

We began life as a once a week football commentary service to one hospital. Although we've grown football is still just as important to us - just as it is to most of the population of the North-East! Every home game of Newcastle United can be heard on Radio Tyneside and also by the visually impaired listeners at St James Park with commentary, (rarely unbiased!), from our own commentating team of Max Taylor and Sports Editor Paul Laverick.

The station broadcasts 24 hours a day 7 days a week. There are locally produced programmes from 0500 – 2300 hours Monday to Friday and at weekends from 0600 – 2300 hours. There is non stop music overnight. All times are local. There is a mixture of programmes from Country, oldies and current hits. There are also dedications for patients, quizzes, and non stop music hours. News reports are on the hour daily. They actually broadcast to 5 separate hospitals: Newcastle General Hospital, Royal Victoria Infirmary; Freeman Hospital; Hunters Moor Rehabilitation Centre all in Newcastle and Queen Elizabeth Hospital and Bensham Hospital Gateshead.



The station also attends outdoor events.

Newcastle Healthcare Charity recently organised a sponsored walk in support of the RVI Centenary celebrations and extended an invitation to anyone interested in raising funds for the Infirmary. Radio Tyneside provided entertainment and live programmes.

Also broadcasting on 1575 kHz are Stoke Mandeville Hospital Radio Aylesbury and Jam 1575 from the University of Hull. The only other UK station on this frequency is Oakwell 1575 AM broadcasting home match day fixtures of Barnsley Football Club.

Their address is Radio Tyneside, The Studios, Newcastle General Hospital, Westgate Road, Newcastle upon Tyne NE4 6BE Phone: 0191 2736970. Website [www.radiotyneside.co.uk](http://www.radiotyneside.co.uk). Email: [info@radiotyneside.co.uk](mailto:info@radiotyneside.co.uk)

Radio Tyneside is planning to move to the Royal Victoria Infirmary in the near future (at a cost of £40000), but the old equipment was starting to prove to be so unreliable that they had to spend a lot of money refurbishing the studios at the Newcastle General. *New studios installed November 2006 →*



# PRECISION FREQUENCY MEASUREMENT FOR THE COMMON MAN

with Nick Hall-Patch

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This should be titled “accurate frequency measurement” rather than precision, but "precision frequency measurement" (PFM) has been the term used over the years in the North American hobby literature, so we'll stay with that term. An accurate measurement of the frequency of a received signal to within fractions of a Hertz might seem overkill, even for a DXer, but can provide a “fingerprint” of a received station, because transmitters tend to be controlled by quite stable oscillators. Along with a direction-finding antenna such as a loop, such PFM can allow a DXer to at least tentatively identify a carrier even before it delivers audio. It could therefore allow one to eliminate waiting for carriers to fade up, if one can see from the "fingerprint" that it has been logged before, or indicate that this is one worth waiting around for.

## How can one measure a received station's frequency so accurately?

Gordon Nelson, Ron Schatz and Charlie Taylor, among others, performed PFM in the '60s using stable oscillators to heterodyne with a received signal, then using an digital frequency counter accurate to one Hertz or better to read out the frequency of the "transfer oscillator" (see IRCA reprint T31 for details). More recently, Albert Lehr developed an even more accurate frequency measurement system by modifying a receiver so that it provided local oscillator frequency and IF frequency outputs, then performing digital magic upon those two signals, and determining the resultant frequency using a frequency counter locked to the stable and accurate signal from WWVB on 60 kHz. With this, and using sampling periods of up to 1000 seconds, he can determine frequencies of received stations to 0.001 Hz.

Albert's system is one of a kind, and is described in IRCA reprint T79. He provides the most accurate frequency measurements of various MW stations to the MWoffsets Yahoo group (<http://groups.yahoo.com/group/mwoffsets/>), but what can the rest of us do to measure accurately the frequency of our DX? Interestingly, quite a lot.

There are a couple of free audio analysis software packages that allow a user to create a spectral display of frequencies of the audio fed into the soundcard of a computer. One is Spectrum Lab (<http://people.freenet.de/dl4yhf/spectral1.html>), an extraordinarily detailed program, and a favourite of many on the MWoffsets group; the other is Spectran (<http://www.weaksignals.com/>), which is simpler and easier to understand, but quite capable enough for this application. The trick is to create a heterodyne on your receiver by tuning off frequency in sideband mode, then look at the spectral trace of the receiver's audio fed into your soundcard. These programs can give resolution of .1 Hertz or better in the slowest update mode, and can display carriers that cannot really be heard by ear. Mark Hattam gives a good introductory description about using this type of software in MWC reprint OT24, as does Steve Whitt in OT23. Such software can provide us with similar information about slightly off channel transmitters to that provided by some of the spectral displays of SDRs (Software Defined Radios), perhaps with greater accuracy.

Although I find this technique most useful when DXing the 9 kHz splits here in Canada, you can use it on domestic channels here also, sometimes displaying quite a quantity of carriers, when you thought you were hearing just one or two stations. For example, at my home in Victoria, B.C., I can hear two stations on 1490kHz in the daytime, but just after 1PM local time on 18 November, a Spectran display (see Figure 1) derived from the audio output of my Drake R8 tuned to 1490.4 in LSB mode shows evidence of at least eight stations clustered around 400Hz (which is the tone you would expect if all the stations were accurately set to 1490.0000kHz).

## Is this really an accurate representation of the received frequency?

Now, although one can get quite accurate relative frequencies of stations on one nominal frequency, e.g.: carrier x is 3.4Hz less than carrier y, what about the absolute accuracy of observed signals? Nobody has made any claims about the accuracy of the internal oscillators of consumer grade receivers, nor of the soundcards of our PCs. And inexpensive oscillators used in consumer electronics do drift. One does have to allow receiver and PC to warm up to get rid of the worst of the drift: I observed 8 Hz drift in an hour from a cold start using the R8 and an IBM T30 laptop, but after that it seemed stable to within 0.1 Hz. But, even when I've let everything warm up, the heterodynes are rarely spot on 400 Hertz, in fact they tend to be somewhat below that frequency. Are the stations not exactly on channel? It's really hard to tell unless Mr. Lehr has already measured them for us!

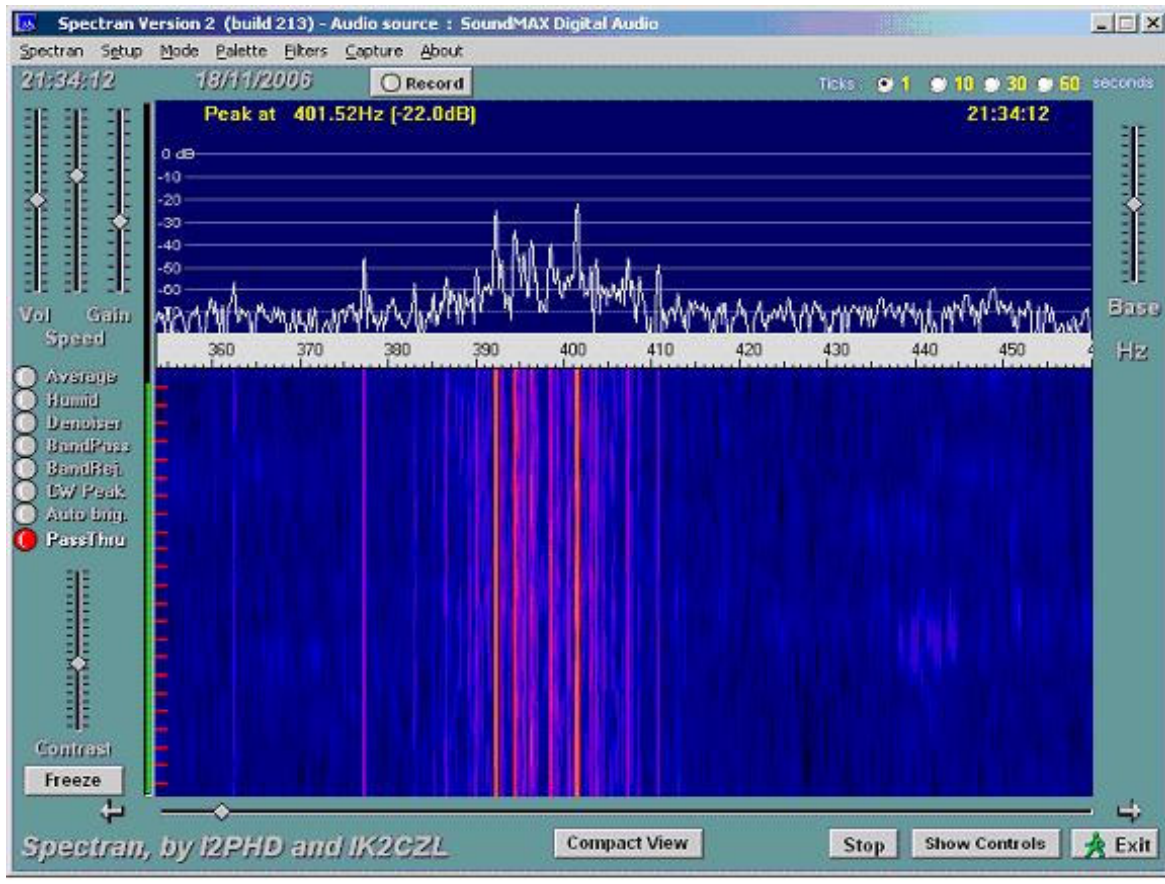


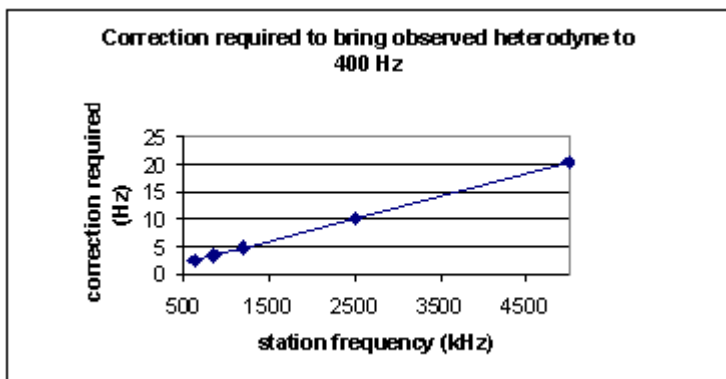
Figure 1

There is a way around this problem in America, using IBOC stations, which have one very positive attribute. Their transmitters need to be very accurately set to within small fractions of a Hertz of their nominal frequency. So, if I look at a station that is using IBOC, Spectran should show me a carrier of exactly 400 Hz. But, KEX-1190 uses IBOC, and I measured it, on a well warmed up system shortly after the 1490 kHz observation made above, and the heterodyne was 395.13 Hz, so my system is obviously not nearly as accurate as Al Lehr's.

However, what about noting the correction required to bring the reading of an IBOC station's heterodyne to exactly 400 Hz, and then applying that offset to measurements of other station's? In KEX's case this day, the correction is  $400 - 395.13 = 4.87\text{Hz}$ . Unfortunately, it turns out that my R8 / soundcard combination requires more than an offset correction; if I tune to another IBOC station on a different frequency, or to WWV on 2500 (this is a frequency as well as time standard, so is very accurate; 5000 kHz can sometimes also be used if propagation is not too disturbed), the offset turns out to be different from the one found with KEX. But, a quick look at 3 or 4 of the corrections for these stations shows a linear relationship between a station's frequency and the



correction required to bring the observed heterodyne to exactly 400 Hertz (the higher the frequency of the station, the larger the correction that needs to be applied; see Figure 2). So, we can use a slope and offset correction,  $y = mx + b$ , on each observed frequency, where  $y$  is the correction required to the heterodyne's frequency observed with Spectran,  $m$  the derived slope,  $x$  the frequency of the observed station, and  $b$  the derived offset; applying that correction to the observed frequency of other stations in this range can allow surprisingly accurate readings of received station's frequency.



← Figure 2

The slope and offset can be calculated and the resulting correction can be applied very easily using a spreadsheet program. For example, with the heterodyne offsets observed for five different known frequencies of stations on November 18, 2006, I found a slope of 0.004061595, and an offset of -0.023725416. Now, KSL-1160 broadcasts using IBOC, so should be

pretty close to 1160.00000kHz; using Spectran on this station with the R8 tuned to 1160.4kHz, I observed a heterodyne of 395.33 Hz, rather than the 400Hz it should have been. I worked out that the station's true frequency in kHz should be equal to:

$$x + 0.4 - y/1000 - z/1000$$

where  $x$  is the station's nominal frequency in kHz,  $y$  is the correction in Hertz derived above from  $y = mx + b$  above, and  $z$  is observed heterodyne frequency in Hertz, from Spectran.

In KSL's case, this formula told me the station was at 1159.99994 kHz, an error of 0.06Hz. My observations of other IBOC-capable stations, KFI-640, KCBS-740 and KEX-1190 gave errors of no greater than this, which is much better than I had expected when I started this exercise. KBOI-670 came in at 670.00492 kHz, rather than Albert's 670.00510 kHz observed on 3 November 2006 and posted to the MW offsets group; this is an error of 0.18 Hz, presuming that KBOI has not drifted at all. CJRJ-1200 was out by 0.27Hz from Albert's November 8th observation, still pretty good for this system.

But, CHMJ-730 showed a 2.17 Hz error from Albert's 8 November observation, and KNBR-680 was out by 1.5 Hz. What had gone wrong here, given that the others had been so close? I contacted Albert who told me that the CHMJ had been 730.0031kHz on 8 November, and 730.0011kHz on 15 November. My derived frequency of 730.00093kHz on 18 November now seemed very reasonable in light of this evidence of CHMJ's drift. And Albert had measured KNBR that same night during the KKGR test and found it to be within 0.1Hz of my derived frequency. I was really pleased with these two pieces of news. It does mean however, that one needs to aware of whether your target transmitter has a history of drifting!

One could conclude from this, that allowing a receiver and PC to warm up before a DX session, taking some Spectran observations of a few stations known to be accurate in frequency, and placing these in a spreadsheet, will allow the DXer to find accurate frequencies of unknown stations, easily to within a few tenths of a Hertz. Contact me (nhp@ieee.org) if you want a copy of the spreadsheet template, or have any questions.

*(This article first appeared in International Radio Club of America's DX Monitor, based on a talk given at the 2006 IRCA convention in Seaside, Oregon)*



# MONTANA DX TEST REPORT

with Les Rayburn

“The state of Montana is one of the rarest of all for DX’ers, especially those east of the Mississippi River. Through the joint efforts of a lot of dedicated folks, we are now proud to announce a special multi-station DX test from Montana offering listeners a rare opportunity to log this state.

Special thanks go out to the ABDX E-Mail List, Engineer Ron Huckleby, Michael Richard of KEVA, and the staff of these stations for putting this test together. DX’ers everywhere owe them all a debt of gratitude.

KANA 580kHz, Anaconda, MT (1kW Daytime Pattern)  
KKGR 680kHz East Helena, MT (5kW Non-Directional)  
KERR 750kHz Polson, MT (50kW Non-Directional) \*\*  
KLCY 930kHz, East Missoula, MT (5kW Daytime Pattern)  
KGVO 1290kHz, Missoula, MT (5kW Daytime Pattern)  
KEIN 1310kHz Great Falls, MT (5kW Daytime Pattern)

Date(s): Late Saturday Night November 18th, 2006 continuing until early Sunday morning, November 19th. Time: Midnight until 2 AM Mountain Time. 2 Hour Long Test.\*\*

Modes of Operation: Transmitter Testing. Daytime Power & Patten for all stations.

Programming: Morse Code ID's, Sweep Tones, Voice ID. KEIN 1310kHz will run a mixture of nostalgia music programming and Morse Code ID’s, sweep tones, etc. KERR will run country music and normal ID’s, no code or sweep tones.”

The Montana "Big Sky" DX Test turned out to be one of the most popular tests with DX'ers in some time. Our thanks again to the ABDX List, Engineer Ron Huckleby, Tony Mulligan, Todd Clark, Steven Dow, Michael Richard of KEVA, and the staff of these stations for all their efforts to make this test possible. We'd also like to thank Brandon Jordan for his wonderful web site which has become a real tool for DX Tests and Joe Miller who designed all the QSL cards for the test.

Without their support, it would be impossible to get these tests organized.

Regular readers will note that this edition of the report is abbreviated. It was simply impossible to edit all the reports received here and hope to get this edition out in any reasonable amount of time.

So, if your name isn't mentioned here, I apologize in advance. The full report contains the unedited reports of each listener who sent one in. Electronic QSL cards were e-mailed out on December 13th. We hope to get postal requests out next week. Please be patient. Postal reports (of which there were over 60 reports) will not be reproduced in the full report or here. Simply takes too long to transcribe all that text into electronic form.

I keep preaching, but we all need to join the "Information Age".

It appears that KEIN, KLCY, and KGVO did not participate in the test. Possibly due to automation problems or other issues. This is a great example of why real time, Internet based information sources are so vital to serious DX'ers. Many listeners participated in a real time chat room devoted to Medium Wave DXing, at <http://www.starchat.net>.

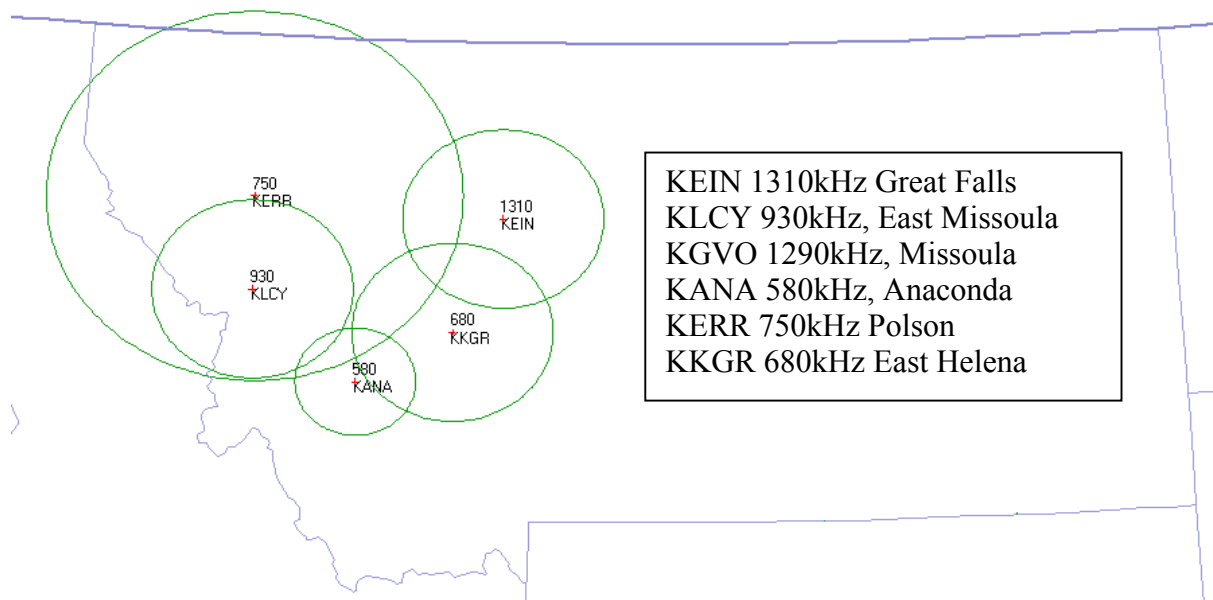
The channel is #MWDX. Those of us active on the chat quickly realized that these three stations were not participating, thanks to reports from local or near local DX'ers. Likewise, it was quickly determined that KKGR 680kHz was getting out very well across the country. This despite their being limited to 500 watts of power into a short 290 foot tower.

The "lesson learned" from the DX Tests this season is clear. Schedules will change, sometimes at the last minute. Real time, Internet based access to information such as the NRC "DX Tip" list, web sites like [www.dxtests.info](http://www.dxtests.info), and chat rooms like #MWDX are critical to putting new stations into the log.

The two most widely heard stations were KKGR 680kHz & KERR 750kHz, who did not run Morse Code or Sweep Tones. However, their unique format of classic country music made them easy to pick out on the channel. They also ran a lot of voice ID's which many DX'ers recorded.

KKGR 680kHz was a huge surprise. And was the station most widely heard during the test.

KANA also showed up in a quite a few logs, and despite their lack of participation in the test, some careful monitoring of 1290kHz put KGVO into the logs for some lucky DX'ers.



## Highlights & Problems

Both KERR 750kHz and KKGR 680kHz were heard "across the pond" with nice recordings coming in from Sweden and even Berlevag, in the Arctic Circle... a distance of over 4,000 miles!

Also logging both KERR and KKGR was Vesa-Jussi Rinkinen in Finland, at a distance of almost 4,700 miles. The recordings were clearer than many of the files we received from domestic DX'ers, even those in nearby Western states. I'd describe Vesa's recording of KERR as being nearly "local" quality. Voice ID easily readable, music selections quite clear as well. Amazing to hear this at that distance.

As predicted, the test resulted in the first logging of Montana for many DX'ers, including loggings from California to Maryland--making the test a coast to coast success. Richard Wood in Keaau, HI also managed to log KERR 750kHz and KKGR 680, at a distance of slightly over 3,000 miles.

The unique nature of this test also attracted a lot of listeners who might not normally participate in AM DXing on a regular basis. We received reports from ham radio operators, shortwave listeners,

and even one listener who logged the test on a high performance crystal radio! Eric Haydon of Lincoln, NE had already pulled in three Montana stations in the past using his home made crystal radio, and thanks to the test was able to put a few more into the log. Building and operating hot rod versions of the old familiar crystal radio is a wonderful sub-set of our hobby.

At various hamfests and conventions, I've had occasion to admire and operate some of these radios, and they are very impressive. They don't much resemble the Quaker Oats box and longwire version that many of us built as kids, and they certainly don't perform like them either. I've heard a few that would give my Drake R8B a run for it's money! More information on Eric's radio can be found at: [www.crystalradio.us](http://www.crystalradio.us)

After pouring through the reception reports, some common mistakes emerged that may have prevented some from logging the test. Many had the mistaken belief that KERR 750kHz would be airing Morse Code ID's and/or sweep tones. It was clearly stated in the test announcements that they would only be running normal programming with more frequent ID's.

It's important to do your homework, as the details for each test are often different. And KKGR 680kHz which was the most widely heard station of all did not join the "party" until just a few days prior to the test.

Those DX'ers who rely solely on printed publications would not even know that station was testing.

We did send out postal mail updates using the NRC/IRCA "Flash Card" system--but we no doubt had a significant number of members who were not even listening for KKGR. A real shame, since this 5kW signal was widely heard!

Another issue is reports that were sent with incomplete information. Many DX'ers do not bother to include their name or location. Some send very detailed reports but give no indication if they expect a verification or not. Some send e-mails saying that sound files were attached, but they weren't. Others sent clips that were way too long---one recording we received (via e-mail!) was nearly an hour in length.

Exact times were also an issue for many DX'ers. Often after a test, we have to use some detective work to assemble "logs" of details for the station. In this case, we constructed a "song" log for KERR noting what songs and artists were played during the test, along with the times of voice ID's. But while many DX'ers got the details right, there were variances of up to ten minutes in the reported times of events.

In this age of inexpensive clocks that are synced to WWVB, freeware utilities to sync your PC clock to the same time standard, and all of us having access to receivers that will tune in WWV... it's hard to explain why more DX'ers are not more critical with their noted times. We should all strive to be within a minute of "atomic time" especially during a DX test. In some cases, it may be the difference between being able to verify a report or not.

Finally, I'd like to encourage everyone to find and listen to a song called "Big Sky Country" written and recorded by my dear friend, Chris Whitley, on his debut album for Sony Records. The album is called "Living with the Law" and was released to critical acclaim. Many of the songs from the album were used in the movie, "Thelma and Louise". Chris passed away earlier this year from cancer. He was only 45, and leaves behind a beautiful daughter. The entire time that we were arranging this test, I thought about him and this song. For many of us who only dreamed of logging the "Big Sky Country", it's the perfect anthem for the test.

Thanks again to all who worked so hard to make this test a reality!

# UTILITY COLUMN

The home of non-broadcast news  
with David Towers

20 Valiant Close Glenfield Leics LE3 8JH  
e-mail:utility@mwcircle.org

## Beacon News

PAT 499.3kHz was active over the Christmas period with two modes. CW and HELL were used. Message in CW "PAT 06" and "HELL O PAT" + "ATLANTIC TEST" in HELL.

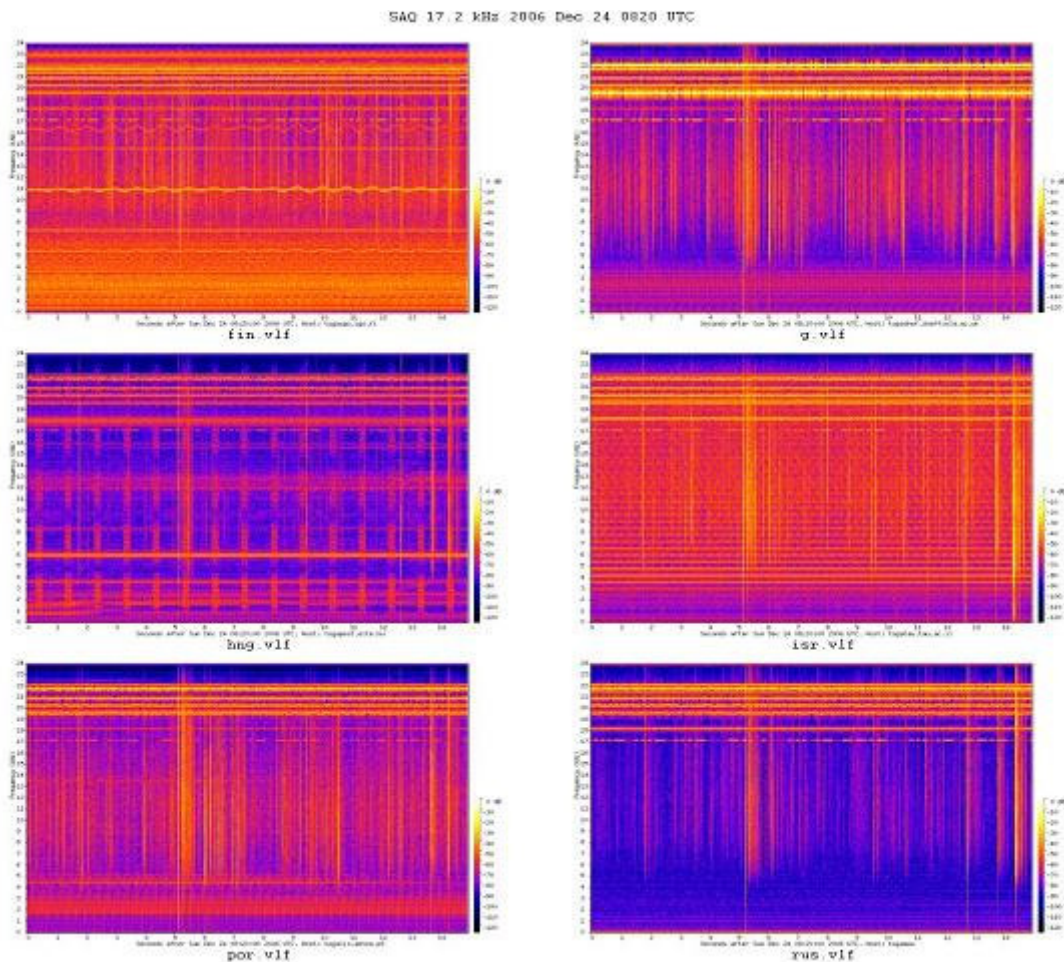
Signals were received over Europe and Canada - who knows what New Years Eve will bring on this frequency?

## Miscellaneous news

### SAQ info from Michael Oexner

As I've received SAQ at home during various occasions I tried something different today. Some of you might be familiar with WWLLN, the World Wide Lightning Location Network. This network consists of lightning location sensors that receive VLF signals between 3 and 30 kHz. Currently signals from 28 locations around the globe are displayed on the following web site:

<http://webflash.ess.washington.edu/>



The picture shows SAQ reception at these locations at 0820 UTC. Quite a good coverage range I'd say. Each spectrogram spans 15s in time (horizontal axis) and 24kHz in frequency (vertical axis). All start at precisely the same time at exactly 0, 10, 20, ... min past each hour. SAQ signals were clearly visible at the following locations:

**FIN / Finland** - Sodankylä Geophysical Observatory, **G / Sheffield** - University of Sheffield,  
**HNG / Budapest** - Eotvos Lorand University, **ISR / Tel Aviv** - Tel Aviv University  
**POR / Lisbon** - Portugal Meteorological Institute, **RUS / Moscow** - Institute of Terrestrial  
Magnetism, Ionosphere and Radiowave Propagation (ISMIRAN)

Many thanks to Michael for this topic. I guess that there is no excuse now for not having a VLF receiver for monitoring this area of the spectrum. I am constructing a VLF aerial for future VLF monitoring and will report more in 2007.

## Logs

kHz	Callsign	Station, location; details heard etc	SIO	UTC	Date	Who
305	LT	Alert Bay Canada		1921	19/11	Mo
321	BU	Burgas Bulgaria		1939	12/11	Mo
330	HR	Kharkiv/Osnova Ukraine		1831	12/11	Mo
356	BGS	Burgas Bulgaria		2002	12/11	Mo
356.5	OU	Ouargla Algeria		2204	19/11	Mo
363	CIG	Izmir/Cigli/Kaklic Turkey		2009	12/11	Mo
365	AD	Sochi Russia		1944	04/12	Mo
372.5	KTN	Kariatain Syria		2007	13/11	Mo
373	LPD	Lampedusa Italy		2127	10/11	Mo
386	LK	Tallinn/Ulemiste Estonia		1559	19/11	Mo
389	CP	Lisboa/Caparica		2112	04/12	Mo
428	MNF	Moron de la Frontera Spain		2142	01/12	Mo
443	AL	Almaty Kazakhstan		1946	13/11	Mo
455	KZ	Kizlar Russia		2008	13/11	Mo
490	KO	Koshany Ukraine		1958	13/11	Mo

### *Following received on MWC Winradio 313 online receiver*

220	BX	Lourdes-de-Blanc Canada		0557	19/11	Mo
263	QY	Sidney Canada		0559	19/11	Mo
276	YHR	Chevery Canada		0718	28/12	Mo
281	CA	Cartwright Canada		0601	19/11	Mo
320	DO	Djupivogur Iceland		0614	30/10	Mo
323	UWP	Argentia (USN) Canada		0602	19/11	Mo
326	FC	Fredericton Canada		0603	19/11	Mo
340	YY	Mont Joli/Rimouski-Luceville Canada		0647	19/11	Mo
356	AY	St Anthony Canada		0607	9/11	Mo
358	NL	St John's/Signal Hill Canada		0610	19/11	Mo
366	YMW	Maniwaki Canada		0612	19/11	Mo
372	OZN	Ikerassassuaq/Prins Christian Sund Greenland		0614	19/11	Mo
373	YXK	Rimouski Canada		0654	19/11	Mo
378	HO	Hopedale Canada		0637	19/11	Mo
385	NA	Natashquan Canada		0616	19/11	Mo
390	JT	Stephenville Canada		0617	19/11	Mo
392	ML	Charlevoix Canada		0617	19/11	Mo
396	JC	Rigolet Canada		0618	19/11	Mo
443	AL	Almaty Kazakhstan		1823	28/10	Mo
499.3	PAT	Pirate Beacon Ireland ?		1916	26/11	Mo
499.3	PAT	Pirate Beacon Ireland HELL Mode "transatlantic test"		0726	28/12	Mo
499.3	PAT	"PAT 06" CW mode			26/11	DT



499.3	PAT	“HELL O PAT” HELL mode	1010	27/12	DT
499.3	PAT	“ATLANTIC TEST” HELL mode	0820	28/12	DT
499.3	PAT	HNY 07	2135	31/12	DT

DT signals received with Winradio 313i SDR receiver

Note what good DX can be heard using the WinRADIO “online” receiver available to members via the Circle’s website.

**Alan Gale** also was busy on the Navtex frequencies and sent a selection of his latest loggings.

**NAVTEX LOGS:**

dd/mm	utc	kHz	Location	COU	Slot	Lang
03/12	0230	490.0	Sao Vicente	CPV	P	PP
14/12	0015	490.0	Istanbul Turk Radyo	TUR	B	TT
14/12	0024	490.0	Izmir Turk Radio	TUR	C	TT
14/12	0200	490.0	Constanta Radio	ROU	L	RO
14/12	0255	490.0	Sidney NS	CAN	J	FF

First message received from the new Cape Verde Navtex stations:

ZCZC PE08  
021920 UTC DEZ 06  
NAVAREW II - D4A

PREVISAO ATE AS 24 HORAS DO DIA 03/12/06  
VISIBILIDADE:  
BOA, TEMPORARIAMENTE MODERADA NAS ILHAS MAIS ORIENTAIS

VENTO:  
MODERADOTA FRESCO DE ENE, POR VEZES MUITO FRESCO  
NAS REGIOES DE BARLAVENTO

MAR:  
CAVADO, LOCALMENTE GROSSO, ONDULACAO DO NNW A NE  
COM 1,5 A \_ENP M DE A  
TURA  
NNNN

**European / North American NDB Handbook 2007**

Now in its eighth year, the **ENDBH 2007** will give you the most up to date NDB information available. Its over 140 spiral-bound pages in A4 format contain data of more than 6400 NDBs located throughout Europe, the Northern African countries, and the Near and Middle East. Many of the more frequently heard transatlantic NDBs have been included, as well as NDBs operating from offshore installations such as oil platforms.

Moreover the handbook lists widely reported unidentified beacons and irregular call signs which result from so-called "negative keying". Many a NDB mystery may be solved with this kind of information on hand.

The **NANDBH 2007** with its 130+ pages is aimed at DXers located in North and South America, respectively, and contains data of more than 5600 NDBs located throughout North, Central and South America, the Caribbean and the Pacific.

The layout of the NDB handbooks is arranged for ease of use: part 1 (the reference list) shows the entries sorted by alphabetical order of the call sign and lists the carrier frequency, the modulation frequency, the authority or company taking care of the NDB, name and location of the NDB,

country in ITU code, geographical coordinates, distance, Great Circle bearing and Maidenhead grid locator. Part 2 of the handbook is sorted in frequency order, part 3 in country order, and part 4 gives details of decommissioned NDBs.

The CD version of the respective handbook contains all chapters of the printed version in the popular PDF file format. Having the NDB data available on your PC will allow you to easily search for specific entries. And if you would still like a printed version of the handbook, you can print it on your own now. The CD contains some additional "bonus tracks" which I hope you'll enjoy. This includes over 130 NDB pictures and more than 130 NDB sound clips plus some useful software packages to produce Great Circle maps or to calculate Great Circle distances and bearings, respectively. New: as a new feature the CD contains a Google Earth compatible waypoint file so that you can "visit" NDB locations around the globe. To run the CD you'll need a standard PC with CD-ROM drive and Microsoft Windows operating system.

As a special benefit to the users of my NDB handbooks, the distances and Great Circle bearings are computed for the individual listener's location. Please don't forget to specify the geographic coordinates of your listening post when ordering (recommended format to be used: degrees/minutes/seconds). Please let me know whether you prefer the distances shown either in kilometers or in miles. Where to order

To get your copy please send your order and advance payment to the following address:  
 Michael Oexner, Hainfelder Str. 1, D-76835 Roschbach, Germany.      michael.oexner@web.de

**Delivery time**

All handbooks and CDs will be produced individually, so a production time of 2 weeks should be expected. Surface mail delivery to the US can add another 8 to 10 days. Since all copies are custom made the user can be sure that his/her copy will have been updated right to the time it was printed.

**Price**

	Europe	Surface mail to North America	Airmail to North America
<b>ENDBH</b>	€30 / £25 / US-\$ 35	US-\$ 35	US-\$ 45
<b>ENDBH CD</b>	€25 / £20 / US-\$ 30	US-\$ 30	US-\$ 35
<b>NANDBH</b>	€30 / £25 / US-\$ 35	US-\$ 35	US-\$ 45
<b>NANDBH CD</b>	€25 / £20 / US-\$ 30	US-\$ 30	US-\$ 35

**How to pay**

European customers: via bank transfer using BIC and IBAN codes (please contact me for the details). US or Canadian customers: please send personal checks, cashier's checks, or postal money orders made out in US-\$. Alternatively you can send your payment in the form of bank notes (Euro, British Pound, US Dollar). If you are using this method though do be sure to take the usual precautions of concealing them well inside your letter. PayPal: if you want to pay online you can use PayPal to securely send your payments.

**Finally**

So as I write this column let me welcome you all to 2007, and let us look forward to many good utility catches on the bands below 5MHz. Please share those catches with us by sending them to me, [utility@mwcircle.org](mailto:utility@mwcircle.org), for inclusion in this column. January loggings deadline for guaranteed inclusion will be Monday 22nd January 2007

Dave G8SZX

# REVIEW: DSCdecoder 3.8a

with Alan Gale

**INTRODUCING “DSCdecoder”– THE NEW KID ON THE DGPS BLOCK:** In December 2006 I was very pleased to hear from the creator of the popular COAA suite of decoding programmes that their well established “DSCdecoder”, which was originally designed to decode the DSC and NAVTEX signals on MF/HF and VHF, was now able to decode DGPS signals as well as of version 3.8. At the price this programme was being offered at, it looked like it could be the ‘missing link’ that the DGPS Dxing community had long been waiting for. Naturally I was only too keen to try this out and see what it had to offer, and how it compared with the other two established decoders on the market, and the following sections take a good look at how this programme operates, and what it has to offer for the already active, or budding DGPS Dxer:

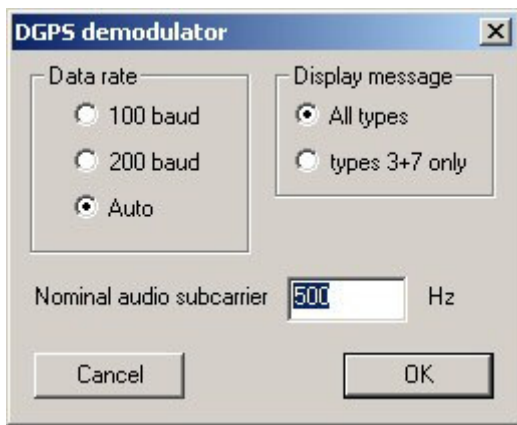
**SO WHAT IS DIFFERENT ABOUT THIS DECODER THEN?** One thing that is immediately noticeable is that the user can download a fully-working evaluation copy for a period of 21 days, which is excellent news for anyone who is thinking of trying out this mode for the first time, but doesn’t want to spend a lot of money on a something which they might not like. This has always been one of the drawbacks with Skysweeper, which in demo mode will only decode pre-recorded .wav files, and can’t decode signals in real-time in its unregistered form. A number of enthusiasts have told me this did put them off a bit, since you can’t really get a feel for how sensitive a decoder is until you have used it under ‘battlefield conditions’ on weak or noisy signals, but with the high cost of the software, you have to be really keen to be prepared to take a gamble that you will like the DGPS mode, or require one of the other modes it offers before you shell out on a full copy.

DSCdecoder’s 21 day evaluation period will allow you to get a good idea of just how well it will work for you, and you can also try out its other modes too, which is good news for those who also like to monitor the DSC and NAVTEX channels. I know that a number of MW enthusiasts already like listening for the DSC signals on 2187.5 kHz, but for the purposes of this review, I just wanted to concentrate on its DGPS decoder and its new DGPS decoding abilities.

One of the first thing that is noticed on opening the DSCdecoder interface is just how different it looks to the other two available DGPS decoders, and I first had to spend a little time familiarising myself with its controls and settings, and trying out all the different options. One thing that quickly caught my eye was the ‘chart’ option, which will take the information from certain types of decodes and translate them into a position on a map of the world, which comes as standard with the programme. This was quite a novel idea, and probably originally designed to show the positions of transmitting vessels using the DSC mode, but it was nice to see just where a DGPS beacon was located, rather than having to dig out an atlas (or Google Earth) and look it up on there every time. I assume that this function was mainly intended for the DSC and NAVTEX modes, but it was an interesting option to experiment with in the DGPS mode too.



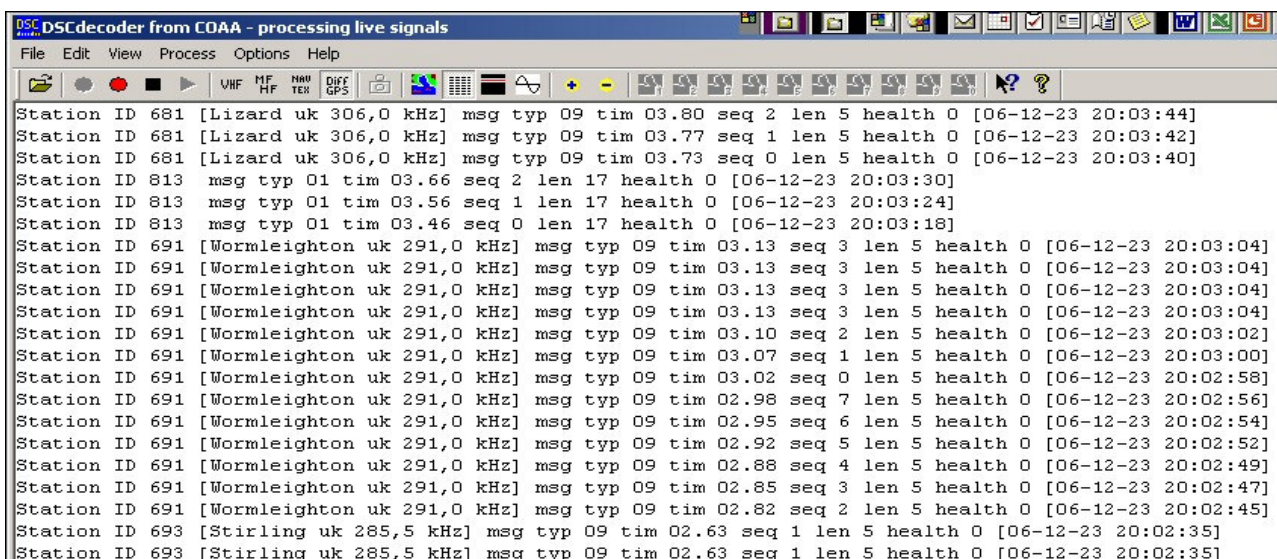
In the image above we can see the DSCdecoder toolbar, and as you can see, the modes can quickly be selected by clicking on one of the toolbar buttons, or alternatively by clicking ‘options’ and selecting it from the drop-down menu that appears, which will also offer the user a number of other options too. On clicking the DGPS button initially, you will see a box appear as in the example on the next page, where you will be able to select the required baud rate, and match the audio to your receiver’s BFO output or pitch (**NOTE#** the default setting is 1700 Hz, mine shows 500 Hz, since this is the pitch that I normally have my receiver’s BFO set to!).



Once you have chosen your desired settings, be sure to 'save' your configuration by clicking on 'file' and then 'save configuration', this will give you five choices A,B,C,D or E, you can choose one of these and then easily bring up all of your own personal favourite settings from here the next time you open the programme if you need to.

On the left-hand side of the toolbar you will see a green button, and clicking on this will start the processing of the audio signals. To the right of this is a red button, and clicking on this will allow you to easily record .wav files, and you will notice when you click on this that the button to the left of it shows a small black square, this is the button that you use to stop your recording. The button to the right of this displaying a small black triangle is your playback button. Next we see four buttons showing the legends 'VHF', 'MF/HF', 'NAVTEX' and 'Diff GPS', these are the shortcuts to the mode selection, so the latter one is the one we require to decode our DGPS signals. To the right of the 'Diff GPS' button is a small icon showing a camera, this allows you to take a screen dump of the displayed chart, again a very useful function, since I normally have to open Paint Shop Pro and use the 'Screen Capture' facility to do this in other programmes. The next four buttons are 'Chart', 'Messages', 'Spectrum' and 'Signal', and selecting either of these will choose what you see on your screen, e.g. 'Chart' will show a map of the globe, which will indicate the location of the beacon or station if the necessary text is decoded, and 'Messages' will display the actual decodes. 'Spectrum' and 'Chart' display information about the incoming signal, so for DGPS you will generally want the 'Messages' button selected for your DGPS decoding. To the right of these are some + & - buttons, these are used for zooming in and out on the chart, and finally, there are a row of 10 'Quick Chart' buttons, which enable you to open a predefined chart with a single click. The programme also comes with a very useful 'Help' file too, which will answer most questions.

**STARTING YOUR DECODE:** We have now opened the programme, selected 'Diff GPS' from the button on the toolbar, and chosen our required baud rate of either 100 or 200 baud (this will be set automatically if 'Auto' is selected), and then opened the 'Messages' window, and now, if your soundcard settings are correct (you can check this by clicking 'Options', 'Audio' and 'Soundcard' from the drop down menu), we should now be ready to go, and we can now set our receiver to one of the DGPS channels between 283.5 kHz and 325 kHz and see what appears.





As you can see in the data above, the message window displays the Station ID, which is one of the main items that DGPS Dxers are interested in, and to the right-hand side of that we can also see that some of the stations names are displayed too, this is because from version 3.8a, the user can edit the DGPSSTN.txt file, and add the additional data from some source such as my own World DGPSMasterDatabase, and this will then be displayed on the screen as the signal is being decoded. Message Type, and the Date and Time that the message was received are displayed next (in this case this is in yy/mm/dd format, or the 23rd of December 2006).

Once you are happy that all is working okay and that your message types look okay (the more common types are the Type 1, Type 3, Type 7 and Type 9 messages), then you are ready to try it out on the weaker signals (please note that 'phantom' decodes are possible from time to time with most decoders, so any message types other than the ones listed above should be treated with caution. There is some information about this subject later in this document, but I would also recommend that readers should refer to the article called "DGPS Formats" by Brian Keyte, which is available from <http://www.beaconworld.org.uk/dgps.htm> for a lot more information about the various message types and how to spot any 'phantom' decodes.

Some DGPS stations will also broadcast a "Type 7" Beacon Almanac message at regular intervals (often 15 or 30 minutes) as well as the more usual 'Type 1' and 'Type 9' formats, and, according to the information in the Help File, when this happens the DSCdecoder displays this information in the 'View - Messages' screen and also plots the position of each beacon with a conventional radio beacon symbol on the View - Chart screen. The label gives the numeric ID of the station in square brackets.

**CONCLUSIONS:** One thing that really impressed me about this programme was just how simple it was to use once the user had got used to the interface and set it up to their satisfaction, and also just how well and how quickly it locked onto a signal, which isn't always the case with the more expensive Skysweeper programme. I would also like to say that Bev, the programme's creator, is very amenable to any suggestions for improvements, and version 3.8a was quickly produced to add a few extra features at the request of a number of users. Registration of the programme after the 21 day trial period ends is a very reasonable 25 Euros (about \$33 US, or £17 GBP), and, with the additional bonus of also being able to decode DSC and NAVTEX signals as well, is a real bargain at that price in my opinion, and really fills the need for a reasonably priced and effective programme for those who can't afford the more expensive Skysweeper software, or who are no longer able to run RadioRaft due to having upgraded their operating systems to Windows XP.

I certainly like it, and the more I use it, the more impressed I am with it, and I would definitely recommend that anyone reading this guide and wondering if DGPS Dxing is for them, gives it a good try out first. I am sure that many Dxers who have often thought about this mode, but been put off in the past will now have no excuse for not giving it a try. DSCdecoder 3.8 arrived as the perfect early Christmas present for all DGPS enthusiasts, and will be a most welcome addition to members of the DGPS fraternity in my humble opinion, especially if the later versions continue to develop the DGPS decoder's abilities. A very welcome Windows alternative to the DOS only RadioRaft!

## **SYSTEM REQUIREMENTS & DOWNLOAD DETAILS:**

C.O.A.A. also produce a number of other useful programmes, such as 'Ship & Planeplotter' and more information on these can be found on their website. You will require at least a Pentium level PC running Win95/98/Me/2k/XP, and also a compatible sound card. Registration can be made securely on-line from the above page, and it costs only Euro €25 (plus VAT for EU residents) for personal use. A higher fee applies for professional or commercial use of the programme, which can be downloaded from the following site: <http://www.coaa.co.uk/dscdecoder.htm> My thanks to COAA for the review copy of the programme, which is now a firm favourite at this QTH.



# NORTH AMERICAN NEWS

✉ 20 Ryehill Park, Kirklington, Carlisle CA6 6BH

with Barry Davies

e-mail: [na-news@mwcircle.org](mailto:na-news@mwcircle.org)

Welcome to another round up of what's been happening on the North America AM dial. May I express my gratitude to the organisations which make the column possible? Thanks month to: -DX- midAmerica, IRCA, NERW, RadioAndRecords.com, Ohio Media Watch, Upper Midwest Broadcasting,

- 550 CHLN** Trois-Rivieres QC. This FF talker has been granted a move to 106.9 FM.
- 590 CKRS** Jonquiere QC. This FF talker has been granted a move to 98.3 FM.
- 630 CHLT** Sherbrooke QC. This FF talker has been granted a move to 102.1 FM
- 630 CFCY** The last full-power AM station on PEI has finally gone silent. CFCY spent late December broadcasting an open carrier after ending simulcasting 95.1 FM. Now it's history - and so PEI becomes the first Canadian province to go all-FM
- 790 KFGO** Fargo ND. This talk station has been sold. No news of format flips.
- 850 WKNR** Cleveland OH. This Fox sports station has been sold. No news of format flips.
- 1140 KGEM** Boise ID. This one drops nostalgia and is now oldies!
- 1150 CJRC** Gatineau QC. This FF talker has been granted a move to 104.7 FM.
- 1200 WKOX** Framingham MA. Drops the Air America talk shows and flips to a SS tropical music format with the tag "Rumba 1200/1430 AM Orgullo Latino." Frequent IDs mention both frequencies. EE legal ID at toh and all ads are in English so far.
- 1200 / 1430 AM** *Progressive Talk* Probably have not yet sold any ad space to SS speaking ad-buyers (Whitt)
- 1270 WKBF** Rock Island IL. The station has left the Air America talk "network!" The station is now "Truth 12-70" which is a religious talk format.
- 1280 KVOX** Moorhead MN. This sports station has been sold. No news of format flips.
- 1300 WTMM** Rensselaer NY. The ESPN sports format has been switched to WABT FM. A women' orientated talk format is a new year probability on 1300.
- 1360 WSAI** Cincinnati OH. Still a talker but **not** Air America. New slogan is "13-60 The Source.com" The format features advice and consumer oriented talk shows.
- 1390 WRIG** Schofield WI. Format changes from nostalgia to oldies.
- 1410 WMYR** Fort Myers FL. This religious station is on reduced power. (1kW) The transmitter site was recently vandalised. The perpetrators were after copper. The station which runs // 1660 WCNZ should be back up to 5kW in a few weeks. (Jarmo Patala)
- 1430 WXKS** Everett MA. // WKOX 1200 (see above)
- 1460 WXBR** Brockton MA. New calls. (ex WBET) Still a talk station.
- 1470 WLOA** Farrell PA. Oldies are out and sports talk is in from Sporting News Radio.
- 1600 KEPN** Lakewood CO. Call change. (ex KCKK) Format flips from country music to ESPN sports talk radio. (Patrick Griffith)
- 1610 CHHA** Due to interference problems caused by their transmitter being located in a residential area of Toronto, CHHA-went silent Dec 1<sup>st</sup>. They have applied to the CRTC to move the 1 kW transmitter southeast near the Toronto harbour
- 1670 C\*\*\*** Gatineau QC. Application in for FF children to teenager station. (Deane McIntyre)
- 1700 KVNS** Brownsville TX. Out goes EE talk and in come SS Regional Mexican.

The liberal talk radio network **Air America Radio** is up for sale! I guess the writing was on the wall with many station jumping ship or network hi! That just about clears my "In Tray" for another year so I'll sign off with wishes for a Happy New Year & good DX all around The Circle.

Barry



# WORLD NEWS

[Europe, Asia, Africa]  
with Renato Bruni

Strada Borghetto 43, 43100 Parma, Italy  
e-mail:world-news@mwcircle.org

## Denmark

Long wave station in Kalundborg to be closed - medium wave will continue. Initially DR (Danish Broadcasting Corporation) wanted to close down both the medium wave and the long wave transmitters in Kalundborg operating on 243 and 1062 kHz by the end of 2006. But the Danish Ministry of Culture has decided that DR must continue using medium wave till at least December 31 2010. It is however uncertain which programmes will be carried on 1062 in the future. Director of DR Radio, Leif Lønsmann, says to [radionyt.com](http://radionyt.com), that DR is going to air navigational warnings, weather forecasts and possibly newscasts on medium wave - but no final decision on this has been taken yet. The switch off of the long wave station [243 kHz] in Kalundborg is expected sometime during the spring of 2007. *Stig Hartvig Nielsen via <http://www.mediumwave.info>*

## Egypt

Checking the MW frequencies around 1930 UT today 8/12/2006 I noticed that Idha`at al-akhbar (News Radio) is on 1071 kHz. Previously that frequency was occupied by Idha`at al-kahira al-kobra (Greater Cairo radio), but sounds like the change has taken place, as greater Cairo radio is on FM band, so the media people want to have the news radio more audible for listeners all over Egypt, not only on FM band in Cairo. *Tarek Zeidan, Cairo, Egypt via DX Listening Digest*



## Faroe Islands

Since October 1st, Kringvarp Føroya (Faroese Broadcasting Corporation) has 24h. service, including 531 kHz. During 2300-0700 local time (=UTC) non-stop music without any interruptions. After merging with the faroese television January 1st, 2005 the name has changed to Kringvarp Føroya (from Utvarp Føroya). (Sámal J. Samuelsen, Kringvarp Føroya via Ydun's Mediumwave Info) The article (dated 27 December 2005) is about plans of the government to buy a replacement for the aging 200kW MW transmitter from 1990. The initial plan was to buy a 25kW tx to cut down expenses, but then there were strong voices in the parliament to buy again a 200kW tx, since a 25kW unit would not reach all of the Faroese fishery fleet. The following image gives more details and also shows the coverage for each power figure: *Bernd Trutenau, Lithuania, via*

## Finland

YLE Radio Finland, Pori 963 kHz closed down the MW station officially on 31st December 2006 at 21:59 UTC. The last hour consisted of Finnish language debate about the Pori SW-center, the Finnish national anthem and YLE interval signal. It is a really sad decision that YLE decided to shut down 963 kHz. Finnish truck drivers are very angry right now. MW 558 kHz from Sandhamn in Helsinki will continue as a service to the Baltic Sea. All the YLE SW services are also closed down from the 1st January 2007. *Hannu Romppainen via MWC and Bengt Ericson via ARC Information Desk via Olle Alm via DXLD*

## France

The plans for French MW station (1593 kHz) - Littoral AM - have been withdrawn. They missed 32 000 euros in the budget of investments. They had already installed antenna in the planned site in Lamballe, Saint Goueno (Bretagne). But it now remains unused, at least by Littoral AM. (<http://www.littoralmedia.fr/littoralinfos.htm>) You can see pictures of antenna construction work at Thierry Vignaud's website: <http://perso.orange.fr/tvignaud/galerie/am/22stgoueno.htm>

The French media authority CSA has withdrawn the mediumwave licences of Superloustic (ex 675 and 999) as well as Radio de la Mer (ex 1080). Kai Ludwig via dxld via Ydun's Mediumwave Info

## Germany

AFN Network programs on European AM

873 Oberursel (Weißkirchen) - Power Network Hessen

1107 Amberg - AFN Bavaria "The Eagle"

1107 Grafenwoehr - AFN Bavaria "The Eagle"

1107 Kaiserslautern - Power Network Kaiserslautern

1143 Bamberg - Big Red Radio (Mixed programming, mostly "The Eagle")

1143 Bitburg - Power Network Eifel

1143 Heidelberg - Power Network Heidelberg

1143 Moenchengladbach - AFN SHAPE

1143 Stuttgart - Power Network Heidelberg

1143 Wuerzburg - Big Red Radio (Mixed programming, mostly "The Eagle")

1485 Hohenfels - AFN Bavaria "The Eagle" *Andreas Wohlhaupter-D via A-DX via WWDXC Top News*

In 2007, German public broadcaster Deutschlandfunk will play the European anthem, Beethoven's "Ode to Joy", after the German national anthem at closedown. Germany takes over the chairmanship of the European Union for six months starting on 1 January, and playing Ode to Joy was the idea of German Chancellor Angela Merkel. The European anthem is largely the work of German artists. A poem called by German Friedrich Schiller (1759-1805) was set to music by Ludwig van Beethoven (1770-1827) as part of his 9th symphony. Austrian-German conductor Herbert von Karajan (1908-1989) made the arrangement which was adopted in 1985 as the official European anthem. *Medianetwork, Source: ANP/AFP*



## India

All India Radio has installed new MW -transmitters in:

Drass 1485 kHz (Jammu & Kashmir),

Kargil A 684 kHz (Jammu & Kashmir),

Kargil B 1584 kHz (Jammu & Kashmir),

Himmat Nagar 1584 kHz (Gujarat),

Tiesuru 1602 kHz (Jammu & Kashmir) *Jose Jacob via DX-India via NTT Aktuell/Dr. Hansjörg Biener*

## Indonesia

New or newly discovered MW stations:

612 kHz Lombok: R. Yayasan Atthohiriyah Alfadlilah (Radio Yatofa), Bodak, Praya, Lombok Tengah, Nusa Tenggara Barat

774 kHz Tangerang: R. Klasik Galih Lestari (Gless Radio)

837 kHz Jakarta: R. Garis Visi (Radio AM Moslem), c/o Jalan Kampung Melayu Kecil III 40, Tebet, Jakarta

882 kHz Majene: R. Pemerintah Kabupaten Majene, Jl Gatot Subroto 59, Majene, Sulawesi Barat

891 kHz Ternate: RRI Ternate (NB daytime only operation on mediumwave)

900 kHz Demak: R. Qolbu

1152 kHz Bali: R. Pemerintah Kabupaten Jembrana, Jl Jenderal Sudirman 25, Negara, Jembrana, Bali

1188 kHz Yogyakarta: R. Anak Pemkot Yogyakarta, Taman Pintar, Jl Panembahan Senopati, Gondomanan, Yogyakarta.

MW stations having changed frequency:

909 kHz Blora ex-1494; 1071 kHz Pacitan ex-1365; 1116v kHz Surabaya ex-1080; 1224 kHz Sumenep ex-1233; 1350 kHz Surabaya ex-1332; 1449 kHz Surabaya ex-1467v *Alan Davis-INS; via ARC MV-Eko Dec 18*

## Iran

Radio Golestan in Gorgan, Iran seems to have a high power transmitter on 1368 kHz. Heard very well with full ID " Injah Gorgan ast, Radio Golestan" and local programming at 1500 thanks to tip from Mauno Ritola. Excellent signal every afternoon in Växjö. According to MR the Iranian stations have introduced a new ID-style: " Injah (capital) ast Radio (province)". Same type of ID heard from other Iranian stations. *Bengt Ericson, ARC Information via Olle Alm via DXLD via <http://finndxer.wordpress.com>*

## Ireland

I have just received word that RTE are to switch off their MW transmitters from the end of 2007. This would mean the end of 567 and 729 and basically the death of high-power MW in the Republic of Ireland. Instead, there would be quasi-national AM Christian services for which applications have currently been received at the BCI ([www.bci.ie](http://www.bci.ie)). *Herman Boel via EMWG list*

Irish public broadcaster RTÉ has confirmed that the 252 kHz site (200kW in analogue) is to have a new transmitter installed this week to allow the transmission of DRM on this frequency. At present, a date has not been set, but initial tests will take place in DRM mode between 0200-0500 UTC,

simulcasting RTÉ Radio 1. The power for the DRM broadcasts is not yet known. *Source: "Jimbo" via DRM Software Radio Forums via <http://blogs.rnw.nl/medianetwork/>*

## Lithuania

Former Pirate station KBC Radio from the Netherlands is back on the air starting December the 23th on 1386 KHz AM with 500.000 Watts from Kaunas every saturday evening from 23.00 -



24.00 CET. In the seventies and eighties KBC was a very active pirate on shortwave and mediumwave. They are working on a special KBC International website...coming soon. Programs are mainly in English. 500.000 Watts of Musical Power, The Mighty KBC Contact the station at [info@k-po.com](mailto:info@k-po.com)

December 23, 30 1386 Kaunas 500 Omnidirectional 23:00-24:00  
January 6, 13, 20, 27 1386 Kaunas 500 Omnidirectional 23:00-24:00  
February 3, 10, 17, 24 1386 Kaunas 500 Omnidirectional 23:00-24:00  
March 3, 10, 17, 24, 31 1386 Kaunas 500 Omnidirectional 23:00-24:00  
April 7, 14, 21, 28 1386 Kaunas 500 Omnidirectional 23:00-24:00  
May 5, 12, 19, 26 1386 Kaunas 500 Omnidirectional 23:00-24:00  
June 2, 9, 16, 23, 30 1386 Kaunas 500 Omnidirectional 23:00-24:00  
July 7, 14, 21, 28 1386 Kaunas 500 Omnidirectional 23:00-24:00  
August 4, 11, 18, 25 1386 Kaunas 500 Omnidirectional 23:00-24:00  
September 1, 8, 15, 22, 29 1386 Kaunas 500 Omnidirectional 23:00-24:00  
October 6, 13, 20, 27 1386 Kaunas 500 Omnidirectional 23:00-24:00  
November 3, 10, 17, 24 1386 Kaunas 500 Omnidirectional 23:00-24:00  
December 1, 8, 15, 22, 29 1386 Kaunas 500 Omnidirectional 23:00-24:00  
*Eric van Willegen (25/11-2006) via <http://mediumwave.info/news.html>*

## Libya

Thanks to my friend Mauno Ritola for the help: we have found that the transmission upon 753.5 kHz that interfere with Radio Romania (756) is in parallel with 1251 and 711. This evening there were Voice of Africa on the three frequencies. I noted also a strange behaviour: the audio in 753.5 came one or two second after the other two. In the morning there is a strong carrier in the channel.  
*Salvo Micciché via HCDX*

## Luxembourg

Radio Luxembourg, the English service of RTL which broadcasts on the Internet and digital shortwave, has relaunched its website with some additional features, including news headlines. There are some new forums, including one devoted to the relaunch of the station, and a lot of new photos have been added. There have also been some on-air changes. According to the Home Page "New schedule, new jingles, new station voice, news, a few new faces and a brand new look to our website. Radio Luxembourg is even more dedicated to bringing you the best in Classic Rock.because here at Radio Luxembourg we like music the way it should be." *Radio Luxembourg*  
<http://www.radioluxembourg.co.uk/> via Media Network

## Morocco

1638 kHz, RTM-"A", Rabat, 1057- 02 Dec, Arabic, talks, news 1100; harmonic of 819; 34443, QRM de harmonic (!) of R. Euskadi 819, Donosti, Spain *Carlos Gonçalves, Portugal, DXLD*

## Netherlands

The Radiocommunications Agency Netherlands has announced that holders of medium wave licences may now apply for a modification to the licence to allow them to use the Digital Radio Mondiale (DRM) system. The Agency highlights three benefits of DRM over analogue: a) Greatly improved audio and reception quality b)The possibility of transmitting additional data services c) Lower power is necessary (less environmental damage and lower energy costs) The Agency also points out the disadvantage that listeners first have to buy a new DRM receiver. For existing medium wave licence holders, there are three options: Continue broadcasting in analogue (no further action necessary) Replace analogue with DRM, in which case the licence holder needs to request a modification to the existing licence *Andy Sennitt*

Dutch commercial broadcaster Radio Waddenzee/Radio Seagull, based in Friesland, is currently broadcasting via a KPN transmitting mast near the village of Moddergat. The reason is that the

main transmitting facility is being moved from Finkum to Pietersbierum, near Harlingen. This means the mast has to be dismantled, moved to Pietersbierum and then reassembled. Radio Waddenzee/Radio Seagull broadcast on 1602 kHz with a power of 1 kW, and they say that the coverage area from the temporary facility is approximately the same. Broadcasts via this facility are expected to continue until at least 1 March 2007. Radio Waddenzee broadcasts from 0600-1800 UTC, and the rest of the time the station operates in English as Radio Seagull. *Radio Waddenzee via Andy Sennitt*

## Norway

Northern Star project to continue with new name after another setback. After Norkring AS announced in 2003 it was not able to house the AM 216 frequency at its short wave site in Sveio, Northern Star International Broadcasters AS decided to follow a more flexible strategy: The company decided to keep the offer for 216, while concentrating on campaigning for another Norwegian high power channel AM 1314, knowing this was likely to be given up by the NRK in 2006. It was thought that starting transmissions on this channel, besides of making revenue, would open up the complex challenges regarding building the long wave station. Subsequently, for 3 years there has been a low-profile process with extensive lobbying work in the bureaucracy and the leasing market to get this alternative frequency and its present site.

At the end of July 2006 at last the company was able to register a significant success as it secured an exclusive offer for the combined 1314 package from Kvitsøy 24/7. This process has temporarily stopped though as the investors (and the company itself) thought the price asked by the site owner was much too high. It has emerged that at the same time the 1314 frequency permit (not a license) has been advertised in Oslo. At the moment, it is not clear what this will mean for our process. Northern Star International Broadcasters AS at any rate has decided to broaden its flexible strategy and will now with interested investors also consider transmitter sites in other countries including other frequencies and wavebands than 216, 1314 and Long and Medium Wave. Northern Star International Broadcasters AS also has decided that this is a good occasion to re-launch the project with a new name: Radio Norway International. The proposed on-air identity is new, but the Northern Star project is continuing. <http://www.northernstar.no>

## Poland

A third community radio station started on 963 kHz: Twoje Radio Lubliniec, with 0.1 kW. The station has own programming at 0600-0700, 1600-1700; at other times it relays PR Radio Katowice. No signal before and after 2000 on 1080, so it seems that Radio Racja has indeed abandoned the Koszecin transmitter. *Kai Ludwig, WORLD OF RADIO 1342*. From 1 January Radio Racja is on 6090 kHz from 1600 to 1800 UT instead of Koszecin 1080 kHz 2000-2200 UT. *Marek Kosmala, Lublin, Poland DX Listening Digest 7-001*

## Portugal

1035 kHz. R. Nacional, Belmonte, is off for quite a number of days now. *Carlos Gonçalves, Portugal, DXLD 783 kHz R. Nacional, Avanca 100 kW (tent), 1517-..., 31 Dec 06*, silent carrier probably for testing prior to a much delayed start (scheduled for Summer 2006!), S9+5 dB via the 145 deg. CeAfr Beverage, QRM de POR Canidelo 10 kW (but the tx is in a mess). Now, I can't really actually state this was Avanca, but at that time, that strong, that bearing, it should be Avanca testing again. (Carlos Gonçalves-POR) "is not confirmed after all. Acc. to the stn (I had to call the northern office in Porto which is where the techn. dpt. is located), the launch of the Avanca site was again postponed due to extensive operations re. sister stn R.Club (Portugues), which may resume MW or stay as it is, i.e. on VHF-FM only. So, if that is correct, what on earth was the strong carrier on 783 at that time - surely not E or MTN. It was noted other times too. R. Nacional 1035 kHz 100 kW Belmonte This was also discussed: it's said to be at just half the nominal power, and they regret that so many technical problems is causing this site to be off the air so often. *Carlos Gonçalves-POR, wwdxc BC-DX Jan 4*

## Romania

Summary of private radio stations on mediumwave:

1485 (1kW): Micul Samaritean in Bacau and Medias

1485 (1kW): Micul Samaritean planned (licensed) in Oradea

1485 (1kW): Vocea Sperantei planned (licensed) in Botosani (fq formerly licensed to R. Favorit)

1584 (1kW): Micul Samaritean in Bistrita, Craiova, Radauti, Sighetul Marmatiei and Suceava

1584 (1kW): Radio Sud planned (licensed) in Giurgiu

1584 (1kW): Radio 7 Est planned (licensed) in Iasi (fq formerly licensed to R. Favorit)

1602 (1kW): Micul Samaritean in Piatra Neamt

1602 (1kW): Radio Sud Est in Slobozia

1602 (1kW): Radio CNM in Arad

1602 (1kW): Vocea Sperantei planned (licensed) in Bistrita (fq formerly licensed to R. Favorit)

The following licenses expired or were withdrawn: Aurora FM (Bacau & Galati 1584, Focani & Iasi 1602), R. Maria (Oradea 1584), R. Favorit (Botosani 1485, Iasi 1584 and Bistrita 1602), Micul Samaritean in Fagaras, Sânnicolau Mare and Tulcea on 1584. *Bernd Trutenau-LTU via mwdx mailing list*

## Russia

The Kremlin has apparently pulled the plug on the BBC following the London killing of defector Alexander Litvinenko "The London Paper" on November 28 reported that "The BBC's Russian Service has been off the air in Moscow and St Petersburg since last Wednesday due to what Russian authorities have described as 'technical problems'. One insider put it differently, however: "They turned the transmitter off." Livinenko issued a statement from his death-bed claiming that he was poisoned on the orders of President Putin *Roger Tidy, UK, Nov 28, DXLD*

## Serbia

Regional station Radio Valjevo, Serbia on 1368 kHz can be heard with fair-to-good signal at around 1400-1558\* UTC. News, interviews featuring local affairs and a lot of music (mostly English pop oldies). QRM: Iran. *Vlad Titarev, Ukraine, mwdx via BCDX via DXLD*

## Sudan

The "Al-Sharq" ("The East") radio station broadcasting from Sudan to Eritrea on mediumwave (quoted as "Eastern Radio" in the DX press in November 2005, see item below) was closed in early November 2006. *Bernd Trutenau-LTU via mwdx*

## Ukraine

1359 Radio Tsentr (regional station from Donetsk) is on 24h nowadays. Except 1930-2000 when it relays Radio Polonia, Ukrainian. TX Dokuchayevsk (dozen km south of Donetsk). Major QRM here: RNE & RSM (Perm). Also Iran (possibly regional sce from Lar). Detailed ID at each ToH and at other times.

## Zimbabwe

The Zimbabwe government will start rehabilitating and upgrading the existing radio and television transmission network this year while possibilities of expanding coverage are being explored. Acting Minister of Information and Publicity Cde Munyaradzi Paul Mangwana told The Herald recently that the Government had made provisions for the upgrading and rehabilitation of existing infrastructure in the 2007 budget and work is expected to commence in January.

The move follows complaints that there was limited or no radio and television coverage in remote parts of the country, forcing people in the affected areas to receive external transmissions. (*This can be interpreted to mean that the Government doesn't want people listening to non-government voices.*)

# THE HOME FRONT

[British & Irish News]  
with John Williams

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## OFCOM News

### **Ofcom chief says that regulation of radio is outdated**

**21 December, 2006**

Ed Richards, Ofcom chief executive, gave warning yesterday that the laws governing radio appeared outdated, even though they were adopted only three years ago.

The comments suggest that the watchdog is willing to embrace radical deregulation to help commercial radio, which is being squeezed by declining advertising and an increasingly popular BBC. In an interview with *The Times*, Mr Richards was asked whether the 2003 Communications Act — which governs the regulation of television, telecoms and radio — was in any need of updating. “In radio, the legislation is not in step with the speed and pace of change in the sector,” he said. “The model of local and licence regulation is under great pressure; these are tough times in radio and we need to respond and adapt.”

In contrast, Ofcom’s chief executive said that regulations governing telecoms and television “feel more robust” in comments that hinted at the depth of concern at the communications regulator about the long-term prospects for commercial radio. Commercial radio remains tightly regulated in the UK despite some recent attempts at liberalisation. Ofcom determines where companies can broadcast, tightly sets station formats, regulates the supply of news and restricts the ability of local stations to syndicate programming, creating nationally recognised shows.

Next year, Ofcom plans to revisit plans to introduce a “public service publisher” — a £300 million-a-year fund to supply high-quality UK “public service broadcasting” — which had first been suggested two years ago, although plans have advanced little since. ([www.thetimes.co.uk](http://www.thetimes.co.uk))

### **Proposal to switch off AM radio gets a mixed reception**

**29 December, 2006**

At the time, few outside of a small band of scientists and sailors noticed what was one of the last Century’s earliest scientific breakthroughs. On Christmas Eve, 1906, Reginald Fessenden, a Canadian inventor, broadcast the world’s first AM radio programme, which included him playing the song *Oh Holy Night* on the violin, from Marshfield’s Brant Rock in Massachusetts. A few shipboard radio operators at sea along America’s Atlantic coast were the only listeners to tune in.

One hundred years on and with AM — amplitude modulation — still widely used, the debate has begun over whether the frequency should be switched off in Britain. In an era of high-fidelity competition, of digital radio and internet broadcasting, AM’s susceptibility to atmospheric interference and its low-fidelity sound, making it better suited to speech rather than music, have put it under pressure. It survived its first great challenge, when many music stations switched to FM in the 1960s and 1970s; now, however, leading radio groups are calling for the industry to unite in lobbying for AM to be turned off in 2010.

Not everybody agrees. While Capital Radio and Virgin Radio executives are keen to see an end to AM, their counterparts at groups including Emap, which owns Magic, are not.

After a recent announcement from Ofcom, the communications regulator, that it would launch a full consultation into the future of both AM and FM radio, commercial radio groups had until earlier this month to respond to a discussion document from the regulator. Ofcom suggested in *The Future of Radio* that the AM spectrum could be used for Digital Radio Mondiale (DRM). It has emphasised that the spectrum could still be used for AM in the future.

However, any future decision by Ofcom is unlikely to be simple, because Britain's leading commercial radio groups appear to have very different opinions on the future of AM radio.

A spokeswoman for GCap, the largest radio company, said that the owner of Capital Radio had been "consistently calling for the Government to set a date for the switch-off of analogue, not just AM". It believed that turning off analogue — including the FM frequency — was a crucial step in driving digital forward, which it argued was the future of radio.

Fru Hazlitt, chief executive of Virgin Radio, said that she was also keen to see an end to AM, highlighting its poor quality compared with FM and digital radio. Despite the number of listeners that AM still had, she did not want them to listen to Virgin on the wavelength because of its poor quality.

Yet Emap, which is working on its response to Ofcom, said that it would continue to broadcast on AM while there was still a sizeable audience. The group said that it had recorded a rise in Magic's AM audiences and it was still too early in the development of digital radio to talk about AM or analogue switch-off. Dee Ford, group managing director of Emap Radio, said: "We want people to be able to listen to their Emap Radio service of choice, whenever and wherever they want to — be that AM, FM, DAB or via their TV." ([www.thetimes.co.uk](http://www.thetimes.co.uk))

## Commercial Radio News

### Ad market dents GCap results

**28 November,**

#### 2006

Radio group GCap Media said today that underlying profits fell by almost one-third in the first half of the financial year, as it continued to suffer from a tough advertising market. The group was hurt by changes in its advertising policy at flagship London station Capital Radio and a downturn in overall trading conditions. That left underlying profits before tax at £8.4m in the six months to the end of September, down 32% on £12.4m a year earlier.

Britain's largest commercial radio group said in a statement: "The current advertising market remains very difficult and visibility poor. We anticipate tough trading conditions will persist over the next quarter." GCap reported revenues were down 8.4% year on year to £102.2m. However, excluding Capital Radio they were down just 4%. Updating the market on current trading, it said that September and October revenues for the group were in line with the market after excluding Capital.

Since January, the radio group has reduced the number of the ads on Capital to protect the premium paid by advertisers, running no more than two commercials back to back. The strategy, pioneered in Australia by dance music station Nova, is designed to please advertisers and build listeners in the long term but so far has damaged revenues.

The group said its priority was to enhance the performance of Capital, once London's top commercial station, stressing it had pushed through a series of improvements since Scott Muller joined as programme director this summer. Capital's makeover has failed so far to win over the hearts and ears of Londoners, coming third in reach and share behind Chrysalis' Heart and Emap's Magic.

According to the latest figures from radio measurement body Rajar, published last month, Capital lost almost one-fifth of its audience over the past year, sinking to its lowest audience and share of the London market for the second successive quarter.

## RSL & LPAM News

Details of the football club's broadcasting their home games are as follows: (the Ofcom web site still lists NO stations broadcasting!)



Football Club	Station	Jan fixtures	Feb fixtures
Crystal Palace	Palace Radio 1278 kHz	1 Norwich 20 Hull	3 Ipswich 17 Birmingham 24 Luton
Blackburn	Radio Rovers 1404 kHz	13 Arsenal	3 Sheffield Utd 24 Portsmouth
Manchester Utd	Manchester Utd Radio 1413 kHz	13 Aston Villa 31 Watford	10 Charlton
Barnsley	Oakwell 1575 kHz	13 Preston 30 QPR	10 Colchester 20 Hull
Rushden and Diamonds	Radio Diamonds 1503 kHz	1 Tamworth 20 Stafford Rangers 26 Cambridge	3 Weymouth 17 St Albans

**Garrison Radio Basingbourne Barracks 1287 kHz** (north of Royston) currently relaying Garrison Radio from Colchester. (BDXC-UK) From

<http://www.army.mod.uk/garrisonradio/newsabout/> “The newest recruit to the Army Training Regiment Basingbourn is a radio service. The Hertfordshire base has taken delivery of a medium wave broadcast system allowing staff and young recruits to tune in to Garrison Radio, the British Army’s own UK service. This is now the 6th UK location for Army Radio.

Hundreds of young recruits will be provided with alarm clock radios, allowing them to tune into the Army broadcasts and find out what is happening across the Army as a whole, during their initial training. ATR Basingbourn receives a regional feed of Colchester Garrison FM, which now includes items and information from the base itself. It broadcasts on 1287AM to staff, recruits and MoD civilians. The base was home to the famous 2nd World War US aircraft, the Memphis Belle.”

**Garrison Radio Bulford, Tidworth** Salisbury Plain, Wiltshire was scheduled to close 1287 kHz in December following the commencement of their FM service.(BDXC-UK)

### LPAM Survey

Details of the LPAM Survey are given in a separate article in the magazine.

### Community radio 'engages those most in need'

**28 November, 2006**

The new generation of community radio stations has been praised in a government report for giving a voice to under-represented sections of society.

Small-scale stations, which number around 100 to date but will eventually total 200, helped tackle social exclusion and gave a voice to people who had been ignored by mainstream media and the education system, the survey concluded.

However, the report said funding would remain a key issue for some of the stations. Ofcom currently distributes up to £500,000 a year among operators - funding which is due to be reviewed next year. Some commercial radio companies have been critical of the new breed of community stations, claiming they are under-regulated and distort the advertising market. (www.mediaguardian.co.uk)

### IRELAND

I am grateful to Irish member Kevin Ryan for the following:

The BCI recently advertised for a Christian/Religious service to operate primarily on medium wave with some FM fill-in. The bidders have all been in touch with RTE's transmitter group who advise that the new service could operate from Tullamore on 612 kHz once 567 kHz closes at the end of

2008. This is interesting as RTL is currently co-ordinating use of 567 kHz for a DRM service. The old Moydrum site just outside Athlone is not an option. There may be some use of 1278 kHz for Dublin and Cork.

In parallel with this development RTE has ordered a new DRM capable transmitter for 252 kHz in Summerhill. The power is 300 kW (AM) so I suspect that DRM would use about 100 kW. RTE expect to have the new transmitter installed by mid 2007, probably still in AM mode. If RTE does switch fully to DRM then it may require Algeria to limit its power output otherwise the UK coverage may be curtailed to the west coast.

# EUROLOG

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with John Williams

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<b>kHz</b>	<b>Station, location; details heard etc</b>	<b>SIO</b>	<b>UTC</b>	<b>Date</b>	<b>Who</b>
189	Rikisutvarpid, Reykjavik, ID, Music	333	07.00	28/12	FW
216	R. Monte Carlo, Talk	222	08.29	24/12	FW
225	PR 1 Solec Kujawski, ID, Information	222	20.30	21/12	FW
531	Utvarp Faroya, Tornshaven, News, Music	444	23.00	07/12	FW
531	RTA 1, Ain El Baida, Arabic News	444	02.00	08/12	FW
540	VRT 2 Wavre; Music John Denver	444	23.18	09/12	FW
540	Kossuth Radio, Solt, Music	332	23.00	09/12	FW
540	Onda Cero R. Cataluna, Barca, ID, News	332	02.00	10/12	FW
630	Romania Actualitata, ID; News	444	02.00	04/12	FW
630	NRK 1 Vigra, Talk, Christmassongs	444	21.50	24/12	FW
648	R. Nacional I, Granja Escuela, E, s mx, Sp	322	2029	21/10	CvR-Fj
666	SER R. Barcelona, ID, News	433	23.00	10/12	FW
666	R. Vilnius, Magazine	333	17.23	26/12	FW
666	RDP 1, Lisboa, News	222	23.00	26/12	FW
666	SER Radio Barcelona, News	444	0200	27/12	FW
810	BBC R. Scotland, Telephone Talk	333	0728	28/12	FW
819	Radio Euskadi, San Sebastián, E, Servicio Informativo, Sp	222	1704	21/10	GSc-Fj
819	RAI Uno Triest, Magazine prog	333	0715	28/12	FW
828	NDR info, Hannover ID, postal address	23432	0757	10/12	HB
828	NDR Info, German News	555	2300	26/11	FW
846	Radio Enigma somewhere in Kent?; Details of wire for tx; talk on Old TV series. Oldies then web site details given	F	1206	26/11	JW
846	Radio North, Redcastle Rlg talks, px "The World Today" + address in Wisconsin, USA + asking for gifts	23432	0810	24/12	HB
846	R. North, Oldies	222	0725	28/12	FW
882	BBC R. Wales, Talk	222	18.27	21/12	FW
945	Capital Gold, Bexhill ID, soul music	32432	0806	10/12	HB
963	R. Horizont , Bul. News	222	1710	23/12	FW
963	YLE Pori, Music "Jingle Bells"	343	1740	23/12	FW
963	Radio Horizont" ID „Horizont“ News, Music	444	0200	02/01	FW
1098	Denmark Radio 3 / 4, Pop music	444	1725	23/12	FW
1107	Radio Regina Bratislava, Christmas songs	444	0200	26/12	FW
1116	Valleys Radio, Ebbw Vale, ID	242	1021	25/10	CvR-Fj
1125	AFN Grafenwöhr, Talk, Music	333	1700	25/12	FW
1152	Radio Romania, Cluj ID, talks, light mx	32432	1420	24/12	HB
1161	Hvratski Radio Zadar, Information	333	0630	23/12	FW

kHz	Station, location; details heard etc	SIO	UTC	Date	Who
1161	BBC Southern Countries, ID, News	222	2300	22/12	FW
1170	Magic 1170 AM, Stockton, ID	444	1041	25/10	CvR-Fj
1170	Magic 1170 AM, Stockton ID "This is Magic with the best of the 60s, 70s and more", jingle	33343	0824	17/12	HB
1179	Antenne Saar, Heusweiler news and info, very weak	15421	1316	17/12	HB
1215	Virgin Radio, Christmas song from Slade	333	1603	25/10	FW
1233	Virgin 1215, Various tx	343	1043	25/10	CvR-Fj
1251	Classic Gold Amber, ID and advert for old mobile	W	1429	09/12	PJA
1269	Radio Novi Sad, Srbobran, SRB, Actuality px,	343	2010	26/10	GSc-Fj
1269	COPE Zamora, Zamora, E, Local ads break, SS	444	2118	26/10	GSc-Fj
1287	Garrison Radio Basingbourne Barracks Royston; Promo for WRVS Colchester and promo for "Garrison Radio Colchester 107 FM"	F	1303	30/12	JW
1350	Kingstown Radio, Hull, oldies,	F	1150	09/12	JVN
1386	Carillon Radio, Loughborough several IDs	F	1500	09/12	JVN
1386	Anker Radio Nuneaton, ID and news	F	1700	09/12	JVN
1413	Romania Actualitatea, News	333	1900	22/12	FW
1449	1449 Asian network (Peterborough)ad for future programme	F	1427	09/12	PJA
1503	Radio Diamonds Rushden; Talk on possibility of Man Utd being the next cup opponents. Then into 60's oldies (Stoke nulled)	w/f	1240	02/12	JW
1503	Radio Diamonds Radio vs Oxford Utd, line-ups	F	1503	09/12	PJA
1521	Classic Gold, Duxhurst ID Music	24442	1441	09/12	HB
1521	BBC R. Stoke, Talk ID	222	0730	28/12	FW
1521	SER R. Castelilon, ID, News	222	2303	02/12	FW
1521	Clasic Gold Digital, ID, news. Music	333	0200	03/12	FW
1557	Capital Gold, ID and Music	444	1620	25/11	FW
1557	Classic Gold, ID, Talk. Music	222	1615	25/11	FW
1557	Radio France Info, Fontbonne, Information	333	2305	25/11	FW
1566	Radio Osijek, ID, News	322	0158	26/11	FW
1566	County Sound Radio, Talk, Music	333	0505	21/12	FW
1575	RNT, Meudon, F, rest phased out. ID "RNT sur ondes moyennes", F	243	1623	24/10	GSc-Fj
1620	Radio Zonnester DD Pirate ID, greetings to other stations	34443	0745	10/12	HB
1655	Radio Carona DD Pirate Mx, greetings to other stations	254332	0735	02/12	HB

Many thanks to:

HB Herman Boel Aalst Vlaanderen Belgium Receiver: Kenwood R-5000 (backup: Sony SW-77)

Antenna: Kiwa Loop Antenna + longwire 15 meter

FW Friedhelm Wittlieb, Grundig Satellite 700, Martens-Fram Dortmund Germany

GSc-Fi Guido Schotsman; Cornel van Ravenswaaji; DX183 Fjerritslev Denmark; 2x AOR AR-7030, 22 beverage antennas; JRC NRD-545, AOR AR-7030,

JVN John Vinther Nielsen, Dx-camp on the island Rømø, Southwest part of Jutland. NRD 535, and 400 meter longwire on the ground against west

JW John Williams Hemel Hempstead AOR 7030 + 40m long wire

PJA Philip J. Attwell Wellingborough Sony ZS-D5 with standard whip

I am also grateful to Nigel Reid in Enfield for details of the bandscan he undertook on his Sony ICF 2001D. I am sorry that I have been unable to list them this month. The **deadline** for the next issue is 26 January, 2007

73's John

# LPAM SURVEY

[with John Williams]

I am now in a position to provide a full survey of all known LPAM stations either listed by OFCOM or known to be broadcasting and not listed by OFCOM! First of all may I thank all the MWC members who responded to my plea for information on the stations. I have listed all known stations (column 1) their location (column 2) in column 3 details of the information and in Column 4 their Status:

- 1 confirmed 100% on air by monitoring the station
- 2 probably on air based on web site info or other indirect information
- 3 unconfirmed status due to lack of information
- 4 confirmed off air by off air monitoring or station confirmation

Stations broadcasting In column 3 I have listed (i) the initials and their names are detailed below; (ii) Web listed – signifies that the information on the web site is up to date with details of their broadcasting ; (iii) Telephone call to station – I rang the station and they confirmed they are broadcasting.

Stations not confirmed broadcasting (i) Email to station – no response has been received and (ii) no email address is listed. The 12 stations have been annotated with an \*

<u>Station</u>	<u>Location</u>	<u>Heard by etc</u>	<u>Status</u>
<b><u>1134 kHz</u></b>			
<b>BFBS Gurkha Radio</b> , Gamecock Barracks,	Nuneaton	DT	1
<b>BFBS Gurkha Radio</b> Royal Military Academy	Sandhurst	BDXC-UK	1
<b>IC Radio</b> Wye Campus	Ashford Kent	RM. CA	1
<b>L&amp;D Radio</b> Luton and Dunstable Hospital	Dunstable	JW	1
<b>Queens Radio</b> , Queens University	Belfast	MH. KB	1
<b><u>1251 kHz</u></b>			
<b>BFBS Gurkha Radio</b>	York	AB SW	1
<b>KCC Live</b> Knowsley Community Station	Liverpool	Email to station*	3
<b>RAW</b> University of Warwick	Coventry	Web listed	2
<b>The Cat</b> Collegiate Institute	Warrington	AG BH PF	1
<b><u>1278 kHz</u></b>			
<b>BFBS Nepali Service</b> Shorncliffe	Folkestone	Web listed	2
<b>Crush</b> University of Hertfordshire	Hatfield	Not currently broadcasting JW	4
<b>D:One</b> University of Derby	Derby	No email address*	3
<b>Radio Royal</b> Royal Infirmary	Falkirk	KB	1
<b>SNC South</b> Nottingham College	Nottingham	No email address*	3
<b>Trust AM</b> Bassetlaw District Hospital	Worksop	TG, SW	1
<b><u>1287 kHz</u></b>			
<b>Basildon Hospital Radio</b>	Basildon	Telephone call to station	1

<b>BFBS Northern Ireland</b> (6 separate Barracks)	Aldergrove, Ballykelly, Ballykinler, Ballymena, Bessbrook Mill, Hollywood	Web listed (Ballykelly MH)	1
<b>BFBS Gurkha Radio IBS</b>	Brecon	Web listed	2
<b>BFBS Gurkha Radio</b> Invicta Park Barracks	Maidstone	Web listed	2
<b>Blue Bull Radio RAF</b>	Marham Norfolk	Web Listed	2
<b>Garrison Radio</b> Basingbourne Barracks	Royston	JW	1
<b>Garrison Radio</b>	York	AB, SW	1
<b>Hospital Radio</b>	Crawley	DA	1
<b>Insanity</b> Holloway College	Egham	Web listed	2
<b>Junction 11</b> Reading University	Reading	JW	1
<b>Neville Hall Sound</b> , Neville Hall Hospital	Abergavenny	RM	1
<b>Pinesbury AM</b> Junior School	Swindon	DG	1
<b>Radio Coombeshead</b> Coombeshead College	Newton Abbey	No email address*	3
<b>Radio Gwendolen</b> General Hospital	Leicester	TG, SW	1
<b>Radio Hotspot</b> Holbrook School	Ipswich	Email to station*	3
<b>Radio Redhill</b> Royal Hospital	Redhill	DA	1
<b>Radio Ysbyty Glan Clwyd</b> Hospital	Rhyl	BDXC –UK	1
<b>Solar AM St Helens</b> College	St Helens	BH PF	1
<b>Surge University</b>	Southampton	TH	1
<b>VRN Victoria Hospital</b>	Kirkaldy	KB	1
<b><u>1350 kHz</u></b>			
<b>Air 3</b> University	Stirling	Believed to be broadcasting – but not confirmed	2
<b>Cambridge University Radio (CUR)</b> Churchill College	Cambridge	JW SW	1
<b>Dorton College Radio</b>	Sevenoaks	RM	1
<b>Frequency 1350</b> University	Preston	BDXC –UK	1
<b>GU2</b> University	Guildford	BDXC-UK	1
<b>Hemel Hempstead Hospital Radio</b>	Hemel Hempstead	JW	1
<b>Hospital Radio Pulse</b> Alexander Hospital	Redditch	TR	1
<b>Hospital Radio Yare</b> Northgate Hospital	Gt Yarmouth	Telephone call to station	1
<b>Kingstown Radio</b> Royal Infirmary	Hull	SW, AB	1
<b>Knutsford AM</b> High School	Knutsford	MA	1
<b>LCR</b> University	Loughborough	DT TG	1
<b>Livewire</b> University	Norwich	Email to station	3
<b>Mid Downs Radio</b> Royal Hospital	Haywards Heath	DA.	1
<b>Radio Cavell</b> The Royal Hospital	Oldham	AG	1
<b>Radio Hope</b> University College	Liverpool	PF	1
<b>Radio Nightingale</b> District Hospital	Rotherham	AB, SW	1
<b>Radio RamAir</b>	Bradford	SW	1
<b>Radio Stortford</b> Hospital	Bishops Stortford	Not thought to be	3



		broadcasting	
<b>Radio West Suffolk Hospital</b>	Bury St Edmunds	SW	1
<b>Range Radio Whalley Range School</b>	Manchester	BH	1
<b>University Radio Nottingham</b>	Nottingham	TG	1
<b>URY University</b>	York	AB, SW	1
<b>WCR AM Wulfun College</b>	Wolverhampton	Email to station*	3
<b><u>1386</u></b>			
<b>Anker Radio George Eliot Hospital</b>	Nuneaton	AB	1
<b>Blast 1386 Reading College</b>	Reading	JW	1
<b>Carillon Radio Hospital</b>	Loughborough	AB,MH, DT	1
<b>Carillon Radio Hospital</b>	Coalville	AB,DT	1
<b>Halesowen College Radio</b>	SW. Birmingham	Email address*	3
<b>VI Radio School</b>	Exeter	Email address*	3
<b>Viva AM Penkith High School</b>	Warrington	No email address*	3
<b><u>1404 kHz</u></b>			
<b>University Radio Essex</b>	Colchester	SW	1
<b><u>1431 kHz</u></b>			
<b>Apple AM Musgrove Park Hospital</b>	Taunton	phone call to station	1
<b>Chichester Hospital Radio</b>	Chichester	TH	1
<b>URF University Falmer</b>	Brighton	RM	1
<b>Xtreme University</b>	Swansea	SD	1
<b><u>1449 kHz</u></b>			
<b>Radio Lyneham RAF</b>	Chippenham	RU	1
<b>Taunton School</b>	Taunton	Recently commenced broadcasting	1
<b>The Hub University</b>	Bristol	Email address*	3
<b><u>1575 kHz</u></b>			
<b>Jam AM University</b>	Kingston Upon Hull	SW	1
<b>Radio Tyneside General Hospital</b>	Newcastle Upon Tyne	phone call to station	1
<b>Stoke Mandeville Hospital Radio</b>	Aylesbury	JW	1

Many thanks to the following members:

AB (Andrew Brade);	AG (Alan Gale);	BH (Barry Henshall)
CA (Chris Ashby);	DA (David Ansell);	DG (Dennis Goacher);
DT (David Towers);	JW (Myself);	KB (Ken Baird);
MA (M Astley);	MH (Martin Hall);	PF (Phil Forshaw);
RM (Rash Mustapha);	RU (Robert Underwood);	SW (Steve Whitt);
TG (Tracey Gardner);	TH (Tony Hudson);	TR (Tony Rogers)

and BDXC-UK Members

# DX LOGGINGS

✉ Glackin, 199 Clashmore, Lochinver, Lairg, Sutherland IV27 4JQ, Scotland  
with Martin Hall e-mail: dxlogs@mwcircle.org ☎ 01571-855360

kHz	Callsign	Station, location; details heard etc	SIO	UTC	Date	Who
153		RTA1 Béchar, Algeria; music, female announcer	434	1934	26/11	RD
171		Nador, Morocco; Arabic music, M&F announcers	444	2240	3/12	RD
555	ZIZ	Basseterre, St Kitts; BBC W/S sports // 648 kHz	W/F	0725	2/12	BD
580	<b>CKUA</b>	<b>Edmonton AB</b> ; Christmas songs, long statement about new CKUA programming, mentioning "CKUA" lots of times, and including "Go to ckua.com and look at our new programme schedule"	Gpks	0857	28/12	mah
580	CFRA	Ottawa ON; talks about OJ Simpson, Ads, ID at 0654	333	0640	19/11	GSc-K
580	CFRA	Ottawa ON; "We're breaking news 24 hours a day, News Radio F/G 5-80 CFRA"		0933	6/12	mah
580	WKAQ	San Juan PR; "Escucha WKAQ 5-80"; SS tlks	F	0829	22/12	mah
590	KHAR	Anchorage AK (presumed); EZL/NOS mx; in and out of the noise for over an hour, but always missed the IDs	Fpks	0906	29/12	mah
590	VOCM	St John's NL; talks & ID	222	0648	18/11	GSc-K
590	VOCM	St John's NL; country mx // 560, 620, 710 kHz; "VOCM, depend on it"	F	0756	25/11	PC
590	VOCM	St John's NL; "More music coming up on VOCM" then ads	F	2302	13/12	JW
590	VOCM	St John's NL (pres); country	W	0830	14/12	Rha
590	LS4	R Continental, Buenos Aires; SS phone-talk; "Continental" ID	W/F	0754	15/12	mah
600	CBNA	St Anthony NL; CBC News // 1070 kHz	W/F	2302	24/11	PC
600	CBNA	St Anthony NL; CBC Overnight // 640 kHz	W	0742	28/11	BD
600	CJWW	Saskatoon SK; promo "In Touch radio programming every weeknight at 9.30 right here on CJWW"; also W/F 0913 29/12	F/G	0903	28/12	mah
600	CMKV	Radio Rebelde, Urbano Noris; listener interviews, disco romantico // 5025 kHz	W/F	0732	28/11	BD
610	CKYL	Peace River AB; "YL Country" ID, country mx	Fpk	0942	4/12	mah
610	CKYL	Peace River AB; country mx, "The north Peace country information and country music station, YL Country"	G	0840	30/12	mah
610	<b>CHTM</b>	<b>Thompson MB</b> ; songs, ID "... Breakaway on Thompson's hit music station 6-10 CHTM ..."	Fpk	0852	28/12	mah
610	HJKL	R 610 Bolero, SF de Bogotá; LA mx, SS "6-10 Bolero AM" IDs	F/G	0654	27/12	mah
610	CX4	R Rural, Montevideo (presumed); SS Uruguay ads, websites, tlk; gone by 0800	Fpk	0746	18/12	mah
610	YVXY	R Centro, Cantaura; SS ID "4.13 en Radio Centro primer lugar del sintonía 4.13 minutos ..."; also F 0814 7/12	Wpk	0813	18/12	mah
620	CKCM	Grand Falls NL; // 590 kHz "So this is Christmas"	W	0755	6/12	PC
620	CKRM	Regina SK; anns, jingle ID "... 6-20 CKRM", country mx	P/Fpks	1030	30/12	mah
630		RTT Tunis-Djedaida, Tunisia; Arabic, News	232	2300	28/12	FW
640	CBN	St John's NL; CBC News	F	0000	27/11	PC
640	CBN	St John's NL; classical music // 1140, 750 kHz	P	0012	27/11	SW
640	CBN	St John's NL; CBC Overnight // 600 kHz	W	0745	28/11	BD
640		Radio Guadeloupe, Point-à-Pitre; FF talk // 162 kHz	W	0735	2/12	BD

kHz	Callsign	Station, location; details heard etc	SIO	UTC	Date	Who
650	CKGA	Gander NL; close of CKGA's own programme transmission and switch to VOXM. Gave the VOXM address "P O Box is 8-590 St John's A1B 3P5" and ID as "Radio Station CKGA ... You're tuned to ... Newstalk Radio". WRTH states this change occurs at 2130 local = 0100 UTC. Thanks to mah for help.	F	0100	25/11	AB
650	<b>CKOM</b>	<b>Saskatoon SK</b> ; talk px, anns "news talk on demand – just one of the many reasons to explore newstalk650.com", ads, mx, "It's the heartbeat of Saskatchewan News Talk 6-50. 6-50 News, now"; BN at 1000	W/F	0955	28/12	mah
650		KNR, Qeqertarsuaq, Greenland; talk and music	1-3	1950	19/11	SHN
650	HJKH	RCN Antena Dos, SF de Bogotá; SS anns, "En Antena Dos ..."	G	0743	5/12	mah
660	WFAN	New York NY; "Sports Radio 66 WFAN"	W/F	2220	24/11	PC
660	WFAN	New York NY; live Sports commentary	W	2336	24/11	JW
660	CFFR	Calgary AB; Calgary wx, "6-60 News time 1.42", rolling nx; still F at 1015; also W/Fpks 0855 5/12, P/Fpks 1006 30/12	Fpks	0842	28/12	mah
670	CMBA	R Rebelde, Arroyo Arenas; SS ballads // 5025 kHz	W/F	0755	4/12	PC
680	KBRW	Barrow AK; rock mx from 0751, ID at 0802 "We are KBRW 6-F 80 ... FM 88.1 Deadhorse ..." etc; also noted F/G 28-39 Dec	F	0802	31/12	mah
680	WRKO	Boston MA; "This is Boston's talk station, AM 6-80 WRKO" ID after ads	W	0706	25/11	JF
680	CJOB	Winnipeg MB; sports news, "I'm Robert Holland, CJOB Sports", ads, C2C; xd	W/Fpks	0932	28/12	mah
680	CFTR	Toronto ON; "6-80 News time ...", poor in splatter	P	0750	6/12	mah
680	UNID	possibly KBRW, fighting the splatter with news	P/Fpks	0901	2/12	mah
690	UNID	LA songs, SS jingle ID, sounding very much like "Radio ??? Tu AM Center"; but as far as I'm aware R Barquisimeto doesn't carry this network	W/Fpks	0827	16/12	mah
700	KBYR	Anchorage AK; Fox News Radio; at 0805 job ad mentioning the station phone number and address "... 278- 5297 ... West 34 <sup>th</sup> Avenue ..."; difficult in splatter, usual het nulled	P/Fpks	0802	31/12	mah
700	ZYK686	Radio Eldorado, São Paulo; talks	F	0401	4/12	BOC
700	HCRS2	Radio Sucre, Guayaquil; fast SS pops & OM with "Radio Sucre" ID	W/F	0742	2/12	BD
700	YVMH	R Popular, Maracaibo; poor ID in SS anns at 0903 "La branca ... en Popular 700"	Fpks	0903	7/12	mah
700	UNID	SS songs, TC "3 con 27 minutos", "Radio Super" IDs – perhaps I'm mis-hearing "Radio Sucre" due to interference?	W/F	0827	18/12	mah
710	KIRO	Seattle WA; "Now, the news coverage continues (on Seattle's?) F/G number 1 for news, talk and traffic, News Talk 7-10 Kiro"; also tentative ID Fpks 0930 5/12	F/G	0804	29/12	mah
710	CKVO	Clarenville NL; pop mx, VOXM ID	232	0725	19/11	GSc-K
710	CKVO	Clarenville NL; VOXM 20:20 weather	F	0710	23/11	SW
710	CKVO	Clarenville NL; music and announcement "VOXM, Newfoundland's Information Station. Depend on it." // 620	W	0722	25/11	AB
710	CKVO	Clarenville NL; Country mx // 590 kHz	W/F	0758	25/11	PC
710	CM--	R Rebelde, 4 sites listed; curiously Harry Belafonte's 'Mary's Boy-child' and other music // 5025 kHz	F	0742	2/12	AB
710	<b>ZYI534</b>	<b>R Rural, Santarém</b> ; fanfare, PP ID "Rádio Rural, ... noticias, comunicação total, ... Programa Alvorada Rural"; Brazilian songs; <b>UK FIRST</b>	W/F	0809	19/12	mah

kHz	Callsign	Station, location; details heard etc	SIO	UTC	Date	Who
730	CHMJ	Vancouver BC; highway wx, tfc, "If you see any traffic problems out on the roads this evening, give us a call here at the AM 7-30 traffic centre at TOWN 730"; wx, "Right now outside the AM 7-30 traffic centre in downtown Vancouver it's 3 degrees"; contribution from CKNW reporter; <b>personal first</b> – heard before, but never positively identified	Gpks	0841	30/12	mah
730	CKDM	Dauphin MB; country mx, "7-30 CKDM", anns, wx, ID "Broadcasting from Dauphin Manitoba, the home of the 2007 ... curling championships, this is 7-30 CKDM"	Fpks	0830	28/12	mah
730	CKAC	Montréal QC; FF nx and chansons, ID, ads	333	0505	19/11	GSc-K
730	CKAC	Montréal QC (pres); FF talk	F	0750	29/11	PC
740	ZYH446	R Sociedade da Bahia, Salvador; Rádio Sociedade ID in PP talk	W	2304	24/11	PC
740	CBX	Edmonton AB; change-over from R Sweden to R Australia	W/F	0931	4/12	mah
740	CBX	Edmonton AB; news, "CBC Radio Overnight"	F	1004	30/12	mah
740	ZYH446	R Sociedade da Bahia, Salvador talks PP	F	0358	4/12	BOC
750	CBGY	Bonavista Bay NL; OM/YL talk // 1070 kHz	F	0802	25/11	JW
750	CBGY	Bonavista Bay NL; classical music // 1140, 640 kHz	P	0012	27/11	SW
750	CBGY	Bonavista Bay NL; BBC WS // 1070 kHz	F	0756	5/12	PC
750	ZYH709	R Jovem Pan, Brasília; tuned in to catch PP list of Jovem Pan network stations and "Rádio Jovem Pan" jingle	W/F	0758	15/12	mah
760	WJR	Detroit MI; "Newstalk 7-60 WJR"	W	0800	22/11	PC
760	ZYH788	Rádio Uirapuru, Fortaleza; PP talk, news, "Rádio Uirapuru" ID	F	2355	3/12	PC
760	ZYH588	R Uirapuru, Fortaleza; mx, PP ID "ZYH588 760 kHz Rádio Uirapuru de Fortaleza AM 24 horas ..."	Gpks	2302	21/12	mah
770	CHQR	Calgary AB; sports news, "CHQR Calgary weather"; also P/Fpks 0937 3/12, W/F 1030 28/12, P/F 0910 29/12	F/G	1005	30/12	mah
780	KNOM	Nome AK (pres); religious talk programme – no ID!	W	0850	14/12	Rha
780	KNOM	Nome AK; Alaska wx, anns "... degrees in downtown Nome, it's 12.05", mx	F/Gpks	0904	29/12	mah
780	WBBM	Chicago IL; "WBBM News time 1.47"	F/G	0747	22/11	mah
780	WBBM	Chicago IL; tfc rpt, "Traffic and weather together on the 8's every 10 minutes on News Radio 7-80 WBBM", wx; xf LAs	Fpks	0810	28/12	mah
780	CFDR	Dartmouth NS; "Classic country, 7-80 Kixx"	F	2328	4/12	PC
780	CFDR	Halifax NS; ID, country music	1-2	0655	10/12	SHN
780	YVMN	Radio Coro; MOR Latin rhythms, "Radio Coro" IDs & TCs	W	0738	30/11	BD
780	YVMN	Radio Coro, ID at 0700, nice local uptempo mx	1-3	0652	7/12	SHN
790	WAXY	South Miami FL; "This is The Ticket" IDs. Fox sports network, mixing English Christian station	W	0707	25/11	JF
790	WAXY	South Miami FL; Fox Sports and Westwood One. Ads for businesses in South Florida	F	0305	27/11	PC
790	WAXY	South Miami FL; "Sports Talk 7-90 The Ticket" "All sport All Day" "The Voice of the Miami Dolphins – Miami Dolphin Radio Network"; local ad for Ft Lauderdale restaurant	G	0037	28/11	SW
790	CFCW	Camrose AB; "7-90 CFCW" jingle; also 3-4 Dec, 28-30 Dec	F/G	0740	31/12	mah
790	CMAQ	R Reloj, Pinar Del Río; usual time signal/news routines	W	0130	23/11	JF
790	CMAQ	Radio Reloj, Pinar del Río; 'RR' in CW behind (pres) WAXY	W	0628	25/11	AB
800	VOWR	St John's NL; programme promo & ID	F	0731	25/11	SW
800	VOWR	St John's NL; Irish folk music	F	0825	25/11	PC
800	VOWR	St John's NL; soft pops		0740	14/12	BD

kHz	Callsign	Station, location; details heard etc	SIO	UTC	Date	Who
800	VOWR	St John's NL; folk songs, "... on Newfoundland's Folk Sounds, F/G here on VOWR 800 on the AM dial from Saint John's, Newfoundland"		0805	8/12	mah
800	VOWR	St John's NL; folk music-programme & opera –VOWR ID	F	0900	14/12	Rha
800	CHAB	Moose Jaw SK; oldies, difficult ID in splatter "We have the greatest hits of all time 800 CHAB"; also P/Fpks 1017 30/12	P/F	1004	28/12	mah
800	PJB	TWR Bonaire; PP rlg px, PP ID as "Radio Trans Mundial" and F/Gpks list of affiliates; " <a href="http://www.transmundial.com.br">www.transmundial.com.br</a> ", TC		0758	5/12	mah
800	PJB	TWR Bonaire (tent); EE, religious talk	0-1	0310	9/12	SHN
800	PJB	TWR Bonaire; "This is Transworld Radio, Netherland Antilles"	F	2358	22/12	PC
819		ERTU Batra, Egypt; Arabic music	222	1930	28/12	FW
820	KCBF	Fairbanks AK; ESPN Radio, ads, "820sports.com" and "KCBF F/Gpks – we're in the game"		0936	4/12	mah
820	KCBF	Fairbanks AK; ESPN Radio ID "8-20 Sports is on KCBF ..."; xd KGNW; also P/Fpks 1102 28/12, Gpks 0916 29/12	Fpks	0800	31/12	mah
820	<b>KGNW</b>	<b>Burien-Seattle WA</b> ; Christian promos, mentioning "KGNW" twice; at 0929 "Join us ... at 9 ... AM 8-20 KGNW"; battling with the Eurosplatter, xf KCBF; <b>UK FIRST</b>	P/Fpks	0925	30/12	mah
820	<b>KGNW</b>	<b>Burien-Seattle WA</b> ; ID "... KGNW Burien Seattle Tacoma"; xd KCBF, clearer ID than yesterday	Fpks	0800	31/12	mah
820		TBN, Charlestown, Nevis; TBN ID at end of religious programme	W	2358	21/11	PC
820		TBN, Charlestown, Nevis; all fired up US preacher	W	0749	30/11	BD
820		TBN, Charlestown, Nevis; EE, religious stuff, very good all night long	1-2	0420	8/12	SHN
830	WCRN	Worcester MA; "Red Sox Baseball" x3, "AM 8-30 WCRN"	Fpks	0834	6/12	mah
830	WCCO	Minneapolis MN; "8-3-0 WCCO", anns, phone-talk	F/G	0851	29/12	mah
840	WHAS	Louisville KY; "Turn to News Radio 84 WHAS for skywatch 84 traffic reports"	F/G	0930	6/12	mah
850	WFTL	West Palm Beach FL; anns, ID "News Talk 8-5-0 WFTL"	Fpks	0759	24/11	mah
850	WEEI	Boston MA; Notre Dame at the USC commentary. Promo for "WEEI Sales" and "Sportsradio 8-50 WEEI"	Fpks	0450	26/11	JF
850	WEEI	Boston MA; own promo for the power of advertising on Sports Radio WEEI.	F	0559	26/11	AB
850	WEEI	Boston MA; sports talk	W	0756	29/11	BD
850	UNID	Christian programme with YL mixing WEEI. YL "it's time to rejoice", etc.	W	0223	26/11	JF
860	CJBC	Toronto ON; full ID in FF at toth	F	0600	22/11	PC
860	CJBC	Toronto ON; FF Canadian news and mentioning Radio Canada	F	0602	23/11	AB
870	WWL	New Orleans LA; CBS news then many mentions of WWL	W/F	0005	28/11	PC
870	WWL	New Orleans LA; station contact info: "tune into WWL AM 870, WWL FM 105.3 and wwl.com" Surprised to hear this station coming in so well considering it was a poor night for North America in general.	F	0546	29/11	JF
870	WWL	New Orleans LA; C2C talk show	W/F	0756	29/11	BD
880	WCBS	New York NY (presumed); OM with news reports	W	2338	24/11	JW
880	WCBS	New York NY; "WCBS newstime 6.25"	F	2325	26/11	PC
880	WCBS	New York NY; rolling nx	W	0746	5/12	BD
890	WAMG	Dedham MA; "Hi, I'm [??] from ESPN 8-90". ESPN IDs and sports news	F	2337	25/11	JF



<b>kHz</b>	<b>Callsign</b>	<b>Station, location; details heard etc</b>	<b>SIO</b>	<b>UTC</b>	<b>Date</b>	<b>Who</b>
890	CJDC	Dawson Creek BC; country mx, poor "8-90 CJDC" ID	Gpks	1041	30/12	mah
890	CM--	Radio Progreso, 2 sites listed; "Radio Progreso. Cadena nacional, la onda de la alegría ... desde La Habana, Cuba"	F	0600	23/11	AB
890	CM--	Radio Progreso, 2 sites listed; Cuban mx & "Progreso" ID	W/F	0731	24/11	BD
890	CM--	Radio Progreso, 2 sites (pres); SS music "la 3 y 11 minutos	F	0811	25/11	PC
890	CM--	R Progreso, 2 sites listed; Cuban mx, SS anns, "RP" IDs	P/Fpks	0827	8/12	mah
890	CM--	Radio Progreso, 2 sites listed; SS, IDs, slogans	0-2	0335	9/12	SHN
900	CMKP	Radio Progreso, Cacocum; melancholy songs with TL presenter W // 890 kHz	W	0805	5/12	BD
900	XE--	W Radio, 2 sites listed; SS IDs as "W Radio", anns	G	0934	6/12	mah
910	CKDQ	Drumheller AB (presumed); mx, occasionally breaking through the splatter	P/Fpk	1005	28/12	mah
910	YVRQ	RQ910, Caracas; songs, SS anns, ID "AM Center RQ 910" and list of network stations	W/F	0804	24/11	mah
920	<b>KXLY</b>	Spokane WA; talk px, "This is the community calendar, on News Radio 9-20 KXLY"; also presumed W/Fpks 1130 22/11	Gpks	0831	30/12	mah
920	CFRY	Portage la Prairie MB; "CFRY, real country radio 9-20 AM and 93.1 FM ..."; also W/F 0739 31/12	Gpks	0921	28/12	mah
920	CJCH	Halifax NS; "All oldies all the time" "920 CJCH"	F	2250	4/12	PC
920	CJCH	Halifax NS; ID, pop	1-2	0650	10/12	SHN
920	YVQX	R Nueva Esparta, Porlamar; LA mx, ID/TC "Nueva Esparta 9-20 AM 3, 26 minutos"	W/F	0726	13/12	mah
927		Akko, Israel; Hebrew talk on dead sentence Saddam	F/G	2330	29/12	DV
930	WBEN	Buffalo NY; events in Buffalo and ID as "Newsradio WBEN", weather. Peaking for a few moments. CJYQ completely absent	222	0202	19/11	GSc-K
930	CJCA	Edmonton AB; rlg anns, ads, ID "We are AM 9-30 CJCA. What's going on in and around Edmonton, this is AM 9-30 CJCA community events calendar"	F/G	0918	28/12	mah
930	CFBC	Saint John NB; ads, and ID "93 CFBC"	222	0417	19/11	GSc-K
930	CFBC	Saint John NB; "93 CFBC" heard below CJYQ	W	2240	4/12	PC
930	CJYQ	St John's NL; "9-30 AM Radio Newfoundland"	F	2324	22/11	PC
930	CX20	Radio Montecarlo, Montevideo; songs & talks	P	0349	4/12	BOC
930	CX20	R Monte Carlo, Montevideo; "Información en Monte Carlo" Several mentions of Monte Carlo including sung ID. Full ID at 0315 "Radio Monte Carlo, Montevideo, República oriental del Uruguay...."	W/F	0300	17/12	PC
940	CINW	Montreal QC; "New 9-40 Montreal"	F	2335	22/11	PC
940	CINW	Montreal QC; YL with Canadian leaning news	F	0803	29/11	BD
950	KJR	Seattle WA; local ads "Lincoln Mercury at Bellevue" etc; ESPN Radio; lots of Seattle ads throughout the morning, but never caught an actual ID	Fpks	0737	29/12	mah
950	CKNB	Campbellton NB; "95 CKNB"	F	0150	23/11	PC
950	CM--	Radio Reloj, 2 sites listed; SS rolling nx over ticking clock with minute tones	W	0750	25/11	BD
950	CM--	Radio Reloj, 2 sites listed; weak SS talk and usual RR CW IF	W	0750	1/12	PC
950	CM--	R Reloj, 2 sites listed; usual SS rolling news, IDs, ticks, pips	W/F	0738	27/12	mah
950	LR3	La 950, Buenos Aires; "La 9-50 informa" followed by Argentina news	F	0600	23/11	PC
960	WEAV	Plattsburgh NY; "thezonefm.com" and "96.7 FM"	W	0930	6/12	mah

kHz	Call sign	Station, location; details heard etc	SIO	UTC	Date	Who
960	WHYL	Carlisle PA; loads of IDs; regarding last month's DX Loggings, no doubt from the recording that Ken has posted to his website - <b>UK FIRST</b> - mah	F	0720	26/10	KB
960	CFAC	Calgary AB (presumed); ESPN Radio	F/G	1043	30/12	mah
960	CFFX	Kingston ON; wx, ID "Oldies 9-60", and again at 0904; xf	Fpks	0825	6/12	mah
960	CM--	R Reloj, 2 sites listed; SS rolling news with time pips each minute	W/F	0807	25/11	PC
970	KFBX	Fairbanks AK (tentative); tlk noted in heavy splatter on the 340 degree beverage from 0857 to 0907	Wpks	0857	28/11	mah
970	KFBX	Fairbanks AK; "People listen to News Radio 9-70 KFBX while they're driving by your business every day"; also 27/12, Gpks 1105 28/12, F/G 0930 29/12	F/Gpks	1029	31/12	mah
970	WZAN	Portland ME; ads, news, several good ID's	333	0700	19/11	GSc-K
970	WZAN	Portland ME; difficult audio – heard "9-70 WZAN Exclusive"	W	0705	25/11	AB
970	WZAN	Portland ME; dom on frequency as usual. Fox Sports Reports	Fpks	0530	30/11	JF
970	CM--	<b>R Reloj, unknown site</b> ; time signals, ID, "RR" in morse code on the minute. Mixing WZAN. <b>UK FIRST</b>	W	0602	30/11	JF
970	WSTX	Christiansted, USVI; "You are listening to WSTX, good morning"; also F/Gpks 0804 13/12, Fpks 0833 19/12	Fpk	0858	27/12	mah
970	YVLR	R Continente, Maracay; "Transmite, desde Caracas, ... Radio Continente 590 AM ..." etc	Gpks	0830	19/12	mah
980	CKNW	New Westminster BC; Radio Play at 0819; ID caught a "You're listening to Network Replay on CKNW News Talk 9-80 – we'll have more after this"	F/G	0831	30/12	mah
980	CKRU	Peterborough ON; oldies, "Your hometown radio station, Peterborough's 9-80 Kruz"	W/F	0938	22/11	mah
980	CKRU	Peterborough ON; "9-80 Cruise" ID and oldies	F	2332	25/11	JF
980	CKRU	Peterborough ON; "Your hometown radio station 9-80 Cruise"	F	0141	30/11	PC
980	CKRU	Peterborough ON; "Hometown Radio 9-80 Kruz"	Fpks	0910	6/12	mah
980	ZYH707	R Nacional, Brasilia; songs, PP anns, tlks, "Nacional" IDs	Gpks	2310	21/12	mah
980	HJES	Antena 2, Cali; "Antena Dos" ID pulled out of the splatter (by Henrik Klemetz – thanks!)	W	0100	21/11	JF
980	HJES	RCN Antena Dos, Cali; IDs and chat, jingle ID, etc. Dominant throughout the middle part of the morning, taking over from CKRU's reign from 2300. "RCN, la radio ... de Colombia"	W	0224	28/11	JF
980	HJES	RCN Cali; "RCN" ID in SS talk. "RCN Noticias" at toth	W/F	0557	30/11	PC
980	HJES	RCN, Cali; heard "Antena Dos ...", a time signal, then "RCN Noticias"	F	0600	30/11	AB
980	UNID	Probably Canada since they were playing Neil Young "Heart of Gold"; unusually brief and good peak	Gpk	0805	22/11	SW
981		RTA 1, Algier, Algeria; Arabic music	333	1945	28/12	FW
990	CKGM	Montreal QC; "The Team 9-90" mentioned several times prior to tot; also presumed F 0823 25/11	W/F	2359	27/11	PC
990	CKGM	Montreal QC; Montreal ads, "Call, CKGM, frequency 9-90 AM. The Team 9-90, officially Montreal's sports story, a division of Chum Radio", ESPN Radio; over/xd Euros	F/G	0920	6/12	mah
1000	WMVP	Chicago IL (presumed); ESPN Radio	Gpks	0921	6/12	mah
1000	KOMO	Seattle WA; "Komo 1000 News time 11.50", Komo 4 news reports; peaking G at 0808, gone by 0830; also F/G 0842 5/12	Fpks	0750	2/12	mah

kHz	Callsign	Station, location; details heard etc	SIO	UTC	Date	Who
1000	KOMO	Seattle WA; W/F at 0741; F/G at 0915; ads, "Komo 1000 news time is 2.09"; also mornings 28-30 Dec	F/G	1009	31/12	mah
1010	WINS	New York NY; "New York's Weather Station – 10-10 Wins"	F	2353	21/11	PC
1010	WINS	New York NY; rolling nx	W/F	0725	24/11	BD
1010	CBR	Calgary AB; CBC // 740 kHz; also P/Wpks 1005 3/12	W/P	1004	30/12	mah
1010	CFRB	Toronto ON; ads "Newstalk 10-10 CFRB. From Southern Ontario this is CFRB news in Toronto, Good Evening it's six o'clock"	Exc	2258	25/11	JW
1010	CFRB	Toronto ON; call 416-872-10-10 dominant	G	0715	28/11	SW
1010	CFRB	Toronto ON; "Newstalk 10-10 CFRB good afternoon it's 5.30"	F	2230	28/11	PC
1010	HJCN	R Reloj, SF de Bogotá; SS ID "Siempre tropical, Radio Reloj, 10-10, la emisora de todos los ..."; on brief peak in WINS fade; my UNID last month – thanks to Henrik Klemetz for listening to the clip and coming up with the ID	Wpk	0822	5/11	mah
1017		TRT Istanbul, Turkey; Turkish music px	222	2032	28/12	FW
1020	YVMX	Radio Continente, Maracaibo; Latin music; "La Jefa ... Continente, La ??? ID Mixing with Reloj	W	0658	2/12	AB
1020	CM--	Radio Reloj, no info in WRTH; news items, Radio Reloj ID and RR in CW, mixing with YVMX;	Fpks	0659	2/12	AB
1020	CM--	R Reloj, several sites listed; usual SS rolling news, ticks, pips, ID; also W/F 0835 27/12	W/F	0857	24/12	mah
1030	WBZ	Boston MA; ads, ID "WBZ News"	W/F	0806	14/12	mah
1030	LS10	R del Plata, Buenos Aires; SS tlk, anns, IDs, "Radio Noticias del Plata, siempre ante"	F/G	0731	27/11	mah
1030	LS10	AM del Plata, Buenos Aires; romantic songs	G	0345	4/12	BOC
1040	ZYK537	Rádio Capital, São Paulo; nice songs	G	0353	4/12	BOC
1050	WEPN	New York NY; sports talk and toh ID "10-50 ESPN"	F	2300	23/11	AB
1050	WEPN	New York NY; ESPN Radio "New York Sports Desk"	G	2321	24/11	PC
1060	WBIX	Natick MA; "This is New England's ??? WBIX" among weak newstalk programming	W	0215	22/11	AB
1060	WBIX	Natick MA; It's Your Money programme – as per schedule	F	2335	27/11	PC
1060	WBIX	Natick MA; ID "This is ... .. WBIX" then promo for the Stephanie Abrams Travel show on Sunday	W	0127	29/12	JF
1060	<b>HIAJ</b>	<b>R Amanecer Internacional, San Francisco de Macoris; SS</b> rlgx px, hrd from 0747 to past 0830, but always faded at ID time; poor during three mentions of "La Voz de la Esperanza" at 0829 (confirmed by their schedule at <a href="http://www.radioamanecer.org/web/programacion.php">http://www.radioamanecer.org/web/programacion.php</a> ); thanks to Henrik Klemetz for pointing out which station this was – he writes "You bet 1060 is the Dominican, the format is matching and their slogan 'la voz de la esperanza' is repeated all the time"; he adds "In the 0829 clip, just after 'La Voz de la Esperanza', he mentions 'Apartado 1500' /mil quinientos/, but the ensuing 'Santo Domingo' is blurred"; <b>UK FIRST</b>	Gpks	0829	7/12	mah
1069.95	<b>ZYL316</b>	<b>Rádio do Povo, Muzambinho; Brazilian songs, with PP anns</b> in between, frequently mentioning "Povo" (pronounced as "Povoo", just like 890 R Planalto is pronounced "Planaltoo") and "Rádio Povo"; the only slight doubt in my mind is that there were a couple of references to Mato Grosso, and this station is in Minas Gerais, so maybe a little more research is required; thanks to AB for extensive help on this; <b>UK FIRST?</b>	W/F	0806	15/12	mah
				-	0835	

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1070	KNX	Los Angeles CA; tfc, wx "It is 11.46 on KNX 10-70"	Gpks	0746	29/12	mah
1070	KNX	Los Angeles CA; ads, promo, "KNX 10-70 News Radio"	F/G	0911	31/12	mah
1070	CBA	Moncton NB; CBC News	W/F	2132	21/11	PC
1070	CBA	Moncton NB; CBC Overnight	W/F	0820	25/11	BD
1070	CBA	Moncton NB; classical music // 1140, 640, 750 kHz	Exc	0012	27/11	SW
1070	CBA	Moncton NB; "Stay tuned to CBC Radio", "CBC Radio Overnight" – Radio Australia	Wpks	0905	19/12	mah
1070	CBA	Moncton NB; "CBC News" ID	W	0603	22/12	JW
1070	<b>WMIA</b>	<b>Arecibo PR</b> ; mix of mx, SS anns and ads; ID "WMIA" at 0143; closing anns at 0158 "... Mia Radio Arecibo, gracias por ... muy buenos noches" etc, then local anthem at 0200, followed by SSB – then off; in and out of the mix - new for me	Fpks	0143	22/12	mah
1080	KUDO	Anchorage AK; Air America with Mark Riley Show; ad break from 1028 to 1034, including a political ad regarding the Anchorage Municipality which ended "... for KUDO, I'm ..."; dominant over Euros	F/Gpks	1028	29/12	mah
1080	<b>WTPS</b>	<b>Coral Gables FL</b> ; promo for Dave King programme, followed by a jingle "... County ... Christian Radio" then "Weekdays ten a.m. on Newstalk 10-80 WTPS The People's Station"	F	0804	25/11	AB
1080	WTIC	Hartford CT; C2C talk show	W/F	0745	24/11	BD
1080	WTIC	Hartford CT; PSA about dangers from power lines brought down by storms, brought by "Connecticut Light and Power and WTIC working together" followed by toh ID "Newstalk 10-80 WTIC"	W	0800	25/11	AB
1080	WTIC	Hartford CT; Coast to Coast	G	0837	25/11	PC
1080	WTIC	Hartford CT; "As you heard here on WTIC Newstalk 10-80 Cincinnati defeated the Utah ... " Surprised how easy this was, just sat there with Spain	F	2331	25/11	JF
1090	KPTK	Seattle WA; ads, promo "... on Seattle's Progressive Talk, AM 10-90"; breaking through the splatter	P/Fpks	0732	29/12	mah
1098		Radio Bayrak, Cyprus (tent); Turkish talk and music	121	0200	31/12	FW
1100	WHLI	Hempstead NY (tentative); songs, occasionally peaking above the splatter; possible closing anns at 2129	Wpks	2120	26/11	mah
1100	WTAM	Cleveland OH; Coast to Coast then WTAM promos	W/F	0758	29/11	PC
1100	CMCH	R Cadena Habana, La Habana; SS anns, ID	W/F	1103	27/12	mah
1110	WBT	Charlotte NC; "Newstalk 11-10 WBT"	W/F	0905	25/11	PC
1120	KMOX	St Louis MO; promo with mentions of KMOX.com and KMOX	F	0755	22/11	PC
1120	KMOX	St Louise MO; KMOX News	W	0808	22/11	BD
1130	KFAN	Minneapolis MN; "ESPN Radio", "KFAN" IDs at 0803, xf WBBR	Fpks	0755	28/12	mah
1130	WBBR	New York NY; ads, Bloomberg ID, news	242	0825	18/11	GSc-K
1130	WBBR	New York NY; business nx	F	0750	24/11	BD
1130	WBBR	New York NY; NYC traffic & weather	F	2355	27/11	SW
1130	WBBR	New York NY; "Bloomberg" US business news	W/F	0748	4/12	PC
1130	CKWX	Vancouver BC; "Keep up to date while you keep up with your work, go to news1130.com, Vancouver's news station"; also Wpks 0910 28/11, F/G 0844 5/12, Fpks 0837 28/12, F 0171 29/12, Gpks 0821 30/12 – a good west coast marker	F/Gpks	0745	31/12	mah
1130	ZYJ460	Rádio Nacional, Rio de Janeiro; PP news, weather "Nacional informa"; later, music with lots of Rádio Nacional IDs	W/F	0102	18/12	PC

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1140	KSLD	Soldotna AK; "Here's the KSLD ... weather forecast", wx, another "KSLD", then rock mx; very occasional peaks coming on top of CHRB; also Fpks 0939 27/12	Fpks	0942	29/12	mah
1140	<b>KHTK</b>	<b>Sacramento CA</b> ; first caught anns, "..... on Fox", sports, phone-talk at 0921; occasionally on top of CHRB; at 1000 on top for weak, clear ID "We're Sports 11-40 KHTK" and "The Fox National Sports Report"; <b>personal first</b>	Fpks	1000	29/12	mah
1140	CHRB	High River AB; "Listen weekdays at 3 and 7 PM for Through the Bible, with Dr J Vernon McGee on AM 11-40"; also P/Fpks 0941 3/12, W/F 0950 28/12	F/Gpks	0950	29/12	mah
1140	CBI	Sydney NS; CBC Overnight // 1070 kHz	W/F	0823	25/11	BD
1140	CBI	Sydney NS; CBC // 1400 kHz	F	2144	26/11	PC
1150	CHGM	Gaspé QC; back to back pops; FF anns, ID "Vous écoutez CHNC - CHGM"	Gpks	0949	29/11	mah
1160	KSL	Salt Lake City UT; difficult ID "Utah's news, traffic and weather station"; then px from the "golden age of broadcasting"	Gpks	0906	31/12	mah
1161		VOIRI Abadan, Iran; VV Koran music	333	0200	23/12	FW
1170	WWVA	Wheeling WV; promo for NASCAR, "News Radio 11-70 WWVA"	F/G	0834	25/11	PC
1180	WHAM	Rochester NY; "how it all began on 11-80 WHAM" referring to the station's start in 1934	Gpks	0803	29/11	AB
1180	WHAM	Rochester NY; "It's 5.30 now, time for news on Wham", "News Radio 11-80 WHAM"	Fpks	1030	6/12	mah
1180	WHAM	Rochester NY (pres); Coast to Coast	W	0748	10/12	PC
1180	WHAM	Rochester NY; C2C talk show	W	0755	18/12	BD
1180	CMBA	Radio Rebelde, Villa María; "Desde La Habana, la emisora de la Revolución". Echo present as previously reported by SW. Also // 5025kHz	G	0700	23/11	AB
1180	CM--	Radio Rebelde, 2 sites listed; Cuban mx // 5025 kHz	W/F	0753	24/11	BD
1180	CMBA	Radio Rebelde, Villa María; SS public address // 5025 kHz. Clear echo (suggesting more than one transmitter?)	F	0000	29/11	PC
1190	WOWO	Fort Wayne IN; Fox News Radio, wx, "News Talk 11-90 Wowo", xf WLIB	Fpks	2206	25/11	mah
1190	KEX	Portland OR; two "News Radio 11-90 KEX" IDs heard, difficult in splatter	P/Fpks	0833	30/12	mah
1190	LR9	Radio América, Buenos Aires; "Radio América" ID, SS talk	F	0203	24/11	PC
1190	LR9	R América, Buenos Aires; SS anns, "América Sinfo"	Fpks	0649	1/12	mah
1200	WCHB	Taylor MI; gospel music mixing with CFGO; announcement at 0711 "More of .. things to talk about, Newstalk 1200, Newstalk 1200 WCHB"	Gpks	0711	22/11	AB
1200	WCHB	Taylor MI; light rlg songs, "News Talk 1200 WCHB"; dom	Gpks	0812	22/11	mah
1200	CJRJ	Vancouver BC (presumed); Asian mx; not heard again this morning, despite numerous checks!	Wpk	0822	30/12	mah
1200	CFGO	Ottawa ON; "This is the National Sports report on Talk Sports Radio"; very weak in Eurosplatter	121	0823	19/11	GSc-K
1200	CFGO	Ottawa ON; Fox sports news and "...Ottawa Senators, 1200 The Team" ID	Fpks	0658	22/11	AB
1200	CFGO	Ottawa ON; Ottawa hockey and Ottawa ads	F	2318	26/11	PC
1200	CFGO	Ottawa ON; "Welcome back ... here on The Team" Chat about Ottawa sports. Loop/eve phasing opens this channel up nicely!	F/G	2324	06/12	JF

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1200	ZYK520	Rádio Cultura, São Paulo; songs and talks in PP	P	0006	3/12	BOC
1220	ZYJ458	Rádio Globo, Rio de Janeiro; reports PP	F	0010	3/12	BOC
1230	CFFB	Iqaluit NU (presumed); "You're listening to CBC Radio Overnight", anns, "CBC Radio 1", "Here is the CBC Hourly News"	W	0900	19/12	mah
1229.97	HJKL	Radio Calidad, Cali (tent); Spanish	1-3	0735	7/12	SHN
1242		Voice of Vietnam, Thoi Long; YL Vietnamese talks with one every few sentences Vietnam mentioned; also on 18/11 but France Info much too strong	333	1540	17/11	GSc-K
1250	WGHB	Farmville NC; at 0721 "Pirate Radio 12-50 ... your talk station"; at 0758 promos, "News Radio 12-50 and 9-30"; in and out of the mix, briefly on top	Wpks	0758	28/11	mah
1250	WEAE	Pittsburgh PA; promos, "Join us on Pittsburgh's ESPN Radio 12-50"; also Wpks 0803 28/11	W/F	0858	29/11	mah
1250	CJYE	Oakville ON (presumed); rlg songs, long adbreak from 1019 to 1025 and straight back into rlg songs	F/Gpks	1012	6/12	mah
1250	HJCA	Capital R; SF de Bogotá; SS ID "Esta es Capital Radio, 1,250 AM HJCA, Capital Radio en servicio de ..."; also Wpks 0724 28/11, W/F 0033 26/12	W/F	0844	27/11	mah
1260	WKMI	Boston MA; Radio Disney	F/G	0755	28/11	PC
1269		CRI, Yunnan, China; Nepali service, DLF off	1-3	1525	28/10	SHN
1270	WXYT	Detroit MI; sports take audible for some time in otherwise poor conditions then "12-70 XYT" and "WXYT" heard at toth	W	0800	10/12	PC
1270	CJCB	Sydney NS; local ads, ID as "Cape Breton Radio", wx	W/F	0813	14/12	mah
1269.97	LS11	R Provincia de Buenos Aires, La Plata; SS "Provincia Noticias", ID "AM 12-70 la radio pública de la provincia de Buenos Aires"; also F 0734 7/12	F/G	0801	27/11	mah
1280	CJSL	Estevan SK; country mx, poor "CJ 12-80" ID	Fpks	0929	5/12	mah
1280	WCMN	Arecibo PR; "NotiUno" heard in very noisy channel	W	0747	5/12	PC
1280	WCMN	Noti Uno, Arecibo PR; ID, ann's	1-2	0600	8/12	SHN
1280	WCMN	Arecibo PR; "Noti Uno" IDs and announcements	W	0531	27/12	JF
1280	WCMN	Arecibo PR; SS anns, IDs "NotiUno 6-30"; also Fpks 2214 1/12	W/F	0815	27/12	mah
1280	ZYJ455	R Tupi, Rio de Janeiro; PP anns, TC, "Radio Tupi" jingle and "Tupi Noticias"; also Gpks 2239 16/12	F	0625	1/12	mah
1287		Galei Zahal, Israel; Israel pop mx	Fpks	2320	29/12	DV
1290	WNBF	Binghamton NY; TC "WNBF first news time 5.33"	Fpks	1033	6/12	mah
1290	CFRW	Winnipeg MB; oldies, ID "CFRW - the greatest oldies of all time", jingle ID "Music Radio CFRW"; xd SS talker; also Fpk 1039 22/11, F/Gpks 0916 5/12, W/F 0927 28/12	Gpks	0852	31/12	mah
1290	YVLF	Radio Puerto Cabello; bright Latin mx, OM with "Radio Puerto Cabello" ID & TC	W/F	0603	26/11	BD
1290	YVLF	R Puerto Cabello; SS; tlk abt Chavez	W	0337	4/12	Rha
1290	YVLF	R Puerto Cabello (presumed); nice songs SS, no ID	F	0412	4/12	BOC
1290	YVLF	R Puerto Cabello; "Viva Venezuela por Radio Puerto Cabello en primer lugar", LA mx; also F/G 2237 1/12	F	0823	22/12	mah
1300	WOOD	Grand Rapids MI; "Join me on Newsradio 13-hundred Wood"	F	0806	22/11	PC
1300	WOOD	Grand Rapids MI; "News Radio 1300 WOOD"	W	0900	22/11	mah
1300	WERE	Cleveland OH (pres); USA Radio Network News mixing with WOOD	F	0802	22/11	PC



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1300	<b>KKOL</b>	<b>Seattle WA</b> ; promo “News Talk 1300 KOL” x3; personal first; also W/Fpks 0821 31/12	W/F	1120	30/12	mah
1310	<b>CHLW</b>	St Paul-Bonnyville AB; country mx, “We’re 13-10 CHLW Saint Paul Bonnyville, a Newcap radio station. The Lakeland’s country music leader 13-10 CHLW”; also F/G 1132 22/11, P/Fpks 0944 3/12, W/Gpks 0934 4/12; F/G 0908 31/12 <b>UK FIRST?</b>	F/G	1013	28/12	mah
1310	<b>CIWW</b>	Ottawa ON; “Oldies 13-10”	W/P	0830	6/12	mah
1310	<b>YV--</b>	Radio Nacional de Venezuela, 2 possible sites; "RNV" ID, musicas nacionales & OM/YL chat	F	0800	2/12	BD
1310	<b>YV--</b>	R Nacional, 3 sites listed; “Radio Nacional de Venezuela”, “RNV Noticias”	W/F	0204	09/12	PC
1310	<b>YV--</b>	R Nacional, 2 sites listed; SS “RNV” ID	W/F	0824	13/12	mah
1320	<b>WDER</b>	Derry NH (tentative); possible ID at toh heard in the splatter; Certainly sounds like WD?R but very difficult copy	W	0200	23/11	JF
1320	<b>WDER</b>	Derry NH (tentative); rlgms mx in CKEC fade, hrd for a few minutes; still haven’t got an ID on this one	Fpk	2111	27/11	mah
1320	<b>CKEC</b>	New Glasgow NS; list of people making pledges to Pictou County Christmas Telethon; most with New Glasgow addresses	F	2131	26/11	PC
1320.01	<b>CKEC</b>	New Glasgow NS; Scottish style folk mx	W/F	0011	27/11	BD
1320	<b>CKEC</b>	New Glasgow NS; legal ID at top of hour is often clear due to silence in splatter from adjacent channels	P	0200	28/11	SW
1320	<b>CKEC</b>	New Glasgow NS; jingle “13-20 CKEC New Glasgow”	F	0457	28/11	AB
1320.01	<b>CKEC</b>	New Glasgow NS; pop, IDs, weather: snow and rain	1-2	0218	10/12	SHN
1320	<b>CKEC</b>	New Glasgow NS; “This is CKEC Radio New Glasgow” ID after Broadcast News	W	0004	29/12	JF
1320	<b>CJMR</b>	Mississauga ON; more Hindi language advertisements for businesses with area codes (416) (Toronto)	W	0346	22/11	AB
1320	<b>CJMR</b>	Mississauga ON; usual Asian programming. Toronto area Phone numbers read out at top of hour.	W	0200	23/11	JF
1320	<b>YVWP</b>	R Apolo, Turmero; SS jingle ID, TC, ID “13-20 AM Radio Apolo”	W/Fpks	0829	13/12	mah
1320	<b>YVWP</b>	Radio Apolo, Turmero; “Radio Apolo” heard during very subdued NA conditions – CKEC was very weak.	W	2303	13/12	PC
1320	<b>YVWP</b>	R Apolo, Turmero; OM with talk only, fading and noise, but heard “.. Venezuela... escuchas Apolo” and other earlier mentions of “Apolo”	Fpks	0241	14/12	AB
1320	<b>YVWP</b>	R Apolo, Turmero; lots of chat, Clear ID, announcements and eventually lively Latin rhythms	W	0225	16/12	JF
1320	<b>YVWP</b>	Radio Apolo, Turmero; "futbol en Apolo" & commentary	W/F	0023	29/12	BD
1330	<b>WRCA</b>	Waltham MA; “13-30 WRCA”	W	0701	29/11	PC
1330	<b>WRCA</b>	Waltham MA; legal ID (13-30 WRCA) and toh disclaimer about programmes representing the views of the producers and not necessarily those of WRCA	vW	0500	6/12	AB
1330	<b>CJYM</b>	Rosetown SK; country mx, “Some might call it old, we call it classic/classic - Classic hits, 13-30 12-10”; also F/G 1128 22/11, P/Fpks 1000 3/12	F/G	0851	30/12	mah

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1340	CFYK	Yellowknife NT; very weak audio noted from 0925 to past 1020 in noise/splatter; the only announcement that was readable was at 1017 "You're listening to CBC Radio Overnight", which is rather an odd time!	vWpks	1017	4/12	mah
1350	WOYK	York PA; tlk briefly & "ESPN AM 13-50 WOYK" ID; mention of York; xf UK station	W/F	0908	14/12	Rha
1350	CKAD	Middleton NS; Middleton ads	Wpks	1043	6/12	mah
1350	LS6	R Buenos Aires; rlg px in PP-accented SS, SS ID "Radio Buenos Aires"; at 0151 "AM 1,350 Buenos Aires"; xf UNID Brazilian	F/G	0101	17/12	mah
1350	ZYH520	R Cristal, Salvador; PP anns giving list of stations "ZYK699 ondas médias 1230 kHz Radiodifusora Boa Vontade São Paulo capital; ZYK696 ondas médias Super Rádio do ... 550 kHz Sertãozinho São Paulo; ZYH321 ondas médias Super Rádio Boa Vontade 610 kHz Irandube Amazonas", then another ref to Rádio Boa Vontade; same ID at 0112 17/12; thanks to AB for assistance in picking out the detail; although no actual ID, R Cristal is the Boa Vontade station on 1350 kHz	W/F	2307	16/12	mah
1360	KKMO	Tacoma WA (presumed); SS songs, anns, "13-60, La Vera ..."; there from 0930, peaking G, but fading by 1018	Gpks	1018	31/12	mah
1370	WDEA	Ellsworth ME; "Serving Hancock County and beyond, this is AM 13-70 WDEA"	F	0705	22/11	AB
1370	CFOK	Westlock AB; I think the music they played was oldies, rather than country, but not entirely clear; anns "you got it, all right ... heh, so make up your mind already – the Fox"	P/Fpks	1051	28/12	mah
1370	UNID	Talk station noted in WDEA fades; wx at 1009, "53 in Washington and partly cloudy"	Wpks	1006	29/11	mah
1377		CNR 1, Henan, China; CC tlk & CNR ID	W	1500	24/11	Rha
1377		TWR Gavar, Armenia (presumed); Kurdish over France, ID & address	G	1926	2/12	BOC
1380	WWMI	Saint Petersburg FL; pops, ID "Your music, your way, Radio Disney"	Wpk	0824	28/11	mah
1380	WMYF	Portsmouth NH; NOS, "Music of Your Life, home from home, WMYF"	Wpks	2306	27/11	mah
1380	WKJV	Asheville NC (tentative); rlg preacher came up out of the noise at 2228 for a brief peak; at 2229, "This has been the Gospel Time Radio Broadcast with pastor Willard ... You may send all correspondence care of the Chapel Hill Missionary Baptist Church. The address is 9 Chapel Hill Road, Asheville, North Carolina ... 828-684-0159"; not as per schedule on WKJV website, but seems too much of a coincidence to think this wasn't the one; xf CKLC and WMYF	Wpk	2228	25/11	mah
1380	KRKO	Everett WA; local ads, ID as "The ... of the college football season is about to unfold on Northsound 13-80, home of ..."	F/G	0957	31/12	mah
1380	CKPC	Brampton ON; "You're listening to 13-80 CKPC", briefly on top for the ID; xd presumed CKLC and a Latin	Wpks	2230	28/11	mah
1380	YVNG	Ondas del Mar, Puerto Cabello; melancholy discos romanticos	W	0755	1/12	BD
1390	WPLM	Plymouth MA; ID noted "Easy 99.1"; in and out of the noise and mix of other stations	Wpks	0853	30/11	mah
1390	YVZA	R Fé y Alegría, Caracas; "En Fé y Alegría 4 y 2 minutos"	F	0802	6/12	PC
1390	YVZA	R Fé y Alegría, Caracas; LA mx, very poor SS ID	P/Fpks	0814	8/12	mah

<b>kHz</b>	<b>Callsign</b>	<b>Station, location; details heard etc</b>	<b>SIO</b>	<b>UTC</b>	<b>Date</b>	<b>Who</b>
1400	CBG	Gander NL; "Fisheries Broadcast" discussing sinking of NL fishing boat	F	2115	21/11	PC
1400		Harbour Light of the Windwards, Carriacou (pres); religious programming	W/F	0015	14/12	PC
1410	WPOP	Hartford CT; ESPN Radio	F	0804	25/11	PC
1410	CFUN	Vancouver BC; C2C; at 0933 "C-fun 14-10 AM, the home of ...", and "You're listening to Coast to Coast AM on C-fun 14-10 AM. Now, back to the show"; also Gpks 0829 29/12	Fpks	0919	22/11	mah
1420	YVNZ	Radio Marabina, Maracaibo; MOR Latin rhythms with "Marabina" IDs	W	0820	2/12	BD
1420	UNID	"This is CNN Radio"	W	0802	25/11	PC
1430	WENE	Endicott NY; "Fox Sports on 14-30 The Team"	W	0806	27/11	BD
1430	WENE	Endicott NY; "Sport Radio 14-30 The Team"; Fox National Sports Report	Fpks	0822	28/11	mah
1430	WENE	Endicott NY (pres); Fox Sports Radio	W	0744	10/12	PC
1430	KLO	Ogden UT; ads, Midnight Truckin', "This is K-L-O", local ads	Gpks	0928	28/12	mah
1430	CHKT	Toronto ON; legal ID in English and disclaimer on the programme content "Fairchild Radio"	W	0400	22/11	SW
1430	YVTP	R Bahía, Puerto La Cruz; bright Latin rhythms & "Bahía" ID	W/F	0808	2/12	BD
1430	YVTP	Radio Bahía, Puerto La Cruz; SS rhythms "En Bahía son las 4 y 11 minutos"	F	0811	02/12	PC
1430	YVTP	R Bahía, Puerto La Cruz; possibly a trailer for a programme: "una de la mañana... Bahía" is all I could make out	W	0728	21/12	AB
1431		Radio Sawa, Djibouti; talks and songs, in AA over RAI	G	2232	2/12	BOC
1440	UNID	US talk (C2C?) above DRM	W	0752	23/11	PC
1450	WENJ	Atlantic City NJ; first time I've heard a proper legal ID. "ESPN W Radio for South Jersey. WENJ 14-50 Atlantic City; on the web at 1450ESPN.com"	W	0700	27/11	AB
1450	WENJ	Atlantic City NJ; (pres); ESPN Radio	W	0900	26/12	PC
1450		Radio El Sol Quilmes, Argentina; SS pops & YL with "Radio El Sol" ID	W/F	0658	3/12	BD
1460	HJJW	Emisora Nuevo Continente, Bogotá; thanks to Henrik Klemetz for identifying this from a confusing selection of clips. He heard "Nuevo Continente, 38 años de radio diferente. 350?? pesos. Haga su aporte...". Several 'Nuevo Continente' IDs and a time check followed as far as 0512.	Fpks	0500	18/12	AB
1467		IRIB, Isfahan, Iran; talk about Iraq in Farsi	232	1635	18/11	GSc-K
1467		IRIB Isfahan, Iran (pres); huge signal // 1503 kHz	Exc	1939	27/11	SW
1470	WWNN	Pompano Beach FL; Jewish Radio Network providing a short list of three or four stations on which its programme was being transmitted. This list included WWNN 14-70 in South Florida.	Exc	0355	26/12	AB
1470	WLAM	Lewiston ME; legal ID and ESPN promos; most nights	F	0300	24/11	SW
1470	WLAM	Lewiston ME; ESPN programming. First ID heard for a long time – "14-70, ESPN, L/A's sports station"	F	0731	25/11	AB
1470	WLAM	Lewiston, ME; ESPN and ID at toth	F	0400	28/11	PC
1470	WLAM	Lewiston ME; ESPN sports radio	W	0655	6/12	BD
1470	WLAM	Lewiston ME; ESPN ID	1-3	0540	10/12	SHN
1470	WLAM	Lewiston ME; sports talk then ID "ESPN Radio"	W	0740	10/12	JW
1470	WLAM	Lewiston ME; ESPN Radio	243	0617	24/12	MvA

kHz	Callsign	Station, location; details heard etc	SIO	UTC	Date	Who
1470	CJVB	Vancouver BC; CC anns first noted at 0752; peaking F around 0844; caught an EE ID at 0900 "AM 14-70 CJVB, Fairchild Radio, Cable 103.3 FM"; also Gpks 0900 29/12	W/Fpks	0900	2/12	mah
1470	XEAI	Radio Fórmula, México DF; announcement among local music: F "Fórmula de la Noche, catorce-setenta"	F	0638	25/11	AB
1470	XEAI	Metropoli Mexico City; "Metropoli" "XEAI" "Radio Formula" IDs, chat & himno nacional	W	0555	14/12	BD
1470	XEAI	Radio Fórmula, Mexico City; S "Fórmula de la Noche"px	333	0616	30/12	MvA
1470	ZYJ616	R Rural de Parelhas, Parelhas; full ID "14-70 kHz Rádio Rural AM de Parelhas"	W/F	0003	15/12	PC
1470	<b>HJIM</b>	<b>Radio Popular, Medellín</b> ; popped up in a recording on this frequency. An OM says "con la promoción Andrea Valero", there is then a Popular jingle, then a YL speaks whose diction is less good, but who gives at least one and possibly three mentions of Popular. Thanks to Henrik Klemetz (again) who transcribed the opening words; <b>last heard in UK in 1988</b>	W	0728	21/12	AB
1470	OAU4B	CPN Lima; SS religious programme & cultura discurso CPN ID	W/Fpks	0603	24/11	Rha
1470	OAU4B	CPN Radio, Lima; "en todos, el CPN, el ??.." heard in a crackly reception period	W	0712	17/12	AB
1470	CX147	Radio Cristal del Uruguay, Las Piedras; music programme with very few announcements. A brief "Radio Cristal del Uruguay" was heard at 0625	G pks	0625	22/12	AB
1470	YVSY	R Vibración, Carúpano; SS; latino music & anns	W	0434	11/12	Rha
1476		IRIB1, Isfahan, Iran; IS, Farsi, nx	333	1630	6/12	MvA
1480	WMDD	Fajardo PR; "Tropical 14-80" ID	W/F	0752	27/11	PC
1480	WSAR	Fall River MA; "Don't miss your chance to win in WSAR's 85 <sup>th</sup> birthday blast"	F	0758	27/11	PC
1480	WHBC	Canton OH; ID "WHBC", Christmas songs	W/F	0732	6/12	mah
1490	WBAE	Portland ME; nostalgia & WBAE 14-90, Portland ID	W	0600	24/11	Rha
1490	WTKU	Pleasantville NJ; "Thanksgiving is all about love on Cool 98-3"	W/F	2230	24/11	PC
1494		Xinjiang RGD, China; Chinese tlk& ID "Xinjiang Renmin Guangbo Dientai"	W/Fpks	1418	13/12	Rha
1500	WTWP	Washington DC; "Thank you for listening to Washington Post Radio"	F	0005	22/11	PC
1500	WTWP	Washington DC; round table discussion	W/F	0816	24/11	BD
1500	WTWP	Washington DC; "I'm Charles ...? Washington Post Radio 1500 AM, 107.7FM with continuing "Book World"	G	0734	10/12	JW
1500	WTWP	Washington DC; Washington Post daily talking round	W/F	0442	11/12	Rha
1500	WTWP	Washington DC; "You're listening to Washington Post radio"	W	0554	18/12	AB
1500	WTWP	Washington DC; news	232	0717	23/12	MvA
1500	WTWP	Washington DC; "Washington Post Radio" ID	F	0122	29/12	JF
1500	XEDF	Radio Fórmula, México City, DF; mostly talk, xf WTWP, time pip then "Radio Fórmula, en todo la ... Mexicana"	F	0556	22/11	AB
1500	XEDF	Radio Formula, Mexico City; serious piano mx, OM with "Formula" IDs & conversation	W/F	0757	3/12	BD
1500	XEDF	Radio Fórmula, México DF; repeat of 'Bio Natura' with 'Dr Abel Cruz' – as per schedule	F	0800	14/12	PC

kHz	Callsign	Station, location; details heard etc	SIO	UTC	Date	Who
1500	XEDF	R Fórmula, México DF; no ID, but frequent references to “la Colonia Roma”, “El Doctor Abel Cruz” and “Revista especial de Bio Natura”	G	0825	31/12	mah
1500	HJUW	<b>Radio María, Manizales</b> ; programme content comprised choral singing, then prayers (Pater Noster and Ave Maria) and part of Angelus, spoken by his Holiness the late Pope John-Paul II. Identical extracts on Radio María’s live audio stream at the same time later in the week, and thanks once more to Henrik Klemetz for validation. <b>UK FIRST</b>	F	0505	18/12	AB
1499.9	OBX41	Radio Santa Rosa, Lima (presumed); modern SS Christian songs & OM with religious lecture/sermon	W/F	0810	17/12	BD
1500	YVRT	R 2000 AM, Cumaná; local music and ‘escuchas Dos Mil’ ID	F	0451	22/12	AB
1510	WWZN	Boston MA; weak tlks	232	0505	18/11	GSc-K
1510	WWZN	Boston MA; Sporting News Radio	F/G	0004	22/11	PC
1510.02	WWZN	Boston MA; sports talk	W/F	0818	24/11	BD
1510	WWZN	Boston MA; sports results; Ads then “Sporting News Radio” then into ID “15-10 the Zone”	F	2320	3/12	JW
1510.02	WWZN	Boston MA, "Boston’s sports station- The Zone", legal ID 0500 2-4		0455	10/12	SHN
1510	WWZN	Boston MA; sports talk & infos	W	0440	11/12	Rha
1510	WWZN	Boston MA; sports	322	0616	24/12	MvA
1510	KGA	Spokane WA; “The Big Talker 15-10 KGA”	F/G	0832	30/12	mah
1520	WWKB	Buffalo NY; “This is Buffalo’s Left Channel AM15-20 WWKB	F	0800	25/11	JW
1520	WWKB	Buffalo NY; talk show	W/F	0834	25/11	BD
1520	WWKB	Buffalo NY; “Buffalo’s Left Channel, AM 15-20”	F	0850	25/11	PC
1520	WWKB	Buffalo NY; “Lionel, on Buffalo’s Left channel, AM 15-20”	F	0355	6/12	AB
1520	WWKB	Buffalo NY; tlk px, CNN Radio, promo/ID “ ... Leslie Marshall, live and local, weekdays noon ‘til 3 on AM 15-20”; then Joey Reynolds	Fpks	0907	20/12	mah
1520	WWKB	Buffalo NY; ads, “Buffalo’s left channel, AM 15-20”	Gpks	1048	30/12	mah
1520	KGDD	<b>Oregon City OR</b> ; Mexican mx, SS ID “La Gran D”; <b>personal first</b>	Wpk	1103	30/12	mah
1520	WVOZ	Radio Voz, PR; Spanish, ID	1-4	0215	8/12	SHN
1520	WVOZ	R Voz, San Juan PR; ID and rolling information about Puerto Rico	F	0200	16/12	JF
1520	HJLI	Vida AM Música, SF de Bogotá; SS ID “HJLI 1,520 kHz Vida AM Música”, jingle; also fpks 0901 20/12	F	0858	27/11	mah
1520	HJLI	Vida AM, Bogotá; Spanish	1-2	0747	7/12	SHN
1520	HJLI	Vida AM Música, Bogotá; many IDs and sung jingles. Announcements galore leading up to the toh. Mixing equal levels WVOZ	F	0200	16/12	JF
1520	HJLI	Vida AM Música, SF de Bogotá; mostly music. A few Vida AM IDs, and at 0602 “.. en Vida AM. Vida AM Música, 1520”	F	0602	17/12	AB
1521		CRI, Urumqi, China; RR ID “Radio Kitaya”	243	1400	17/11	GSc-K
1521		CRI, Xinjang, China; ID "Radio Kitay” as early as 1400; sometimes over S9 +10 signal	Exc	1450	27/11	SW
1521		CRI Urumqi, China; Russian info talk programme	F/G	1413	13/12	Rha
1521		CRI Urumqi, China; IS, ID’s in CC and RR; Russian px	252	1259	14/12	MvA
1521		CRI Urumqi, China; Russian px with CC songs; 1400 IS, ID’s	344	1344	16/12	MvA
1521		BSKSA Duba, Saudi Arabia; Arabic, information	444	2130	24/12	FW
1530		VOA Pinheira, São Tomé; EE VOA feature PX	W/F	2140	19/12	BD

kHz	Callsign	Station, location; details heard etc	SIO	UTC	Date	Who
1540	WDCD	Albany NY; "Life 15-40 WDCD"	F	2327	24/11	PC
1540	WDCD	Albany NY (pres); with programme talking about surveillance in the UK from the campus of the Freedom Village USA	F	0025	25/11	SW
1540	WDCD	Albany NY; ads, OM with "My good friend a missionary "On Face the Dial?" Christian songs	W	0158	25/11	JW
1540	WDCD	Albany NY; light rlg songs, ID "Life 15-40 WDCD"	F/G	2152	26/11	mah
1540	WDCD	Albany NY; "here on Life 15-40 WDCD AM" heard among strong QRM	W	0659	28/11	AB
1540	WDCD	Albany NY; Christian pops & promos	W	0810	14/12	BD
1540	CHIN	Toronto ON; Italian programme	W	0744	22/11	PC
1540	CHIN	Toronto ON; ID mentions 1540 and 100.7	F	0000	27/11	SW
1540	CHIN	Toronto ON; YL anns "40 years of multicultural broadcasting, celebrating our differences on CHIN Radio". First time heard for a while	G	0430	30/12	AB
1540	ZNS1	Nassau, Bahamas; "This is ZNS network news"	F	2330	26/11	PC
1540	ZNS1	Radio Bahamas, Nassau; Bahamas news	W/F	2331	26/11	BD
1540	ZNS1	Nassau, Bahamas; Caribbean music and 'right here on the National Voice' and 'AM 15-40 ?? Nassau' spoken quickly and difficult to understand the missing word	G	0221	27/12	AB
1540	<b>ZYH511</b>	<b>Radio Jornal, Soutu Soares</b> ; PP ID "Radio Jornal Soutu Soares" heard before some music; <b>UK FIRST</b>	W	0127	30/12	AB
1540	<b>ZYJ508</b>	<b>Radio Clube, Paraíba do Sul</b> ; very very rapid PP sports commentary and various mentions of "Radio Clube" and "Paraíba"; <b>UK FIRST</b>	F	0002	30/12	AB
1540	<b>ZYL226</b>	<b>Radio Clube de Minas Gerais</b> ; PP, possibly religious content; "Clube de Minas" heard; <b>UK FIRST</b>	W	0108	30/12	AB
1550		RASD Tindouf, Algeria; here every night particularly good	Exc	2200	26/11	SW
1550		RASD Tindouf, Algeria; AA chants; AA anns just before the toth, then mx and nice full SS ID "Radio Nacional Saharai, voz del pueblo sahara ... una emisora a su servicio"; SS anns	W/G	2248	1/12	mah
1550	KKAD	Vancouver WA (presumed); EZL style songs; xf Indian songs from presumed KRPI	Wpks	1110	22/11	mah
1550	KRPI	Ferndale WA; Indian mx, EE ID "You're listening to ... on 15-50 AM KRPI Ferndale"	P/Gpks	1000	31/12	mah
1550	CBE	Windsor ON; CBC News //1070	W	0804	10/12	PC
1557		Family R, Kouhu, Taiwan; Letterbox program in EE	444	1549	18/11	GSc-K
1557		WYFR, Taiwan; ID as Family Radio quoting from the Bible	Fpks	1556	27/11	SW
1560	WQEW	New York NY; "Happy Holiday from Radio Disney" (followed by that annoying frog tune)	F	0002	22/11	PC
1560	WQEW	New York NY; Radio Disney pops	W	0821	24/11	BD
1560	WQEW	New York NY; Radio Disney pops and "Radio Disney" ID	W	0747	10/12	JW
1560	WQEW	New York NY; anns & interruptions destroyed the R Disney pop sound	vW	0446	11/12	Rha
1566		AIR Nagpur, India; ID in Hindi phone conversation	Exc	1501	27/11	SW
1566		AIR Nagpur, India; Indian music	333	2212	22/12	MvA
1570	WECU	Winterville NC; anns, "We're 15-70 AM" and jingle "WECU 15-70 AM"; also Wpk 0849 26/12	W/F	0813	23/11	mah
1570	CKMW	Winkler MB; "Your sports station in southern Manitoba, Country 15-70 CKMW"	Fpk	1026	30/12	mah
1570	CFAV	Laval QC (presumed); FF songs with FF OM	W	0058	12/12	JW



kHz	Callsign	Station, location; details heard etc	SIO	UTC	Date	Who
1570	XERF	Ciudad Acuña; cuckoo, time check then OM and YL in joint ID. YL with 'X-E-R-F' and later YL 'La Poderosa' followed by OM – 'quince-setenta'	W	0802	27/12	AB
1570	XERF	Cd Acuña; cuckoo, SS TC, anns, ID "La Poderosa 15-70"; also Fpks 0831 26/12	F/G	0845	27/12	mah
1580	CKDO	Oshawa ON; (pres); oldies; to put the record straight, Paul's logging of this station of this station on 14/8 is the <b>UK FIRST</b> , beating my own logging of 17/8 as reported in MWN 52/04	W	0752	29/11	PC
1580	<b>HJQT</b>	<b>Radio Mar, SF de Bogotá</b> ; only five minutes of audio captured and of this mostly music, but thanks again to Henrik Klemetz who managed to identify it! It is R.Mar relaying R.Relej (HJCN). One announcement is "Radio Reloj 10-10"; <b>last heard in the UK in 1995</b>	F	0528	18/12	AB
1590	WAKR	Akron OH; "15-90 WAKR, your news authority"	W	0758	10/12	PC
1600	WLUZ	Bayamón PR; rhythmical music with almost no announcements, but lucky to catch "Radio Luz, mil seicientos AM"	Gpks	0625	24/12	AB
1620	WNRP	Gulf Breeze FL; C&W mx, ID "Classic Country AM 16-20"	253	0643	29/12	MvA
1620	KYIZ	Renton WA; R&B, "16-20 KYIZ, the north-west's first home of hip hop and R&B"; also Fpk 0835 30/12	Fpks	1026	22/11	mah
1620	WDHP	Frederiksted, USVI; BBC W/S football nx // 648 kHz	W/F	0746	23/11	BD
1620	WDHP	Frederiksted, USVI; BBC World Service (also "Radio República" in SS 0040 02/12)	F/G	0755	23/11	PC
1620	WDHP	Frederiksted, USVI; legal ID every hour through the night	W	2358	23/11	SW
1620	WDHP	Frederiksted, USVI (presumed); relay of WRMI, "Radio República" programme; at 0000 "Esta es Radio República, voz del vitorio ... transmitiendo para Cuba ..." and then "Desde Miami, capital latino-americana esta es WRMI Radio Miami Internacional 9555 kHz en la banda de 31 metros ... Miami Florida ..."; in and out of the noise	Wpks	2304	1/12	mah
1620	WDHP	Frederiksted, USVI; EE full ID, BBC news	252	0659	19/12	MvA
1620	WDHP	Frederiksted, USVI; "You are listening to WDHP 16-20 AM .. WRRR 1290 AM and WAXJ 103.5FM, followed possibly by two addresses, one in Frederiksted and one in St. Croix, but audio was too weak. Then pips and BBC WS. I've not heard this multi-station ID before.	W	0200	20/12	AB
1620	WDHP	Frederiksted, USVI; YL with ID and address BBC News	W	0700	22/12	JW
1630	WDRW	Augusta GA; John and Jeff Show	W/F	0808	23/11	PC
1630	KCJJ	Iowa City IA; record "Age of Aquarius" OM with ID"16-30 KCJJ"	W	0400	27/12	JW
1630	KRND	Fox Farm WY; "La Grande" ranchera mx	242	0718	15/12	MvA
1630	KRND	Fox Farm WY; "La Grande 16-30"; also Fpks 0754 29/12	F	0833	31/12	mah
1640	KDIA	Vallejo CA (presumed); rlg promo, px "Glorifying God, proclaiming truth, and reclaiming America for Christ, this is Truths that Transform ..."; agrees with schedule on website	Wpks	1030	22/11	mah
1640	WTNI	Biloxi MS; "For news and sports news Newsradio WTNI" ID	242	0500	18/11	GSc-K
1640	WTNI	Biloxi MS; ESPN sports talk	F	0750	23/11	BD
1640	WTNI	Biloxi MS; ESPN Radio	F	0754	23/11	PC
1640	WTNI	Biloxi MS (pres); Coast to Coast talk programme	W	0610	24/11	Rha
1640	WTNI	Biloxi MS (presumed); "ESPN Radio" sports talk; auroral	W/F	0848	19/12	mah

<b>kHz</b>	<b>Callsign</b>	<b>Station, location; details heard etc</b>	<b>SIO</b>	<b>UTC</b>	<b>Date</b>	<b>Who</b>
1640	WTNI	Biloxi MS; ads ABC News "WTNI" heard	W	0558	26/12	JW
1640	WTNI	Biloxi MS; ESPN Radio, credit card adv; Mike and Mike on the radio	343	0635	29/12	MvA
1640	KDZR	Lake Oswego OR; ID "Radio Disney Portland" pops	Fpks	1013	22/11	mah
1640	WSKH	Sussex WI; Radio Disney programming	W	0710	21/12	JF
1650	WHKT	Portsmouth VA; Radio Disney // 1560 kHz	W	0746	22/11	PC
1650	WHKT	Portsmouth VA; Radio Disney pops; "16-50 Radio Disney" ID	W	0754	23/11	BD
1650	WKHT	Portsmouth VA; Radio Disney pop music	W	0613	24/11	Rha
1650	WHKT	Portsmouth VA; children's programmes. Radio Disney IDs; toh "community ... from ... Norfolk, Radio Disney"	W	0700	21/12	AB
1650	WHKT	Portsmouth VA; Radio Disney ID, mx La Bamba	243	0732	21/12	MvA
1660	KTIQ	Merced CA (presumed); Mexican songs, anns "...tu radio, Radio Amistad de ..."; can anyone confirm that this slogan matches programming carried by this station?	W/F	0955	30/12	mah
1660	WCNZ	Marco Island FL; "Relevant Radio" ID's	242	0517	18/11	GSc-K
1660	WCNZ	Marco Island FL; full legal ID for WMYR 1410 and WCNZ; Relevant Radio	F	0000	22/11	SW
1660	WCNZ	Marco Island FL; "Relevant Radio for South West Florida" ID	W/F	0758	23/11	PC
1660	WCNZ	Marco Island FL; many "Relevant Radio" IDs at top of the hour. Religion. Also mentioning 1410 WMYR Fort Myers as part of the network	F	0259	25/11	JF
1660	WCNZ	Marco Island FL; religious call in show	W/F	0721	27/11	BD
1660	WCNZ	Marco Island FL; "Relevant Radio", EE religious, QRM de WGIT (dominant)	1-2	0420	10/12	SHN
1660	WCNZ	Marco Island FL; "Relevant Radio"; auroral	W/F	0850	19/12	mah
1660	WCNZ	Marco Island FL; usual religious programme, TOH legal ID: "WMYR Fort Myers; WCNZ Marco Island Naples. Relevant Radio."	G	0300	22/12	AB
1660	WCNZ	Marco Island FL; OM with religious talk, Christmas Concert and ID "Relevant Radio"	F	2356	26/12	JW
1660	WWRU	Jersey City NJ; "This is multicultural radio broadcasting, WWRU Jersey City / New York City"	F	0200	25/11	JF
1660	WWRU	Jersey City NJ; in Korean I guess	1-2	0500	10/12	SHN
1660	WWRU	Jersey City NJ; Korean talk	F	0753	10/12	PC
1660	WWRU	Jersey City NJ; KK music & chat	W	0735	20/12	BD
1660	WWRU	Jersey City NJ; OM with ID "This is WWRU .... Jersey City..."	F	2300	20/12	JW
1660	WWRU	Jersey City NY; EE toh legal ID "This is Multicultural radio Broadcasting ... New York City 16-60 AM WWRU"	F	0600	21/12	AB
1660	WWRU	Jersey City NJ; Korean px; full ID at 0700 in EE	343	0645	22/12	MvA
1660	WFNA	Charlotte NC (pres); ESPN Radio	W	0757	23/11	PC
1660	WFNA	Charlotte NC; unbroken sports commentary but finally heard a mention of "wfna.com" at 0300 in the pile-up.	W	0300	25/11	JF
1660	WFNA	Charlotte NC; sports report, ESPN	242	0616	16/12	MvA
1660	WFNA	Charlotte NC; ESPN programming with toh legal ID "16-60 AM WFNA" and sounding like a second call "WQNE then Sports Leader of the South"	F	0500	21/12	AB
1660	WGIT	Canóvanas PR; "La Gigante" ID in SS rock music	W/F	2243	19/12	PC
1660	WGIT	Canóvanas PR; "Voz Gigante, Puerto Rico" heard behind WCNZ – later rhythmical music	F	0302	24/12	AB
1670	<b>KNRO</b>	Redding CA; ESPN Radio; toth ID "16-70 KNRO Redding"	Wpks	1000	30/12	mah

kHz	Call sign	Station, location; details heard etc	SIO	UTC	Date	Who
1670	WVVM	Dry Branch GA; SS music "Viva 16-70"	F	0751	23/11	PC
1670	WVVM	Dry Branch GA; call letters spoken slowly at top of the hour and "Radio Católica" ID. Mexican music. Spanish language.	W	0600	25/11	JF
1670	WVVM	Dry Branch GA; SS mx and "somos Viva" ID	G	0432	18/12	AB
1670	WVVM	Dry Branch GA; Viva ID, SS song	242	0609	21/12	MvA
1670	WVVM	Dry Branch GA; Mexican mx, SS anns "... más música Viva 16-70 ... la Viva ..."	W	0757	31/12	mah
1680	WLAA	Winter Garden FL; Qué Buena IDs & SS romantica mx	W/F	0617	24/11	Rha
1680	WLAA	Winter Garden FL; Mexican pops	W	0802	6/12	BD
1680	WLAA	Winter Garden FL; ID: "¡Qué Buena!"	2-3	0710	7/12	SHN
1680	WLAA	Winter Garden FL; more SS mx and "Qué Buena" ID	F	0440	18/12	AB
1680	WLAA	Winter Garden FL; "La Qué Buena" ID heard between musical items in SS	W/F	0802	20/12	PC
1680	WLAA	Winter Garden FL; OM with ID "WLAA" (plenty of echo on this") SS Melodies	F	0658	21/12	JW
1680	WLAA	Winter Garden FL; SS "La Qué Buena"	343	0703	23/12	MvA
1680	<b>KDOW</b>	Seattle WA; SS programming, "16-80 La Jefa"; then tuned away, returning to catch EE ID "AM 16-80 KDOW, Seattle, a service of Salem Communication"; xf Radio Disney; also Wpks 1051 22/11, Wpks 0800 29/12	Gpks	0900	30/12	mah
1680	HI--	Radio Senda, San Pedro de Macoris; SS; religious tlk & info; "Radio Senda" ann	W/Fpks	0347	4/12	Rha
1690	WMLB	Avondale Estates GA; "The Voice of the Arts"; class mx	232	0729	20/12	MvA
1690	WMLB	Avondale Estates GA; Classical piano music and "AM 16-90 The Voice of the Arts"	F pks	0652	21/12	AB
1690	WPTX	Lexington Park MD; toh ID "You're listening to Newstalk 16-90 AM WPTX Lexington Park" behind het and QRM from the Greek pirate	W	2200	24/11	AB
1690	WPTX	Lexington Park MD; "You're listening to News Talk 16-90 AM WPTX Lexington park"	W/F	2130	2/12	mah
1690	WPTX	Lexington Park MD; CNN rolling nx	W	0755	6/12	BD
1690	WPTX	Lexington Par, MD; "You're listening to Newstalk 16-90 AM WPTX Lexington Park"	F	0800	6/12	PC
1690	WPTX	Lexington Park MD; News-Talk ID	1-2	0720	10/12	SHN
1690	WPTX	Lexington Park MD; nx	232	0730	20/12	MvA
1690	WPTX	Lexington Park MD; ads (faded) then CNN news	W	0658	22/12	JW
1700	WEUP	Huntsville AL; OM anns amid Gospel mx "WEUP - The People's Station. ?? and praise continues"	F	0427	18/12	AB
1700	WEUV	Huntsville AL (presumed); Gospel singing	W	0728	14/12	JW
1700	WJCC	Miami Springs FL; ID in English, otherwise Spanish, Música Romántica	1-2	0600	3/12	SHN
1700	WJCC	Miami Springs FL; EE ID	232	0700	20/12	MvA
1700	KKLF	Richardson TX; Coast to Coast, KLIF 560 ID	232	0650	28/12	MvA
1700	KKLF	Richardson TX; "That'll be right back with more Coast to Coast AM on 5-70 KLIF America's talk station", nx	F	0730	28/12	mah
1700	KKLF	Richardson TX; article about the death of Saddam Hussein, then 5-70 KLIF; weak behind a very strong KVNS	W	0806	31/12	AB
1700	KVNS	Brownsville TX ; EE Coast to Coast, ID	243	0643	14/12	MvA

<b>kHz</b>	<b>Callsign</b>	<b>Station, location; details heard etc</b>	<b>SIO</b>	<b>UTC</b>	<b>Date</b>	<b>Who</b>
1700	KVNS	Brownsville TX; a 1700 KVNS EE ID in the mix, two hours before PC heard an SS one. Is this the last of KVNS Newstalk format?	F	0557	18/12	AB
1700	KVNS	Brownsville TX (presumed); end of Talk show C2C ads then faded	F	0557	18/12	JW
1700	KVNS	Brownsville TX; Mexican music and SS OM; <b>new format</b>	W	0757	18/12	JW
1700	KVNS	Brownsville TX; Mexican National Anthem at 0801. At 0820 "A partir de hoy estamos.... (Starting from today we are....)", then mention of "KVNS" in SS. Various enquiries resulted in confirmation from KVNS that the <b>format had changed to SS at 0600</b>	W/F	0801	18/12	PC
1700	KVNS	Brownsville TX ; <b>new format</b> in SS; "La Preciosa"ID	233	0734	25/12	MvA
1700	KVNS	Brownsville TX; SS ID as "La Preciosa"; also W/F 0823 27/12	G	0838	31/12	mah
1700	<b>XEPE</b>	<b>Tecate</b> ; EE news, ads, PSA mentioning Mexicali, "Cash 1700" ID; EE rolling news format; <b>UK FIRST</b>	Wpks	0939	30/12	mah

Many thanks to the following reporters:

- AB Andrew Brade, Holme-on-Spalding Moor, East Riding of Yorkshire;. AOR AR 7030 plus, 40m EWE at 290°, 305m beverage at 220°. Recording on Sony MZ-NH1 minidisc + Total Recorder.
- BD Barry Davies, Carlisle, Cumbria. AOR AR 7030, 130m longwire.
- BOC Giampiero Bernardini; Bocca di Magra (SP) Italy; SDR-14, CiaoRadio, AOR 7030; Wellbrook LFL 1010
- DV David Visser, Krimpen ad IJssel Holland. AOR 7030+ Quantum Loop.
- FW Friedhelm Wittlieb, Lünen, Germany. Satellit 700, KW-Loop and Martens-Rahmen.
- GSc-K Guido Schotmans, DX-weekend (17-18-19 Nov), Kasterlee Belgium, 35, 270 and 300° beverage. AOR AR-7030
- JF John Faulkner, Sutton-in-Ashfield, Notts. AOR AR7030, Dream v1.6.38csv, ewe antenna.
- JW John Williams, Hemel Hempstead. AOR 7030 and 40m long wire.
- KB Ken Baird, Sorn, Ayrshire, Scotland. Mainly NRD 545, 500m NW beverage.
- mah Martin Hall, Clashmore, Sutherland. NRD-545, RPA-1 preamp, beverages: 513m at 240°, unterminated; 506m at 290°, terminated; 588m at 315°, terminated; 550m at 340°, terminated.; TotalRecorder, Technics RS-BX404 cassette deck.
- MvA Max van Arnhem, Hoenderloo, The Netherlands; AOR7030plus, Super KAZ 70 degrees; Super KAZ 250 degrees; Super KAZ 290 degrees.
- PC Paul Crankshaw, Troon, Scotland, AOR AR7030, EWE, DREAM IF Filter, RecAll-Pro
- RD Robert Davidson; Bratislava, Slovakia. Kenwood R-5000, 60m long wire.
- Rha Ronald Hagensen, Ottersberg, Germany. AOR 7030plus, 22m longwire direction 315°, 28m longwire direction 280° & ALA 1530+ in direction 065° & Mizuho antenna coupler.
- SHN Stig Hartvig Nielsen, Rømø, Denmark. Beverage.
- SW Steve Whitt, High Catton near York. AOR7030+ and HF225 Europa with dual loop K9AY.

**Barry** bemoans the poor conditions experienced during November and December: "The midwinter anomaly from late November continues here in Carlisle producing weak/feeble signal and a lot of shushshsh! Fingers and everything else crossed for better conditions South of the border in January hi!". **John W** also reports: "Another very disappointing month - not much heard here although a few x band stations came through". **John F** has a similar story: "Conditions over the last month have been appalling. Here we are in the solar minimum and personally I have experienced some of the worst conditions I have ever known! Were it not for some loggings from the back end of November I would have next to nothing to report this month. We leave 2006 with what I assume

must be 'midwinter anomaly' conditions because, despite a good run of low indices at the end of December, there is hardly any DX to show for it. At least, this is how it has been in the North Midlands. Conditions really could not get much worse". **Andrew** comments on his contribution: "This log looks, as others have said, more like a midsummer one than midwinter!" **Paul C** adds: "I'm afraid I have no printable comments for the past month".

It's pretty much the same story from mainland Europe. **Guido** writes: "Here is once again (after my DX-183 logbook) another logbook for MWC. Last weekend, I was at the DX-Antwerp DX-weekend in Kasterlee and used beverage antennas towards 35, 270 and 300 degrees. The conditions to the Americas were still not recovered but I managed to hear VoVietnam which is a first for me for reception in Belgium. WYFR, Kouhu, Taiwan was very strong". **David** notes: "Here 2 loggings from Holland, but what a difference with my first contribution to the MWC in November 1971 (issue 116). But I cant help, hi". **Friedhelm's** story is similar: "Now my logs from Africa and the middle east. No TA ???! In Lünen I had poor conditions. I hope für the next time". **Ronald** adds: "Unstable loggings from 24th November & 4th, 11th, 13th & 14th December, without exception weak, poor to very poor conditions; it's a pity for DXing – hope of better!"

**Max** writes: "Please, find enclosed my loggings. At the end of November we moved to Hoenderloo, a very quiet village surrounded by forest and a National Park. This also means a low noise level on the bands and space for some aerial experiments. Between all the work after moving I found some time to set up three Super KAZ antennas (base wire 24 meters long and 2 meters above the ground and the highest point of the antennas 8 meters); direction 70, 250 and 290 degrees. I am very happy with these antennas; I still have to experiment with the termination resistors, several types of baluns and phasing possibilities. Despite the very bad MW conditions I managed to hear some interesting stations like KKLf Sherman, TX, KRND Cheyenne, WY and WFNA Charlotte, NC, all stations I never heard before".

**Stig** tells us about his stay on Rømø: "I was listening every night December 7-10 staying on the island of Rømø - close to Germany on the Danish west coast and with a quite long beverage (some 5- or 600 meters in the marsh - even crossing a small pool of water). Reception conditions were absolutely appalling with only a very few stations from northern South America and the Caribbean being heard. There was a total absence of North American stations (except a couple of Florida stations) all nights - except a couple of hours in the early morning of December 10 when a few of the most common East coast stations were heard".

In **Clashmore**, there have been some good high latitude path openings, but unfortunately these weren't experienced further south. The end of November and early December brought some good conditions to west coast North America, Alaska and the prairies. Conditions turned poor to North America from 7<sup>th</sup> December, but this was compensated for to a degree by some interesting reception from South and Central America, and the Caribbean area. Excellent DX conditions were then observed from 27<sup>th</sup>-31<sup>st</sup> December, with 28<sup>th</sup> being the best for the prairies, 29<sup>th</sup> for Alaska, and 29-30<sup>th</sup> for the west coast of North America. The good conditions extended into January for a couple of days, the best DX being 1500 KUMU on Ne'er Day – but more of this next time! Throughout December, conditions to east coast North America have been mainly poor, with only a few days of better reception.

The **deadline** for the February DX Loggings is **Saturday 27<sup>th</sup> January**. I look forward to receiving your logs by then, preferably electronically/via e-mail using the Word pro-forma, which I can supply on request. Please remember that I don't automatically include loggings sent to the MWC e-List, so please copy me separately if you would like them included in DX Loggings.

73's Martin