

PE1ABR / Walter's beacon list

Rx location:

Vlissingen (=Flushing) - utmost SW part of The Netherlands

locator: JO11SK

According to my Garmin: 51 deg 27.228 North by 3 deg 34.255 East

In the middle of the city, so a high noise level available.

Rx conditions:

Rx : JRC NRD 515 with modified (impedance) Kenwood 250 Hz X-tal filter.

Self designed high-dBm active aerial (input/output gain =1) + 150 square meter untuned coax loop with add-on tuner for more selectivity + 20dB high-dBm self designed amplifier. See web site at bottom or Google-it.

Self build LF-NDB version of the MFJ-1025 phasing unit for the above two aerials, a modified / cloned / improved version of the MFJ design. This is a device to cancel out or amplify a signal from a specific angle of reception. If they don't prosecute me, I could make it public.

For all the beacons in this list: If NOT recently logged: Mostly good DX for only once, occasionally: beacon is withdrawn and not known.... Recent withdrawn beacons still listed here (or on a separate, last, page) for reference and awareness for others. Remember: the best DX is only during the (dark) winter period. So it could take at least a whole year to hear a seldom heard beacon back again.

AND you need the same DX activity in the air. The older the logging, the harder to get....

Time is in 24:00 hour notation. For the sake of ease and to avoid (personal) errors, time is noted in unusual MET (=local) time. = UTC+1 during winter and UTC+2 during summer.

Lack of sleep is also more easily visible.

Almost all the nearby maritime beacons are being replaced with DGPS service from the old locations.

Because I want to note at least "something" of what is heard, the new DGPS service is mentioned. Almost (?) continuous in the air and also always audible, so a time check is useless.

Help from the NDB compilation list by R.A. Connolly and the NDB web site info from Alan Gale <http://www.alan.gale.clara.net/enter.htm> and Mr. Connolly. <http://www.kilkeel7.freemove.co.uk/>

NDB list order possibility via Robert Connolly:

<mailto:robert@kilkeel7.freemove.co.uk>

Because the following list (MY list) is a "heard" beacon list, and NOT an availability list of this moment (see Connolly's site), it is probably NOT up-to-date with respect to beacons that are meanwhile taken out of the air!

It is a collection of what is HEARD and most probably still in the air! If out of the air, I'm unaware of that, and the loggings were taken before.

A lot of nice marine NDB loggings have already been removed due to

changes.....

(I've heard a lot more than now available. See also last page with withdrawn NDB's)

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Cor van Soelen's place: <http://web.inter.nl.net/hcc/Shortwave/>

The NRD-515 addition:

<http://people.zeelandnet.nl/wgeeraert/index515.htm>

Some NDB photographs:

<http://people.zeelandnet.nl/wgeeraert/baken.htm>

Carrier freq.	Mod. f's heard on	Call	Name	Cty Code	Last logged on hh:mm DD-MM-YY
211.0	212.0	LKW	Lyulyakovo	BUL	00:50 10-11-97
263.0	263.5	QY	Sydney Airport Nova Scotia	CAN	01:12 30-12-96
265.0	266.0	KAV	Pula (Kavran)	CRO	00:40 15-03-99
265.0	266.0	ZL	Zolochiv	RUS	00:20 10-01-98
267.0	267.4	FNO	Foyno (Haugesund - Karmoy)	NOR	00:10 15-11-01
267.5	268.5	OPW	Otopeni - Bucuresti	ROM	01:46 17-11-01
270.1	271.1	FLO	Flores Aero - Azores Isl.	POR	00:34 15-11-01
274.0	273.1	JL	Yalta	UKR	00:24 14-01-98
274.0	274.0	SAL	Sal - Cape Verde Island	POR	01:43 17-11-01
275.0	275.4	VG	Vaga	NOR	12:45 16-11-01
275.0	275.4	VLI	Vlissingen	NED	00:01 01-04-93
276.5	277.5	BW	Bremen West	DUI	22:55 10-11-01
277.0	276.0	PO	St. Petersburg	RUS	00:12 25-07-96
277.0	276.6	CHT	Chiltern	GBR	22:56 10-11-01
277.0	276.0	GOL	Goljama	BUL	00:14 11-12-98
277.0	277.0	BRY	Bray sur Seine	FRA	17:15 26-07-98
280.0	280.4	QX	Gander Intl. NewFoundl.	CAN	01:35 25-12-98
282.0	281.6	LA	Lyneham	GBR	12:00 11-11-01
284.0	283.5	MY	Maradi ??? - Niger	NIG	12:15 11-11-01
284.0	283.0	GRN	Gorna	BUL	00:45 20-11-01
284.0	283.0	FSB	Fassberg Air Force	DUI	14:09 16-11-01
---.-	284.0	---	Lizard Point DGPS	GBR	xx:xx
284.5	283.5	DY	Dusseldorf (LOM)	DUI	12:05 11-11-01
284.5	284.5	PR	Porkkala Pilot station	FIN	21:35 30-12-96
284.0	284.5	MA	Cabo Machichaco Lt.H.	SPA	15:00 16-11-01
285.?	285.0	NTE	??	??	01:10 31-12-97
285.0	286.0	PT	Katowice	POL	01:22 17-11-01
286.5	286.5	TA	Villacoublay	FRA	13:57 16-11-01
---.-	287.0	---	?? DGPS	??	xx:xx
287.3	286.3	HA	Haifa - Cape Carmel Lt.H.	ISR	01:20 24-12-96
---.-	287.5	---	Hoek van Holland DGPS	NED	xx:xx
288.5	288.5	FI	Cabo Finisterre Lt.H.	SPA	22:34 15-12-98
288.5	288.5	AVD	Avord Air Force	FRA	22:34 15-12-98
289.0	289.0	QB	Quiberon cancelled??	FRA	19:46 13-12-98
290.0	289.7	TP	Oulu	FIN	00:30 27-12-97
290.0	290.4	TR	Tirana (Albania)	ALB	19:27 23-12-98
290.0	291.0	ONL	Liege (=Luik) / Bierset	BEL	15:00 10-11-01
290.0	290.5	IV	Ivano - Frankivsk	UKR	21:45 10-10-96
290.0	291.1	GRZ	Graz	AUS	00:10 25-11-97
290.5	290.5	VI	Cabo Villano Lt.H.	SPA	22:55 13-12-98
---.-	290.5	---	?? DGPS	??	xx:xx
---.-	291.0	---	?? DGPS	??	xx:xx
---.-	291.5	---	?? DGPS	??	xx:xx
292.0	290.8	FLD	Friedland cancelled??	DUI	21:50 10-10-96
292.0	291.0	NKR	Neckar (Heidelberg AAF)	DUI	19:50 22-12-96
293.0	292.0	OB	Brussels Natl.(Zaventem LOM)	BEL	15:00 10-11-01
292.5	292.5	BA	??	??	16:35 17-11-01
294.0	293.2	VRA	Vrsac	SRB	00:50 26-12-97
---.-	293.5	---	St Catherines Point DGPS	GBR	xx:xx
294.0	294.0	XV	??	??	19:30 13-12-98
---.-	294.0	---	Butt of Lewis DGPS	GBR	xx:xx
295.0	294.5	LH	Ludvika	SWE	01:00 26-12-97
---.-	295.5	---	?? DGPS	??	xx:xx
---.-	296.0	---	Djupivogur DGPS	ICE	xx:xx
296.0	295.0	MG	Ljubljana	SLV	00:45 27-12-97

295.5	295.5	EM	Etampes - Mondesir	FRA	19:17	13-12-98
295.5	295.5	JA	Jaroslavec	POL	19:23	23-12-98
296.0	295.7	JYV	Jyvaskyla	FIN	01:00	26-12-97
---	296.5	---	Blavandshuk	DGPS	DEN	xx:xx
---	297.0	---	??	DGPS	??	xx:xx
---	297.5	---	Pointe de Barfleur	DGPS	FRA	xx:xx
298.0	298.0	EL	Elbe Lt.H.	DUI	15:10	25-12-98
---	298.0	---	Mantyluoto	DGPS	FIN	xx:xx
---	298.5	---	Skagen	DGPS	DEN	xx:xx
---	299.0	---	Nash Point	DGPS	GBR	xx:xx
---	299.5	---	Ameland	DGPS	NED	xx:xx
299.0	300.1	SL	Berlin - Schonefeld	DUI	23:30	28-09-96
300.0	301.2	KD	Prague (Praha) Ruzyne East	CZE	01:28	27-04-97
300.0	300.4	SC	Linkoping Malmen Saab	SWE	23:07	13-12-98
300.5	301.5	LW	Cologne (=Koeln) / Bonn	DUI	14:40	25-12-98
---	301.0	---	Lista	DGPS	NOR	xx:xx
---	301.5	---	Raufarhofn	DGPS	ICE	xx:xx
---	302.0	---	Hoburg	DGPS	SWE	xx:xx
---	302.5	---	Flamborough Head Lt.H.	DGPS	GBR	xx:xx
---	303.0	---	??	DGPS	??	xx:xx
303.0	304.0	RTT	Rattenberg (Innsbruck)	AUS	01:10	20-01-97
303.0	302.2	KA	??	??	21:50	17-08-95
303.0	304.1	WO	Wien - Schwechat (LOM)	AUS	21:30	03-05-97
303.5	303.5	FN	Feistein	NOR	22:50	15-12-98
303.5	303.5	BJ	Bjornsund, Mooya	NOR	23:05	13-12-98
---	303.5	---	??	DGPS	??	xx:xx
---	304.0	---	Sumborough Head	DGPS	GBR	xx:xx
---	304.5	---	Cap Bear	DGPS	??	xx:xx
304.5	304.5	MY	Cabo Mayor	SPA	13:18	31-10-96
304.0	305.0	TND	Tandarei	ROM	01:13	26-12-97
---	305.0	---	??	DGPS	??	xx:xx
305.0	306.0	MST	Greven Munster - Osnabruck	DUI	14:30	25-12-98
305.5	305.5	FP	Fife Ness Scotland	GBR	17:48	13-12-98
305.7	304.8	DA	Dalatangi Lt.H.	ICE	23:25	15-01-97
---	306.0	---	??	DGPS	??	xx:xx
306.0	304.8	SG	Stuttgart (US A.F.)	DUI	23:20	15-01-97
306.0	306.4	AV	Avord airforce	FRA	16:35	29-09-96
306.5	306.5	H	Hel Lt.H.	POL	22:48	26-10-96
---	307.0	---	Utsira / Vardo ?	DGPS	NOR	xx:xx
306.5	307.5	RS	Ristina Lt.H.	EST	22:40	20-09-98
307.0	308.0	DIK	Diekirch	LUX	00:57	20-11-01
307.0	307.8	PG	Prague	CZE	00:25	21-10-97
---	307.5	??		DGPS	??	xx:xx
---	308.0	??		DGPS	??	xx:xx
308.0	308.4	DI	Dagali	NOR	18:38	07-12-96
---	308.5	---	??	DGPS	??	xx:xx
309.0	308.6	LG	Satenas	SWE	00:58	20-11-01
309.0	310.0	WW	Antwerpen/Deurne	BEL	15:00	10-11-01
309.5	309.5	BA	Punta Estaca de Bares Lt.H.	SPA	23:00	20-09-98
---	309.5	---	Fruholmen	DGPS	NOR	xx:xx
310.0	309.7	KUR	Kurki Vehkaa/Kuopio	FIN	22:55	20-10-97
311.0	310.0	LMA	Lima - Bruggen/ Dusseldorf	DUI	00:59	20-11-01
---	310.5	---	North Foreland	DGPS	GBR	xx:xx
312.0	312.4	KBG	Karlsborg (airforce)	SWE	01:50	25-12-98
312.0	312.0	OE	Oostende - cancelled!!	BEL	19:10	31-12-97
---	312.0	---	??	DGPS	??	xx:xx
---	312.5	---	??	DGPS	??	xx:xx
312.5	312.5	AK	Amenrags	LET	01:50	25-12-98

312.5	312.5	LB	Liepaja	LET	01:54	25-12-98
312.5	312.5	BT	Mys. Taran Lt.H.	RUS	01:56	25-12-98
312.5	312.5	BK	Baliysk	RUS	01:58	25-12-98
---.-	312.5	---	Oostende Rear Lt.H.	DGPS	BEL	xx:xx
---.-	313.0	---	Dune (Helgoland)	DGPS	DUI	xx:xx
314.0	313.0	OZ	Brussels Natl.(Zaventem LOM)	BEL	15:00	10-11-01
---.-	314.5	---	Wustrow Lt.H.	DGPS	DUI	xx:xx
314.5	314.5	TL	Punta Della Penna Lt.H.	ITA	19:44	27-12-96
315.0	315.4	STK	Stadskanaal	NED	14:40	18-11-01
316.0	315.6	EPM	Epsom	GBR	14:41	18-11-01
316.0	316.3	OE	Dublin	IRE	00:32	02-01-98
316.0	316.4	PH	Eindhoven	NED	14:41	18-11-01
317.0	317.3	HG	Hegra (Trondheim-Vaernes)	NOR	00:35	14-12-96
317.0	317.0	VS	Valenciennes - Denain	FRA	14:42	18-11-01
317.0	317.2	LV	???? Car.315 = Lvov-UKR	??	00:12	29-09-96
317.0	317.4	OKG	Cheb	CZE	00:50	27-12-98
317.5	318.5	TRP	Trapani-Birgi Sicily !!	ITA	00:42	29-03-97
318.0	317.7	YV	Ylivieska	FIN	00:50	27-12-97
318.0	318.4	LP	Ronneby	SWE	01:03	20-11-01
318.0	319.0	LE	Luxemburg	LUX	14:46	18-11-01
319.0	318.6	VAR	Stavanger / Varhaug	NOR	14:47	18-11-01
320.0	319.0	SA	Timisoara - Giarmata	ROM	14:46	18-11-01
320.0	319.0	HA	Hannover East (LOM)	DUI	14:20	10-11-01
320.0	320.0	TY	Troyes - Barberey	FRA	14:52	18-11-01
320.0	320.2	GLA	Gland - Geneva	SUI	01:09	27-12-97
321.0	320.7	VS	??	??	19:23	27-12-96
321.0	320.6	SP	Skrydstrup - Vojens	DEN	14:20	10-11-01
321.0	321.0	GV	Granville	FRA	18:00	01-06-97
321.0	321.4	STM	St. Mary's Scilly Isls	GBR	00:42	02-01-98
321.0	321.4	CRN	Galway	IRL	00:42	02-01-98
321.5	322.6	GL	Tegel-East / Berlin (Fr. AF)	DUI	17:40	07-12-96
322.0	322.4	LCY	London/city	GBR	15:02	18-11-01
322.0	322.4	OU	Stockholm - Bromma	SWE	00:25	03-01-98
322.0	321.7	KOR	Korso - Helsinki	FIN	00:50	02-01-98
323.0	322.0	ONC	Charleroi (Brussels South)	BEL	15:00	10-11-01
323.0	323.4	WPL	Welshpool	GBR	01:25	27-12-97
323.0	323.4	SBL	Sherburn-in-Elmet (Leeds)	GBR	15:06	18-11-01
324.0	323.6	ON	Norkoping/Kungsangen	SWE	17:27	13-12-98
324.0	323.6	ML	Tirstrup - Aarhus	DEN	14:30	10-01-98
325.0	324.6	KAU	Kaunas	LIT	01:04	02-01-98
325.0	324.7	JOE	Joensuu	FIN	01:29	27-12-97
325.0	324.0	DP	Diepholz / German airforce	DUI	14:25	10-11-01
325.0	325.4	OF	Briston / Filton	GBR	14:30	10-11-01
326.0	324.7	OL	Ghaba - Oman	OMA	01:35	27-12-97
326.0	325.7	SUI	Tampere	FIN	00:30	03-01-98
326.0	325.7	RSH	Dublin	IRE	00:30	03-01-98
326.0	325.7	OMA	Omastrand	NOR	16:20	17-01-98
326.0	326.4	OG	Gavle - Sandviken (A.F.)	SWE	19:22	31-12-97
326.0	325.6	YW	Tyra West (Int. waters)	---	15:10	18-11-01
326.0	326.4	LLS	Lelystad	NED	15:10	18-11-01
327.0	328.1	LV	Cologne (=Koeln)	DUI	16:24	17-01-98
327.0	327.0	MVC	Merville / Calonne	FRA	14:30	11-10-01
327.0	328.1	LNZ	Linz - Horsching	AUS	01:02	02-01-98
---.-	327.5	---	??	DGPS	??	xx:xx
328.0	328.4	VJ	Stauning	DEN	19:30	31-12-97
328.0	328.4	BLK	Blackbushe	GBR	14:30	10-11-01
329.0	327.8	KQ	Krupki	RUS	01:00	02-01-98
329.0	329.4	JW	Jersey / Channel Islands	GBR	14:30	10-11-01

329.0	328.6	WU	Umea	SWE	00:44	03-01-98
329.5	328.6	HR	Heather North Sea	?	17:25	07-12-96
330.0	329.6	SBY	Strubby	GBR	17:09	13-12-98
330.0	330.9	CRS	Caransabes (2nd=+/-328.6)	ROM	00:13	04-01-97
330.0	329.7	LNA	Lena	SWE	00:46	03-01-98
330.0	330.4	SO	Eelde - Groningen	NED	14:45	10-11-01
330.0	330.4	SB	Sonderborg	DEN	13:50	29-09-96
330.0	331.2	PNO	Warsaw	POL	00:52	03-01-98
330.0	331.2	LEN	Leon	FRA	00:55	03-01-98
330.0	331.2	OB	Bratislava	CZE	01:00	03-01-98
331.0	331.4	TE	Thisted (east)	DEN	01:10	03-01-97
331.0	331.3	GST	Gloucestershire	GBR	14:45	10-11-01
331.0	331.6	KAN	Kangas	FIN	00:50	03-01-98
331.5	331.5	TLF	Toulouse	FRA	01:17	03-01-98
332.0	333.0	HAE	Hannover (LOM)	DUI	14:48	18-01-98
332.0	331.5	VA	Ylivieska	FIN	01:12	03-01-98
332.0	331.6	SHM	Shoreham	GBR	14:40	10-11-01
332.0	332.4	LL	Lille - Lesquin	FRA	14:40	10-11-01
332.0	332.4	NV	Schiphol (near Nieuwkoop)	NED	14:40	10-11-01
332.5	332.9	CAM	Cambridge	GBR	14:51	10-11-01
333.0	333.3	SMF	Sheffield	GBR	14:53	10-11-01
333.0	333.4	LE	Vasternas - Hasslo	SWE	01:40	30-12-96
333.0	333.4	SHO	Sean North Sea	??	19:28	30-12-96
333.0	333.4	G	Golf - Kemi	FIN	19:28	30-12-96
334.0	334.4	GMN	Gormanstown	IRL	12:33	24-12-98
334.0	334.4	BGW	Paris - Le Bourget	FRA	14:55	10-11-01
334.0	334.4	FAU	Fauna (Ronne/Bornholm)	DEN	00:43	29-09-96
334.0	334.4	OPA	Gardermom	NOR	00:10	23-12-97
335.0	335.4	WCO	Westcott	GBR	14:51	10-11-01
335.5	335.9	TWN	Twenthe - Enschede	NED	14:50	10-11-01
336.0	336.4	BTA	Bratta - Bergen / Flesland	NOR	19:40	30-12-96
336.0	336.4	LT	Halmstad (airforce)	SWE	19:44	30-12-96
337.0	337.4	EX	Exeter (LOM)	GBR	14:48	10-11-01
337.0	337.4	WTN	Warton (Blackpool)	GBR	12:09	21-09-97
337.0	337.4	OZ	Soderhamn	SWE	00:25	23-12-97
337.0	337.4	MY	Myggenes FarOer Isl.	FAR	00:26	23-12-97
338.0	338.4	OA	Jonkoping-Huskvarna	SWE	14:10	31-12-97
338.0	338.4	GE	Gatwick - London	GBR	14:45	10-11-01
339.0	338.6	BIA	Bournemouth	GBR	14:45	10-11-01
339.0	338.0	WK	Velikiye Luki duo with AY	RUS	00:50	29-09-96
339.0	338.4	AY	Velikiye Luki duo with WK	RUS	22:00	30-12-96
339.0	338.6	ZL	Zuid-Limburg	NED	14:50	10-11-01
339.0	339.0	GI	Glisy - Amiens	FRA	14:55	10-11-01
340.0	340.4	HAW	Hawarden / Wales	GBR	16:57	13-12-98
340.0	340.4	KAI	Kajaani	FIN	16:30	07-12-96
340.0	340.4	N	Ronneby	SWE	23:45	20-12-96
341.0	340.6	LO	Billund	DEN	17:20	12-12-98
341.0	340.6	EDN	Edinburg	GBR	21:25	26-12-98
341.0	340.6	POR	Pori	FIN	18:30	12-12-98
342.0	341.6	SL	Goteborg	SWE	01:38	28-12-97
342.0	342.4	GG	Groningen/Eelde	NED	17:17	12-12-98
342.0	341.7	LL	Fagernes-Leirin	NOR	01:33	20-12-96
342.5	342.9	NWI	Norwich	GBR	17:15	12-12-98
343.0	343.4	KUS	Kaunas	LET	01:25	28-12-97
343.0	343.4	RDL	Redhill	GBR	13:20	14-12-98
343.0	343.4	YVL	Yeovil (Judwin Airport)	GBR	01:27	28-12-97
343.0	343.5	CGO	Paris / Charles de Gaulle	FRA	16:55	13-12-98
344.0	344.4	HEK	Heka / Helsinki Vantaa	FIN	16:53	13-12-98

344.0	344.5	CF	Podhorany	CZE	16:54	13-12-98
345.0	344.7	SUS	Susi Kauhava	FIN	18:50	27-12-96
345.0	345.4	BN	Birkeland-Kristiansund-Kjevik	NOR	01:05	29-03-97
345.0	344.6	LUT	Luton	GBR	17:15	12-12-98
346.0	345.6	LHO	Le Havre / Octeville	FRA	18:30	12-12-98
346.0	345.7	GS	Gavle-Sandviken Air force	SWE	01:10	28-12-97
346.0	345.7	MI	Mike India - Mikkeli	FIN	19:15	10-12-96
346.0	347.0	WLU	Luxemburg	LUX	18:37	12-12-98
346.5	345.5	BMN	Bremen	DUI	17:15	12-12-98
347.0	347.4	MTN	Manston / Kent	GBR	13:45	10-11-01
347.5	347.8	TD	Teesside	GBR	11:45	21-09-97
348.0	347.7	ATF	Aberdeen	GBR	01:42	10-01-98
348.0	347.7	WA	Stockholm	SWE	01:42	10-01-98
348.0	347.1	TPL	Topola	SRB	01:06	28-12-97
348.0	347.6	FOS	Fairoaks	GBR	18:40	12-12-98
348.0	347.6	SAD	Sandsund (Leknes)	NOR	01:40	10-01-98
348.5	349.5	LG	Liege (= Luik)	BEL	15:00	10-11-01
349.0	348.7	OYE	Paris / Orly	FRA	21:43	19-11-01
349.0	349.3	JX	Vaxjo	SWE	01:01	28-12-97
350.0	349.7	LAA	Laanila Oulu	FIN	21:42	19-11-01
350.5	350.1	ROT	Rotterdam - Zestienhoven	NED	18:10	11-11-01
350.5	350.3	HBR	Humberside (Ottringham)	GBR	01:24	10-12-96
351.0	350.6	OV	Visby	SWE	00:55	28-12-97
351.0	351.0	DSA	Dieppe St.Aubin	FRA	14:20	18-09-98
352.0	351.6	WOD	Woodly	GBR	19:49	11-11-01
352.0	351.7	ENS	Ennis - Shannon	IRE	23:02	09-12-96
352.0	351.7	NEW	Newcastle	GBR	18:00	18-01-98
352.5	351.5	DD	Oostende	BEL	15:00	10-11-01
353.0	353.0	INA	??	??	00:59	31-08-97
353.0	353.0	SB	Saint Brieuc	FRA	21:50	19-11-01
353.0	354.2	KRW	Krakow	POL	21:49	19-11-01
353.5	353.8	EME	East Midlands, Derby	GBR	00:50	28-12-97
354.0	353.1	PAD	Paderborn-Lippstadt	DUI	13:20	03-09-97
354.0	354.3	V	Ylivieska	FIN	00:45	28-12-97
355.0	355.4	J	Juliet - Varkaus	FIN	19:30	30-11-96
355.0	354.0	ONW	Deurne / Antwerpen	BEL	15:00	10-11-01
355.0	355.3	KUU	Kuusamo - Kantola	FIN	23:23	09-12-96
355.0	355.4	BTD	Bottna	SWE	23:09	27-12-97
355.4?	355.4	KN	??	??	00:45	10-11-97
356.0	355.6	WBA	Wolverhampton	GBR	19:50	11-11-01
356.0	355.7	PR	Prague (Praha)	CZE	23:32	09-12-96
356.0	355.6	RSY	Paris / Charles de Gaulle	FRA	23:00	27-12-97
357.0	356.6	KVR	Kavouri - Athinai	GRC	00:05	20-12-96
357.0	356.6	SEP	Seppi (Vaasa)	FIN	23:00	27-12-97
357.0	356.6	VZ	Eelde / Groningen	NED	18:15	11-11-01
357.0	357.6	MA	Leipzig - Halle	DUI	23:04	27-12-97
357.0	357.4	KD	Kolding	DEN	18:00	18-01-98
357.5	358.5	FAL	Falconara	ITA	23:43	09-12-96
358.0	357.7	RNN	Roanne (Renaion)	FRA	21:10	15-10-97
358.0	358.3	BRG	Braganca	POR	01:30	19-10-97
358.0	358.4	GRK	Grakallen	NOR	21 :55	19-11-01
358.0	358.5	LT	Le Touquet / Paris Plage	FRA	15:35	07-12-96
358.0	358.4	WC	L/2 Liset North Sea	??	18:49	12-12-98
358.0	359.0	HW	Hannover West (LOM)	DUI	21:00	08-09-96
358.0	357.2	SCV	Suceava	ROM	23:51	09-12-96
359.0	358.6	GK	??	??	19:15	30-11-96
359.0	358.6	LK	Lidkoping	SWE	17:07	26-12-98
359.0	359.0	LOR	Lorient	FRA	17:08	26-12-98

359.5	359.8	RVN	Ravenspurn North North Sea	??	19:15	26-04-97
359.5	359.5	CDN	Chateaudun	FRA	17:00	26-12-98
360.0	360.4	OS	Goteborg / Save	SWE	19:05	30-11-96
360.0	361.2	SR	Ensheim Saarbrucken (LOM)	DUI	19:22	19-11-01
360.5	359.5	MAK	Mackel (near Deinze/Machelen)	BEL	15:00	10-11-01
360.9	360.9	NB	Bordeaux	FRA	19:46	19-11-01
36?.	360.9	LA	??	??	00:26	03-01-97
361.0	361.4	LIE	Lieto - Turku	FIN	00:18	19-11-01
361.0	361.4	RO	??	??	00:20	19-11-01
361.0	361.4	GRB	Guernsey Aero	GBR	12:24	13-12-98
362.0	362.4	BVK	Baatvik	NOR	23:52	28-01-98
362.0	360.9	BZO	Bolzano Air Force	ITA	00:00	01-01-97
362.0	361.1	KBO	Koeln / Bonn	DUI	16:38	13-12-98
362.0	362.4	NN	Eskilstuna (A.F)	SWE	00:16	19-11-01
362.0	363.0	SLN	Berlin - schoenfeld	DUI	19:55	19-11-01
362.0	363.1	CJN	Castejon	SPA	19:22	19-11-01
362.5	362.1	SND	Southend (East-UK)	GBR	17:00	10-11-01
363.0	361.8	SCF	Schweinfurt AHP	DUI	22:55	30-11-96
363.0	363.3	OE	Kristianstad - Everod	SWE	22:41	09-12-96
363.0	361.8	OTA	Ostrava	CZE	23:00	30-11-96
363.0	363.0	PI	Poitiers - Biard	FRA	19:55	19-11-01
363.5	363.2	CT	Coventry	GBR	17:00	10-11-01
363.5	364.5	BRD	Brindisi - Casale (Air Force)	ITA	00:05	19-11-01
364.0	363.6	RSO	Paris / Charles de Gaulle	FRA	17:01	10-11-01
365.0	364.6	GY	London Gatwick	GBR	20:00	11-11-01
365.0	365.7	VIL	Vilnius LOM (harm. on 367.2?)	LET	01:30	29-03-97
365.0	364.7	WS	Soderhamn	SWE	19:57	09-12-96
365.0	364.7	KIM	Humberside (Ottringham)	GBR	16:24	13-12-98
365.0	366.0	LJ	Cologne (=Koeln) -Bonn	DUI	16:49	26-12-98
365.5	364.5	BC	Brasschaat (9th harm: 374.6)	BEL	15:00	10-11-01
366.0	366.4	SF	Falkoping	SWE	22:45	04-10-96
366.0	366.4	KM	Kalmar	SWE	08:43	24-12-96
366.0	366.4	MB	Maribo Lolland - Falster	DEN	14:40	07-12-96
366.0	366.3	UTH	Uthaug - Orland	NOR	00:47	01-01-97
366.?	366.3	GX	??	??	13:20	09-12-96
366.5	366.3	CAR	Carnane - Isle of Man	GBR	13:30	09-12-96
366.5	366.2	BER	Bern - BELP	SUI	00:44	01-01-97
367.0	367.0	3W	Zapata - Scotian - North Sea	??	17:35	26-04-97
367.5	367.9	OX	Oxford	GBR	21:57	19-11-01
368.0	368.3	RK	Roskilde	DEN	14:00	14-12-97
368.0	367.0	BYC	Buckeburg	DUI	14:15	07-12-96
368.0	369.3	BNO	Brno (Turany)	CZE	22:07	19-11-01
368.0	367.6	FN	Finndal (Skien/Geiteryggen)	NOR	23:10	04-10-96
368.0	367.6	OY	Sveg	SWE	16:43	29-12-96
368.0	367.6	PAK	Pakka (near Helsinki)	FIN	16:20	13-12-98
368.5	368.8	WHI	Whitegate Hawarden	GBR	22:05	19-11-01
368.5	369.5	ELU	Luxemburg	LUX	22:09	19-11-01
369.0	368.6	RCH	Rochester	GBR	16:13	13-12-98
369.0	368.6	PS	Rotterdam (Heenvliet-Spyk.-W)	NED	22:07	19-11-01
369.0	369.4	RFB	Rough - Britisch Gas North Sea		22:13	19-11-01
369.0	370.2	VRS	Vrsar	CRO	23:08	20-01-98
370.0	370.4	OHT	Stockholm / Arlanda	SWE	00:44	24-12-96
370.0	370.4	CGZ	Charles de Gaulle, Paris	FRA	22:18	19-11-01
370.5	370.2	LB	Angelholm	SWE	22:16	19-11-01
370.5	370.2	AP	Aberporth - Wales	GBR	21:44	20-01-98
37?.	370.8	CS	?? Tx in error - crackling	??	11:42	21-12-96
371.0	371.4	HAA	Hamar - Stafsberg	NOR	22:19	19-11-01
371.0	372.0	OKT	Kortrijk - Wevelgem	BEL	22:23	19-11-01

371.5	371.3	NH	Norwich	GBR	22:22	19-11-01
372.0	371.6	OZN	Ikerasusuaq Pr.ChristiansSund	GRE	01:03	01-01-97
372.0	371.6	ODR	Odderoy Kristiansand - Kjevik	NOR	22:23	19-11-01
372.0	372.4	BV	Brough	GBR	22:25	19-11-01
373.0	373.4	NW	Maastricht - Beek	NED	22:25	19-11-01
373.0	372.6	KEM	Kemi - Tornio	FIN	22:26	19-11-01
373.0	373.0	MP	Cherbourg	FRA	22:36	19-11-01
373.0	373.0	SDI	St. Dizier in phase with MP	FRA	22:47	19-11-01
373.0	374.2	LPD	Lampedusa	ITA	23:06	19-11-01
374.0	372.8	KFT	Klagenfurt	DUI	22:28	19-11-01
374.0	373.6	RNR	Radnor (Wales)	GBR	16:00	13-12-98
374.0	374.4	TU	Tirstrup - Aarhus	DEN	14:48	14-12-96
374.0	374.4	CPR	Clipper - North Sea	??	14:00	31-08-97
374.5	375.5	ANC	Ancona - Falconara	ITA	00:26	09-05-97
374.5	375.5	SOG	Solling	DUI	22:55	19-11-01
374.0	374.4	SA	Sable Island - Nova Scotia	CAN	02:10	25-12-97
375.0	375.4	KD	Kristianstad (Everod)	SWE	23:07	19-11-01
375.0	375.4	RB	Orebro	SWE	02:00	25-12-97
375.0	374.0	OO	Oostende	BEL	15:02	10-11-01
375.0	375.4	TR	Tor - Ekofisk Oilplatform	NOR	02:00	25-12-97
375.0	375.8	TRZ	Trzebnica (Trebni) Wroclaw	POL	23:30	25-12-97
375.0	376.0	VM	Vestmannaeyjar	ICE	00:53	03-01-97
376.0	376.4	WP	Schiphol (West-Pier)	NED	23:11	19-11-01
376.0	375.6	IEP	??	??	15:55	13-12-98
376.0	376.4	LN	Hultsfred (airforce)	SWE	23:19	24-12-96
376.0	375.6	HP	Esbjerg	DEN	23:11	19-11-01
376.0	376.4	MW	Middle Wallop	GBR	18:30	27-04-97
376.5	377.5	ORI	Bergamo - Orio al Serio	ITA	02:00	25-12-97
377.0	377.4	PA	??	??	21:31	15-12-98
377.0	378.0	MGB	Monchengladbach	DUI	15:44	13-12-98
377.0	376.6	KN	Norrkoping / Kungsangen	SWE	02:00	25-12-97
378.0	378.4	OS	Sundsvall Harnosand	SWE	23:17	19-11-01
378.0	377.6	KLY	Killiney,Casement (Baldonnel)	IRE	23:17	19-11-01
378.0	378.4	RSY	Rennesoy (Stavanger / Sola)	NOR	19:45	15-12-96
378.5	378.9	NN	Northampton (Sywell)	GBR	15:46	13-12-98
379.0	378.6	REK	Reksten	NOR	23:21	19-11-01
379.0	379.0	CZ	Charleville / Mezieres	FRA	21:05	11-11-01
380.0	379.6	LF	Ronneby	SWE	21:02	11-11-01
380.0	380.4	FLR	Trondheim	NOR	01:04	30-12-97
380.0	380.4	WFD	Woodford	GBR	11:39	21-12-97
380.0	380.4	BRI	Bristol	GBR	23:22	19-11-01
381.0	381.4	ESP	Espoo (Helsinki - Vantaa)	FIN	23:25	19-11-01
381.0	380.6	RG	Raufarhofn Lth. Iceland!	ICE	01:00	22-04-97
381.0	381.4	AB	Akraberg Lth.Sydero FaroerIs.	FAR	23:24	19-11-01
381.0	382.0	SIB	Sibiu	ROM	01:30	21-12-97
382.0	383.4	VLM	Vlasim	CZE	00:52	30-12-96
382.0	383.0	SBG	Salzburg	AUS	23:25	19-12-96
382.0	382.0	PM	Peronne - St.Quentin	FRA	11:35	21-12-97
382.0	381.6	SLP	Sleap	GBR	14:51	26-12-98
383.0	382.6	SHD	Scotstownhead	GBR	00:28	07-12-96
383.0	383.4	ALD	Alderney	GBR	13:27	19-11-01
383.0	383.4	ERK	Erken	SWE	00:52	30-12-96
383.0	382.6	LST	Lista - Farsund (airforce)	NOR	21:25	23-09-96
383.5	383.9	GUL	Gull (=Gulpen)	NED	21:07	11-11-01
384.0	384.4	HNS	Hoynes (Sandane - Anda)	NOR	21:06	11-12-96
384.0	384.4	TY	Torsby (Fryklanda)	SWE	00:44	30-12-96
385.0	385.0	WL	Barrow,Walney Isl. (Rx=384.8)	GBR	00:35	30-12-96
385.0	385.0	OAN	Orléans (Bricy)	FRA	23:35	19-11-01

385.0	384.6	KV	Kilo Victor - Halli	FIN	00:32	30-12-96
385.5	384.5	KIL	Kiel (Holtenau)	DUI	00:46	30-12-96
386.0	385.6	STD	Stad aan het Haringvliet	NED	21:09	11-11-01
386.0	386.4	BZ	Brize Norton Royal AF	GBR	15:22	13-12-98
386.5	387.5	SLV	Spa (La Sauveniere)	BEL	21:10	11-11-01
387.0	386.6	JL	Juliet Lima/ Vehkaa-Kuopio AF	FIN	01:50	26-04-97
387.0	387.0	ING	St.Inglevert (near Calais)	FRA	21:11	11-11-01
387.0	387.4	CML	Clonmel - Cork	IRE	01:26	21-12-97
387.0	387.5	AV	Aviles - Asturias	SPA	00:40	07-12-96
388.0	387.6	COR	Corner	SWE	01:22	21-12-97
388.0	387.6	KRU	Kruunu (=Kruunupyy)	FIN	00:50	15-02-98
388.5	388.1	CH	Schiphol (near Buitenkaag)	NED	21:12	11-11-01
388.5	388.1	CDF	Cardiff (Wales)	GBR	12:29	13-12-98
389.0	388.1	CP	Caparica - Lisboa	POR	21:20	11-11-01
389.0	389.4	RK	Romeo Kilo - Turku	FIN	01:18	21-12-97
389.0	389.4	MR	Myra (Skien / Geiteryggen)	NOR	00:04	30-12-96
389.0	389.4	HY	Skive	DEN	01:17	21-12-97
389.0	388.0	CC	Charleroi (Brussels South)	BEL	15:19	13-12-98
389.0?	389.2	JEV	Jever (near Wilhelmshaven)	DUI	12:20	25-12-97
390.0	390.4	LV	Arvika	SWE	01:14	21-12-97
390.0	392.2	GL	Ergli	EST	23:43	29-12-96
390.5	390.5	ITR	Istres / Le Tube	FRA	00:12	11-12-96
391.0	390.6	TGE	Teuge beacon, Apeldoorn East	NED	21:25	11-11-01
391.0	392.3	OKR	Stefanik - North Bratislava	SLO	23:35	29-12-96
391.0	391.0	BV	Beauvais - Tille	FRA	21:29	11-11-01
391.3	392.3	OCh	?? /---/----/ or /.../.../ SH	?	23:40	29-12-96
391.5	391.8	BOU	Bourn	GBR	14:52	13-12-98
391.5	391.8	EAS	Southampton	GBR	14:52	13-12-98
392.0	391.6	RAN	Ranta - Lappeenranta	FIN	21:40	11-12-96
392.0	391.6	GDY	Godby - Mariehamn Aland Isl.	FIN	21:33	11-11-01
392.0	392.4	RW	Tegel-West / Berlin (Fr. AF)	DUI	14:50	13-12-98
392.0	392.0	VUN	Verdun - Le Rozelier	FRA	14:34	26-12-98
393.0	393.4	TAT	Tautra Molde / Aro	NOR	00:05	11-12-96
393.0	393.4	EMW	East Midlands, Derby	GBR	14:47	13-12-98
394.0	394.4	JOK	Kauhajoki	FIN	21:55	04-12-96
394.0	393.6	NB	Stockholm / Bromma	SWE	22:07	11-12-96
395.0	394.7	FOY	Foyness (Shannon)	IRE	01:07	21-12-97
395.0	395.4	GE	Billund	DEN	14:45	13-12-98
395.0	395.4	OA	Schiphol (Wormer)	NED	21:56	11-11-01
395.0	395.9	SH	??	??	00:45	22-04-97
396.0	395.6	YG	Rygge / Enge (Moss)	NOR	01:03	21-12-97
396.0	395.6	HYV	Hyvinkaa Helsinki	FIN	21:54	11-11-01
396.5	396.9	PY	Plymouth	GBR	22:03	11-11-01
397.0	396.6	EHN	Eindhoven	NED	21:59	11-11-01
397.0	397.4	LYX	Lydd	GBR	22:00	11-11-01
398.0	397.6	PEO	Peola - Stockholm Skavsta	SWE	22:07	11-11-01
398.0	399.2	NIT	Nitra	SLO	22:50	23-04-97
399.0	398.7	NGY	New Galloway-Prestwick-Scotl.	GBR	00:32	22-04-97
399.0	398.7	FM	Trolhattan - Vanersborg	SWE	00:33	22-04-97
399.5	398.5	ONO	Oostende Haven	BEL	15:02	10-11-01
400.0	399.7	NTD	Notodden	NOR	22:55	23-04-97
400.0	399.7	KO	Kilo Oscar / Kaipi - Utti	FIN	22:36	11-11-01
400.0	399.7	EN	Orebro	SWE	23:00	23-04-97
400.0	399.7	FC	Svir	BLR	23:35	23-04-97
400.5	400.9	EJ	Esbjerg	DEN	14:26	26-12-98
400.5	401.6	COD	Codogno	ITA	02:04	08-12-96
401.0	400.0	MEG	Mengen (Stuttgart??)	DUI	00:24	24-04-97
401.0	400.0	BPL	Bari / Palese Macchie	ITA	00:20	23-04-97

401.0	401.3	JP	Joensuu	FIN	22:30	11-11-01
401.0	401.4	FNL	Fenland	GBR	22:27	11-11-01
401.5	402.5	BET	Rheine / Bentlage Ger. Army	DUI	22:35	11-11-01
402.0	400.9	RA	Strunkovice cancelled???	CZE	19:29	12-12-96
402.0	401.0	OP	Brussel Nationaal	BEL	15:02	10-11-01
402.0	402.5	ORW	Paris (Orly)	FRA	22:31	11-11-01
402.0	402.5	LX	Eskilstuna A.F.	SWE	02:00	08-12-96
402.5	402.8	LBA	Leeds & Bradford	GBR	22:38	11-11-01
404.0	403.0	LW	Luxemburg	LUX	22:38	11-11-01
404.0	404.0	MRV	Merville-Calonne	FRA	22:39	11-11-01
404.0	403.7	DA	Dalen (Torp)	NOR	23:20	23-04-97
404.0	403.7	VNG	Vangsnes	NOR	23:22	23-04-97
404.0	403.7	NL	Nolso (Vagar) Faroer Isl.	FAR	19:36	09-12-96
404.5	404.9	RR	Rotterdam (near Haastrecht)	NED	22:39	11-11-01
405.0	405.4	AV	G"oteborg / S"ave	SWE	19:35	12-12-96
406.0	406.0	LMX	Les Mureaux	FRA	14:06	26-12-98
406.0	406.3	BHX	Birmingham	GBR	14:23	13-12-98
406.0	407.9	MO	Mohyliv-Podilskyl 2nd hrm mod	UKR	00:23	13-12-96
406.5	405.5	BOT	Bottrop-Dusseldorf Rheinberg	DUI	22:41	11-11-01
407.0	405.8	LUP	Laupheim	DUI	21:05	24-10-96
407.0	406.6	BG	Berga	SWE	19:45	09-12-96
407.0	407.2	GAR	Garristown	IRL	14:50	25-12-97
407.0	407.9	N	Praha - Ruzyne	CZE	00:23	13-12-96
407.0	408.1	PNG	(ex: PN) Palanga Int.	LIT	14:08	21-12-96
408.0	409.1	BRK	Bruck (Wien / Schwechat)	AUS	00:30	13-12-96
408.0	408.0	AU	??Tx in error (500Hz f-shift)	??	15:20	27-04-97
409.0	409.4	SG	Satenas	SWE	01:56	22-12-97
409.0	410.0	DAR	Darlowo	POL	01:45	22-07-96
409.0	410.2	CZE	Czempin (Lavica)	POL	23:45	23-04-97
410.0	410.0	ETN	Etain - Rouvres	FRA	14:20	13-12-98
410.0	411.0	RF	Erfurt	DUI	22:50	24-10-96
410.0	410.4	BO	Boden Lulea / Kallax	SWE	01:54	22-12-96
411.0	410.6	M	Kokkola-Pietarsaari-Kruunupyy	FIN	22:45	11-11-01
41?.?	411.1	PP	?? error logging ??	??	22:50	24-10-96
412.0	411.0	WAO	Warzaw	POL	23:30	06-11-01
412.0	412.0	SE	Strasbourg	FRA	14:19	13-12-98
412.0	412.4	I	Halli	FIN	01:48	22-12-97
413.0	412.0	KTI	Kuhtai(2nd harm heard on415.2)	AUS	22:42	11-11-01
413.0	414.0	NTM	Nattenheim (sounds like KMT?)	DUI	14:11	27-04-97
413.5	412.5	GLT	Galati	ROM	00:45	13-12-96
413.5	412.5	DLS	Lubars - Berlin (US A.F.)	DUI	22:43	11-11-01
414.0	413.2	NDR	Nador Taouima Morocco!!	MOR	23:45	22-04-97
414.0	414.4	HD	Hestad / Sandnessjon (Stokka)	NOR	22:47	11-11-01
414.0	413.6	SLB	Solberg Oslo (Gardermon)	NOR	22:47	11-11-01
414.5	413.5	RUS	Russe (list freq. = 415.0)	BUL	01:50	22-07-96
415.0	415.0	TOE	Toulouse / Blagnac	FRA	01:10	23-07-96
415.0	415.4	OL	Linkoping - Saab (LOM)	SWE	23:42	22-04-97
416.0	415.6	BCS	Bacchus	SWE	23:10	19-03-97
416.0	416.4	TOR	Toramo - Rovaniemi	FIN	20:10	01-12-96
416.0	416.4	R	Arvika (list freq. = 416.5)	SWE	23:10	19-03-97
416.0	416.4	WZ	Newcastle	GBR	13:57	26-12-98
416.0	415.0	POZ	Pozarevac - Belgrade	SRB	01:40	22-12-97
417.0	416.0	LI	Dusseldorf (LOM)	DUI	14:11	13-12-98
417.0	416.6	AH	Angelholm	SWE	14:13	13-12-98
417.0	417.4	ND	Great Yarmouth	GBR	14:14	13-12-98
418.0	417.7	L	Tallin	EST	20:45	01-12-96
418.0	418.0	MK	Calais - Marck	FRA	22:57	11-11-01
418.0	417.6	GRE	Grebbestad	SWE	15:20	25-12-97

418.0	419.2	ORA	Oradea	ROM	20:22	01-12-96
419.0	418.6	HY	Hotel Yankee - Vaasa	FIN	20:49	01-12-96
419.0	419.4	RD	Vasteras / Hasslo - Aros	SWE	20:18	01-12-96
419.0	419.4	RA	Tyra_A North Sea	??	14:08	13-12-98
419.0	419.4	LSO	Lee-on-Solent	GBR	15:30	25-12-97
420.0	419.0	INN	Innsbruck	AUS	23:40	22-04-97
420.0	420.8	BAZ	Bayreuth	DUI	22:54	11-11-01
420.0	419.6	SS	Sturup - Malmo (LOM)	SWE	23:00	11-11-01
420.0	420.4	KN	Kobona	RUS	23:05	31-01-97
420.0	420.0	ZV	Tuzla Bosnia-Herzegovina	BOS	00:59	13-12-96
420.0	420.4	LGS	Loggs North Sea	??	14:00	13-12-98
421.0	420.6	MF	Halmstad	SWE	14:04	13-12-98
421.0	420.6	BUR	Burnham	GBR	22:55	11-11-01
421.0	420.6	HS	Halmstad	SWE	00:40	08-02-98
421.0	422.0	GE	Getafe - Madrid	SPA	22:10	12-11-01
422.0	423.0	UR	Jaromer (still OK??)	CZE	23:35	24-10-96
423.0	424.1	SCA	Salamanca	SPA	00:55	10-05-97
423.0	423.4	CWL	Cranwell	GBR	22:17	12-11-01
423.0	423.0	AOW	??	??	13:40	26-12-98
423.0	423.9	ZO	Nis	SRB	22:40	31-01-97
423.0	423.4	FE	Beldringe - Odense	DEN	22:21	12-11-01
424.0	423.5	STI	Markham Oilplatform	??	19:00	17-08-95
424.0	423.6	HRW	Heathrow - London	GBR	22:16	12-11-01
424.0	424.8	PIS	Pisarovina (near Zagreb)	CRO	22:18	12-11-01
424.0	423.6	OKF	Desna	CZE	00:17	24-12-98
425.0	424.7	OU	Umea	SWE	00:30	24-12-96
425.0	425.4	ORU	Orust	SWE	00:15	19-03-97
425.0	426.0	ERT	Erfurt	DUI	00:55	10-05-97
426.0	425.6	SH	Shobdon	GBR	16:25	10-11-01
426.0	427.0	GBG	Gleichenberg	AUS	00:37	20-11-01
426.0	426.4	IW	Bembridge	GBR	22:26	12-11-01
426.0	426.0	VLI	Vlissingen	NED	00:01	01-04-93
426.0	426.7	BC	Bacau	ROM	00:30	11-05-97
426.0	426.4	HWQ	Hewett North Sea	??	22:25	12-11-01
426.0	426.4	PW	Prestwick	GBR	21:20	23-12-96
426.0	427.0	WYP	??	??	13:33	12-01-00
426.5	425.5	MIQ	Mike - Ingolstadt	DUI	00:35	20-11-01
427.0	427.4	LUE	Lunde - Kramfors	SWE	00:00	19-03-97
427.0	427.4	UN	Kurgan	RUS	23:55	27-01-97
428.0	426.9	CTX	Chateauroux	FRA	00:30	08-02-98
428.0	428.0	BST	Lanveoc, Poulmic	FRA	22:36	12-11-01
428.0	428.5	MCH	Manchester	GBR	00:22	08-02-98
428.0	429.2	MNF	Moron - Seville	SPA	00:30	08-02-98
429.0	428.7	LU	??	??	00:50	24-10-96
429.0	428.0	GBL	Giebelstadt (US A.F.)	DUI	23:45	18-03-97
429.0	428.6	SSD	(ex: TST) Stansted - London	GBR	00:34	20-11-01
429.0	428.6	TGM	Tirgu - Mures	ROM	00:33	20-11-01
429.0	428.6	D	David - Bratislava	SLO	00:33	20-11-01
430.0	430.4	NOT	Nottingham (East-Midlands)	GBR	16:13	10-11-01
431.0	430.0	ONT	Kleine Brogel	BEL	15:04	10-11-01
431.0	431.5	PSL	Pickerill North Sea	??	15:30	18-09-98
431.0	431.4	SAY	Stornaway - Scotland	GBR	00:29	20-11-01
432.0	431.3	PL	Palanga Lithuania	LIT	19:40	24-10-96
432.0	432.4	AKU	Akujarvi-Kaunis (Ivalo LOM)	FIN	21:08	01-12-96
432.0	432.9	PK	Pardubice	CZE	00:28	20-11-01
433.0	432.0	CRE	Cres	CRO	00:31	20-11-01
433.0	434.0	JRZ	Jerez	SPA	22:48	12-11-01
433.5	433.0	HEN	Henton	GBR	16:11	10-11-01

434.0	433.2	A	Bucharest Baneasa	ROM	00:35	25-12-96
434.0	434.4	THN	Thorn	NED	00:26	20-11-01
434.0	435.0	SK	Leipzig	DUI	00:25	20-11-01
434.0	434.5	MV	Melun (Villaroche)	FRA	12:16	26-12-98
434.4	434.4	JL	?? Yalta ??	??	19:43	25-10-96
434.0	434.4	GR	Gorka	RUS	00:27	20-11-01
435.0	434.4	SM	Semenivka	UKR	01:30	22-12-97
435.0	436.0	ZBN	Zweibrucken	DUI	00:21	20-11-01
436.0	436.0	BR	??	??	00:21	20-11-01
436.0	436.0	TEST	??	??	00:40	10-05-97
436.0	436.0	GHT	??	??	00:30	29-05-97
436.0	436.0	FRA	Sarajevo Bosnia-Herzegowina	BOS	00:40	10-05-97
438.0	437.0	B	Barka - Bratislava	SLO	00:19	20-11-01
438.0	439.0	OKL	Prague (Praha)	CZE	22:35	31-12-97
438.0	439.0	PE	Poprad - Tatry East	SLO	00:18	20-11-01
440.0	439.0	OR	Rzeszow	POL	22:59	12-11-01
440.0	441.0	DRE	Drezdenko	POL	00:16	20-11-01
440.0	441.1	TRG	Targoviste	BUL	02:09	13-12-98
440.0	441.0	PIA	Piacenza	ITA	02:05	13-12-98
442.0	442.0	CK	Prerov	CZE	19:32	23-12-96
444.6	444.6	RJ	Gyzylarbat	TKM	00:30	26-10-96
445.0	446.0	TU	Tuzla	BOS	00:14	20-11-01
445.0	446.0	ZG	Szeged	HON	00:15	20-11-01
448.0	447.0	HLV	Holesov	CZE	21:20	01-12-96
448.0	447.0	LQ	Landsberg / Lech	DUI	00:40	10-05-97
448.0	448.0	??	/...-./...-.../ negative HLV	??	00:07	20-11-01
449.0	450.0	OKX	Frydlandt	CZE	22:30	31-12-97
449.0	449.0	EETITS	reverse morse carr. OKX	CZE	16:40	25-12-97
450.0	450.9	PDV	Plovdiv	BUL	02:00	13-12-98
452.0	451.0	ANS	Ansbach Army Heliport	DUI	23:09	12-11-01
452.0	453.0	GP	Grodno	BLR	00:24	25-10-96
453.0	453.0	IAE	reverse morse on carrier CN	CZE	00:30	10-05-97
453.0	454.0	CN	Piestany	CZE	01:57	13-12-98
454.6	455.3	ChJ	(NOT CHJ)/----/.---/	??	00:05	28-03-97
457.0	457.0	MK	??	??	00:50	26-09-96
458.0	457.0	LP	??	??	20:20	19-09-96
458.0	459.0	WN	Machulishchi	BLR	19:45	05-10-96
458.0	458.0	UAUE	reverse morse on carrier WN	??	19:45	05-10-96
460.0	461.0	GB	Volchanka	RUS	01:00	07-10-96
462.0	462.0	MK	??	??	22:20	17-01-97
468.0	467.0	FTZ	Fritzlar (army)	DUI	23:51	19-11-01
468.0	469.0	VTN	Kraljevo	SRB	23:50	19-11-01
470.0	471.0	UZ	??	??	23:47	19-11-01
470.0	470.0	PRD	Peyrehorade	FRA	21:15	14-11-96
471.0	471.0	EFE	??	??	19:05	25-11-96
472.0	472.0	LW	??	??	19:00	25-11-96
473.0	472.0	LD	Kishinau (duo with RG)	MOL	01:45	13-12-98
473.0	473.4	RG	Kishinau (duo with LD)	MOL	00:10	26-10-96
473.0	472.0	FHA	Friedrichshafen - Bodensee	DUI	23:55	19-11-01
474.0	475.0	RZ	Rzeszow /Jasionka (former RZE)	POL	23:13	12-11-01
474.5	475.2	SC	??	??	00:20	17-05-97
474.0	474.7	IB	Tallinn	EST	01:45	13-12-98
477.0	476.3	RP	Pernek	CZE	01:40	13-12-97
477.2	477.2	ERE	??	??	21:35	01-12-96
477.0	477.0	AG	??	??	00:40	07-05-97
478.0	479.0	GA	??	??	22:20	08-09-97
480.0	481.0	VIB	Viterbo	ITA	00:23	14-11-01
481.0	481.0	AJ	??	??	21:12	16-09-96

481.3	481.3	NTE	??	??	01:00	14-03-97
482.0	481.0	CP	Papa ??	HON	02:55	13-10-96
482.0	482.0	LOU	Metz	FRA	01:37	13-12-98
482.0	481.0	SWH	Schwabisch Hall (AAF)	DUI	23:17	12-11-01
484.0	484.0	UF	??	??	18:50	05-10-96
484.0	483.0	HOF	Hof	DUI	01:30	13-12-98
485.1	484.1	IA	Turany	CZE	23:43	19-11-01
486.0	485.0	KL	Krasny Sulin (2nd har. 484)	RUS	01:35	28-09-96
486.0	487.0	FX	Sliac	SLO	18:58	23-12-96
488.1	487.1	ILM	Illesheim (US-army)	DUI	23:21	12-11-01
489.0	487.9	SIL	Siegerland	DUI	01:07	26-12-96
489.0	490.0	CM	??	??	21:30	06-04-00
489.6	488.5	JEL	Jelsava	SLO	00:20	14-09-96
489.6	489.6	SGI	reverse morse code carr. JEL	SLO	00:10	09-10-96
490.0	491.0	KO	Koshany	UKR	00:28	14-11-01
490.0	491.0	DVI	Donauschingen Villingen	DUI	23:55	18-11-01
490.0	489.0	WAK	Vakarel	BUL	23:55	18-11-01
492.0	493.0	TBV	Moravska - Trebova	CZE	23:55	18-11-01
493.0	492.3	RW	Maryino	RUS	23:52	25-10-96
493.0	492.0	KR	Krasnodar Pashkoysky	RUS	00:20	06-04-97
493.0	492.6	CP	Papa	HON	19:00	10-10-96
493.0	493.4	PC	Papa	HON	20:46	19-09-96
494.0	493.0	KN	??	??	18:55	13-11-01
495.0	495.0	DRT	??	??	01:20	25-12-98
495.0	496.0	PA	??	??	17:22	17-11-01
500.0	501.0	MCR	??	??	00:48	20-01-97
507.0	506.0	ND	Bolshevik	RUS	23:30	13-09-96
508.0	507.0	Z	Hlinik - Zilina	SLO	00:37	14-11-01
508.0	507.0	G	Gomel Belarussia	BLR	21:30	06-09-97
512.2	511.2	KT	Kostanay	KAZ	01:45	21-09-97
512.?	512.4	NA	??	??	00:55	03-08-99
512.0	512.0	EG	??	??	21:00	26-09-96
512.7	512.7	IRFEE	reverse morse code CLJ	ROM	00:22	11-05-97
512.9	513.9	CLJ	Cluj - Napoca	ROM	23:30	23-12-98

(CLJ has many modulation harmonics, normal mod's: 513.9+511.9
extra mod's are:506.9 507.9 508.9 509.9 510.9-514.9 515.9 516.9)
IRFEE is reverse (negative) modulation carrier CLJ via narrow 250Hz
filter

514.5	513.5	XU	Namest (also mod. harmonics)	CZE	00:50	20-02-99
517.0	518.0	JBR	Jaszbereny	HON	20:50	15-11-01

ARD and JBR are a hindrance for Navtex DX on 518.0

Alternative frequency use:

510.5	unknown data traffic	always
511.5	morse traffic in Italian	14-11-01
512.5	morse traffic in Italian	11-11-01
514.5	morse traffic in Italian	11-11-01
518.0	Navtex data	xx:xx
520.0	unknown data	11-11-01
521.5	unknown data	11-11-01

517.3	518.3	ARD	Arad	ROM	23:15	11-11-01
518.0	517.2	TM	Tomakivka	UKR	23:38	25-10-96

518.0	519.0	(E)A?? only A = Bacau	ROM	21:30	26-03-97
519.0	519.0	BS ??	??	00:40	20-01-97
524.0	523.0	WS Vitebsk / Umii Belarussia	BLR	18:45	10-10-96
524.0	523.0	UU Vitebsk / Umii duo with WS	BLR	02:15	27-10-96
525.0	526.0	CH Cheniakhiv	UKR	01:05	25-12-98
525.0	526.0	HG Wroclaw-Strachowice	POL	23:12	11-11-01
534.0	533.0	NR Ostrava-Nora duo with RN	CZE	00:43	31-03-97
534.0	533.0	RN Ostrava-Rona duo with NR	CZE	00:17	08-04-97
545.0	545.4	LIC Lichfield	GBR	16:10	11-11-01
588.0	589.0	P Katowice	POL	23:00	08-04-97
590.0	591.0	OL Szczecin	POL	00:50	29-03-99
615.0	615.4	OM Gorm North Sea	??	00:35	03-09-97
625.0	624.0	NL Osipovich	BLR	00:50	03-09-97
840.0	839.0	KR Kaliningrad	LIT	00:05	12-09-97

(some of the above beacons are in the MW-broadcasting band!!)

Last update 11-2001 by W. Geeraert - PE1ABR

Some explanation about the used country codes

short code	English country name	Dutch country name
ALB	Albania	Albanie
AUS	Austria	Oostenrijk
BEL	Belgium	Belgie
BLR	Belarussia	Belarus
BOS	Bosnia&Herzegovina	Bosnie en Herzegovina
BUL	Bulgaria	Bulgarije
CAN	Canada	Canada
CRO	Croatia	Kroatie
CZE	Czech Republic	Tsjechie
DEN	Denmark	Denemarken
DUI	Germany	Duitsland
EST	Estonia	Estland
FAR	Faroe Islands (Foroyar= sheep island)	Far oer schaap eiland)
FIN	Finland	Finland
FRA	France	Frankrijk
GBR	Great Brittain/UK	Groot Brittannie
GRE	Greenland	Groenland
GRC	Greece	Griekenland
HON	Hungary	Hongarije
ICE	Iceland	IJsland
IRL	Ireland	Ierland
ISR	Israel	Israel
ITA	Italy	Italie
KAZ	Kazachstan	Kazakstan
LET	Latvia	Letland
LIT	Lithuania	Litouwen
LUX	Luxembourg	Luxemburg
MOL	Moldova	Moldavie
MOR	Morocco	Marokko
NED	Netherlands	Nederland
NIG	Niger	Niger
NOR	Norway (Norge)	Noorwegen
OMA	Oman	Oman
POL	Poland	Polen
POR	Portugal	Portugal
ROM	Roumania	Roemenie
RUS	Russia	Rusland
SLO	Slovak Republic	Slowakije
SLV	Slovenia	Slovenie
SPA	Spain	Spanje
SRB	Serbia	Servie (ex Yougo)
SUI	Switzerland	Zwitserland
SWE	Sweden	Zweden
TKM	Turkmenistan	Turkmenistan
TUR	Turkey	Turkije
UKR	Ukraine	Ukraine
USA	United States of A.	Verenigde Staten van A.

Cancelled for ever, but once heard/logged and not forgotten.....

Carrier freq.	Mod. f's heard on	Call	Name	Cty Code	Last logged on hh:mm DD-MM-YY	
257.0	257.0	FRQ	Plonais - Bretagne	FRA	??	< 93
283.5	284.5	BUS	Bressy	BEL	18:00	05-01-97
285.0	285.0	NO	Cabo de la Nao Lt.H.	SPA	23:45	27-07-96
285.0	285.0	NP	Nieuwpoort	BEL	12:00	13-12-98
286.0	286.0	TR	Tuskar Rock Lt.H.	IRE	01:37	25-12-98
287.3	287.3	NR	Noord-Hinder	NED	??	< 93
288.0	288.0	HH	Hoek van Holland	NED	18:00	03-07-96
288.5	288.5	YM	Ymuiden Front (last time??)	NED	22:30	15-12-98
289.0	289.0	ZB	Zeebrugge Northern Westdam	BEL	12:00	13-12-98
289.5	289.5	LO	Landsort South Lt.H. Oja	SWE	23:31	13-12-96
289.5	289.5	MN	Hammerodde Lt.H. Bornholm	DEN	00:30	27-12-97
290.5	290.5	LL	Hallo Lt.H.	SWE	21:30	26-10-96
294.0	294.0	PH	Cape d'Alprech Lt.H.	FRA	19:24	13-12-98
294.2	293.2	ER	Eierland Lt.H. Texel ??	NED	??:??	??-??-93
294.5	294.5	UK	Sunk Lt.H.	GBR	00:00	28-07-96
295.5	295.5	CB	La Courbiere	GBR	19:20	13-12-98
296.0	296.0	GR	Goeree Lt.H.	NED	??	< 93
296.5	296.5	ZB	Zeebrugge	BEL	??	< 93
297.0	297.0	FG	Pointe de Barfleur	FRA	15:30	07-09-97
298.5	298.5	RR	Round Island Lt.H.	GBR	19:37	13-12-98
299.0	299.5	AD	Ameland	NED	17:07	22-12-98
301.0	301.0	ER	Eierland Lt.H. Texel ??	NED	17:58	13-12-98
301.0	301.0	CA	Pointe de Creach Ile Quessant	FRA	14:36	25-12-98
301.1	301.1	NF	North Foreland	GBR	??:??	??-??-93
302.0	302.0	RB	Cherbourg	FRA	17:55	13-12-98
303.0	303.0	FV	Falsterborev Lt.H.	SWE	00:20	28-07-96
303.5	303.5	VL	Vlieland	NED	14:10	27-12-96
303.5	303.5	GR	Gedser Lt.H.	DEN	11:40	26-12-97
304.5	304.5	PS	Point of Lynas Lt.H.	GBR	17:50	13-12-98
305.5	305.5	AL	Pointe d'Ailly	FRA	23:45	28-09-96
308.5	308.5	NZ	Pointe de St.Gildas -Nazaire	FRA	00:40	22-09-96
309.5	309.5	WE	Wangerooge Lt.H.	DUI	19:07	13-12-98
310.4	310.4	PH	Cape d'Alprech Lt.H.	FRA	??:??	14-08-95
311.0	311.0	NF	North Foreland	GBR	21:23	16-01-98
311.5	311.5	GD	Girdle Ness	GBR	11:56	25-12-98
312.0	312.0	OE	Oostende Rear Lt.H.	BEL	19:10	31-12-97
312.5	312.5	CS	Calais Main Lt.H.	FRA	01:47	25-12-98
312.5	312.5	KA	Klaipeda f-change to 305.0	LIT	01:52	25-12-98
314.5	314.5	CM	Cromer Lt.H.	GBR	20:45	25-12-98
318.0	318.4	BHD	Berry Head cancelled??	GBR	17:45	23-09-96
319.0	318.6	LEC	Stavanger - Varhaug	NOR	14:15	24-12-96
320.0	319.0	FFM	Frankfurt Main	DUI	11:51	26-12-96
328.0	328.4	OLS	Paris - Orly	FRA	00:30	29-09-96
336.5	336.5	NIK	Nicky - St. Niklaas	BEL	12:15	13-12-98
337.0	337.4	LHR	Lahr cancelled??	DUI	19:55	23-09-96
341.5	342.5	BUN	Bruno Brussels	BEL	21:45	09-07-93
344.0	344.4	OLD	Oldham - Manchester	GBR	14:46	22-07-96
345.0	345.4	WDT	Woensdrecht	NED	21:40	09-07-93
345.0	345.0	BT	Le Bourget	FRA	16:05	07-12-96
347.5?	347.5	LAK	Lake - Lelystad	NED	21:45	09-07-93
356.0	355.6	HG	Halfpenny Green renamd to WBA	GBR	19:07	19-01-98
357.0	357.4	BE	Beccles	GBR	15:40	07-12-97
360.1	360.1	GAA	Gatta - Charleroi	BEL	22:00	09-07-93

360.0	361.2	O	Oradea	ROM	22:00	05-12-96
363.0	363.3	TLA	Talla (Edinburgh) cancelled!!	GBR	22:45	09-12-96
363.5	363.2	RSK	Romskog	NOR	20:48	09-12-96
364.0	364.4	GV	Scheveningen - Valkenburg	NED	22:00	09-07-93
367.0	367.0	JEY	Jersey	GBR	??:??	??-07-93
376.0	376.3	GF	Grefsen (Oslo - Fornebu)	NOR	23:15	29-12-96
381.0	381.0	SPY	Spijkerboor	NED	??	< 93
387.0	386.6	VDL	Vardal	NOR	01:35	26-04-97
389.0	389.3	PSW	Ipswich	GBR	00:18	30-12-96
393.0	393.0	DEN	Dender (CANCELLED)	BEL	12:30	13-12-98
395.0	395.4	HEN	Henton moved to 433.5	GBR	13:45	01-10-95
398.5	398.1	OTR	Ottringham - Scampton	GBR	19:30	17-08-95
403.5	403.1	OX	Oxford moved to 367.5	GBR	11:50	15-12-96
405.0	405.8	EWZ	Viljandi moved to 898.0 ??	EST	21:10	24-10-96
406.0	405.6	BIR	Birmingham cancl'd or now BHX	GBR	23:40	23-04-97
417.0	416.6	FY	Finningley	GBR	22:00	22-08-95
429.0	429.4	CLN	Clacton	GBR	23:00	09-07-93
43?.0	432.2	LU	??Batumi?? Uganda - 2nd harm.	??	error??	-96
509.9	509.9	ST	Sint-Truiden (100Hz off-freq)	BEL	18:40	23-12-96