

Walter's Beacon List



Former aerial of MRV 404.0 - Merville (Calonne).
Aero NDB in North of France, total view aerial and big wheel.
Due to the capacitive hat construction a good aerial gain:
a strong signal on a large distance.
Now it has been replaced with a simple glassfiber pole.

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 the 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For all the beacons in this list: If NOT recently logged: Mostly good DX for only once, occasionally: beacon is withdrawn and not known.... Recent withdrawn beacons still listed here (most on a separate, last, page) for reference and awareness for others.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 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 web site info from Alan Gale:

<http://www.beaconworld.org.uk/enter.htm> or <http://www.alan.gale.clara.co.uk/enter.htm>

Go to the download section!!

And from the NDB compilation list by R.A. Connolly: <http://www.kilkeel7.freemove.co.uk/>

NDB list order possibility via Mr. Connolly: <mailto:robert@kilkeel7.freemove.co.uk>

Also order **THE EUROPEAN NDB HANDBOOK** and **CD** from: <mailto:michael.oexner@web.de>

See Mr. Gale's site for more info.

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 the last page with withdrawn NDB's)

Walter Geeraert, PE1ABR walterg@doge.nl

Cor van Soelen's place: <http://www.pg9hf.nl/>

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	00:10 07-01-02
267.0	267.4	FNO Foyno (Haugesund - Karmoy)	NOR	00:07 07-01-02
267.5	268.5	OPW Otopeni - Bucuresti	ROM	01:46 17-11-01
270.1	271.1	FLO Flores Aero - Azores Isl.	POR	00:12 02-11-03
274.0	273.1	JL Yalta	UKR	00:13 07-01-02
274.0	274.0	SAL Sal - Cape Verde Island	POR	01:43 17-11-01
275.0	275.4	VG Vaga	NOR	00:16 07-01-02
275.0	275.4	VLI Vlissingen	NED	00:01 01-04-93
276.5	277.5	BW Bremen West	DUI	00:08 02-01-03
277.0	276.0	PO St. Petersburg	RUS	00:12 25-07-96
277.0	276.6	CHT Chiltern	GBR	16:36 26-10-03
277.0	276.0	GOL Goljama	BUL	00:17 07-01-02
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	16:38 26-10-03
284.0	283.0	GRN Gorna	BUL	00:22 07-01-02
284.0	283.0	FSB Fassberg Air Force	DUI	13:27 07-12-01
---.-	284.0	--- Lizard Point DGPS	GBR	xx:xx
284.5	283.5	DY Dusseldorf (LOM)	DUI	19:27 28-10-03
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
28?.	285.5	AS Castellon	SPA	23:53 02-12-01
285.0	286.0	PT Katowice	POL	19:25 28-10-03
286.5	286.5	TA Villacoublay	FRA	17:56 26-10-03
---.-	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	289.7	TR Tirana (Albania)	ALB	20:58 28-10-03
290.0	289.0	ONL Liege (=Luik) / Bierset	BEL	16:42 26-10-03
290.0	290.5	IV Ivano - Frankivsk	UKR	21:45 10-10-96
290.0	291.1	GRZ Graz	AUS	20:57 28-10-03
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	--- ?? 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
292.5	292.5	BA Punta Estaca de Bares Lt.H.	SPA	21:11 28-10-03

293.0	292.0	OB	Brussels Natl.(Zaventem LOM)	BEL	16:43	26-10-03
293.5	293.5	MH	Mahon - Menorca	SPA	21:59	30-10-03
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
---.-	294.5	---	??	DGPS	??	xx:xx
---.-	295.5	---	??	DGPS	??	xx:xx
295.5	295.5	PS	?? in UK or in Spain	??	22:00	30-10-03
---.-	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	16:46	26-10-03
295.5	295.5	JA	Jaroslawiec	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	---	Mantyluoto	DGPS	FIN	xx:xx
298.0	298.0	FEAEI	reverse morse code	DPQ ??	??	22:20 30-10-03
---.-	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
299.8	299.8	KN	??	??	22:22	08-11-03
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	16:50	26-10-03
301.0	301.0	RTN	Romorantin	FRA	16:53	26-10-03
301.5	300.5	CMP	Campagnano	ITA	22:55	09-01-02
---.-	301.0	---	Lista	DGPS	NOR	xx:xx
---.-	301.5	---	Raufarhofn	DGPS	ICE	xx:xx
---.-	302.0	---	Hoburg	DGPS	SWE	xx:xx
302.0	302.0	TH	Villacoublay	FRA	16:00	26-10-03
---.-	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
304.0	305.0	TND	Tandarei	ROM	01:13	26-12-97
---.-	305.0	---	??	DGPS	??	xx:xx
305.0	306.0	MST	Greven Munster - Osnabruck	DUI	23:02	28-10-03
305.5	305.5	FP	Fife Ness Scotland	GBR	17:48	13-12-98
305.7	304.9	DA	Dalatangi Lt.H.	ICE	22:12	08-11-03
---.-	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	16:57	26-10-03
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	22:03	08-11-03
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	21:37	08-11-03
309.0	310.0	WW	Antwerpen/Deurne		BEL	16:58	26-10-03
309.5	309.5	WR	Vorontsovskiy	\			
309.5	309.5	OD	Odesskiy Lt.H.	\	UKR	23:08	28-10-03
309.5	309.5	EYa	(EÄ) Yevpatoriyskiy	/		to	
309.5	309.5	TR	Tarkhankutskiy	/		23:40	
309.5	309.5	SW	Khersonesskiy	/		synchronized	
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	17:00	26-10-03
---.-	310.5	---	North Foreland	DGPS	GBR	xx:xx	
312.0	312.4	KBG	Karlsborg (airforce)		SWE	01:50	25-12-98
---.-	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	17:02	26-10-03
314.0	314.0	SN	??		??	21:26	08-11-03
---.-	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	17:03	26-10-03
316.0	315.6	EPM	Epsom		GBR	17:04	26-10-03
316.0	316.3	OE	Dublin		IRE	00:32	02-01-98
316.0	316.4	PH	Eindhoven CANCELLED??		NED	14:41	18-11-01
317.0	317.3	HG	Hegra (Trondheim-Vaernes)		NOR	21:10	08-11-03
317.0	317.0	VS	Valenciennes - Denain		FRA	21:10	08-11-03
317.0	317.0	HIG	San Sebastian		SPA	17:08	26-10-03
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	23:15	09-01-02
318.0	317.7	YV	Ylivieska		FIN	23:15	09-01-02
318.0	318.4	LP	Ronneby		SWE	01:03	20-11-01
318.0	318.4	BE	Bordeaux		FRA	23:20	09-01-02
318.0	319.0	LE	Luxemburg		LUX	17:08	26-10-03

319.0	318.6	VAR	Stavanger / Varhaug	NOR	17:10	26-10-03
320.0	319.0	SA	Timisoara - Giarmata	ROM	23:35	09-01-02
320.0	319.0	HA	Hannover East (LOM)	DUI	17:15	26-10-03
320.0	320.0	TY	Troyes - Barberey	FRA	17:14	26-10-03
320.0	321.0	GLA	Gland - Geneva	SUI	16:08	09-12-01
321.0	320.7	VS	??	??	19:23	27-12-96
321.0	320.6	SP	Skrydstrup - Vojens	DEN	23:27	09-01-02
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	321.0	GDA	Gdansk	POL	23:32	09-01-02
322.0	322.4	LCY	London/city	GBR	17:16	26-10-03
322.0	322.4	OU	Stockholm - Bromma	SWE	23:47	09-01-02
322.0	321.7	KOR	Korso - Helsinki	FIN	23:45	09-01-02
323.0	322.0	ONC	Charleroi (Brussels South)	BEL	17:02	26-10-03
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	23:57	09-01-02
324.0	323.6	ML	Tirstrup - Aarhus	DEN	17:25	26-10-03
324.0	324.4	AS	??Kemi	FIN	23:55	09-01-02
325.0	324.6	KAU	Kaunas	LIT	01:04	02-01-98
325.0	324.7	JOE	Joensuu	FIN	20:39	10-01-02
325.0	324.0	DP	Diepholz / German airforce	DUI	17:31	26-10-03
325.0	325.4	OF	Briston / Filton	GBR	17:26	26-10-03
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	17:32	26-10-03
327.0	328.1	LV	Cologne (=Koeln)	DUI	16:24	17-01-98
327.0	327.0	MVC	Merville / Calonne	FRA	17:34	26-10-03
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	17:35	26-10-03
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
329.0	329.4	VX	Vaxjo	SWE	17:47	26-10-03
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	17:48	26-10-03
330.0	330.4	SB	Sonderborg	DEN	17:52	26-10-03
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	17:55	26-10-03
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	17:59	26-10-03
332.0	332.4	LL	Lille - Lesquin	FRA	17:58	26-10-03
332.0	332.4	NV	Schiphol (near Nieuwkoop)	NED	17:56	26-10-03
332.5	332.9	CAM	Cambridge	GBR	18:58	26-10-03
333.0	333.3	SMF	Sheffield	GBR	18:59	26-10-03
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	Gardermoen	NOR	00:10	23-12-97
335.0	335.4	WCO	Westcott	GBR	19:04	26-10-03
335.5	335.9	TWN	Twenthe - Enschede	NED	19:06	26-10-03
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	19:08	26-10-03
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	19:09	26-10-03
339.0	338.6	BIA	Bournemouth	GBR	19:10	26-10-03
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	19:10	26-10-03
339.0	339.0	GI	Glisy - Amiens	FRA	19:14	26-10-03
340.0	339.6	LSHE	Lashenden	GBR	19:18	26-10-03
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	19:21	26-10-03
341.0	340.6	EDN	Edinburg	GBR	21:25	26-12-98
341.0	340.6	POR	Pori	FIN	21:05	08-11-03
342.0	341.6	SL	Goteborg	SWE	01:38	28-12-97
342.0	342.4	GG	Groningen/Eelde	NED	19:25	26-10-03
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	19:28	26-10-03
344.0	344.4	HEK	Heka / Helsinki Vantaa	FIN	19:30	26-10-03

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	19:32	26-10-03
345.5	344.5	CF	Podhorany	CZE	19:31	26-10-03
345.5	344.5	ILE	Podhorany negative CF	CZE	19:40	26-10-03
346.0	345.6	LHO	Le Havre / Octeville	FRA	19:34	26-10-03
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	19:43	26-10-03
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	19:44	26-10-03
349.0	348.7	OYE	Paris / Orly	FRA	19:46	26-10-03
349.0	349.3	JX	Vaxjo	SWE	19:47	26-10-03
349.0	350.2	KSL	Kassel	DUI	19:50	26-10-03
350.0	349.7	LAA	Laanila Oulu	FIN	21:42	19-11-01
350.5	350.1	ROT	Rotterdam - Zestienhoven	NED	19:49	26-10-03
350.5	350.3	HBR	Humberside (Ottringham)	GBR	01:24	10-12-96
351.0	350.6	OV	Visby	SWE	21:13	05-11-03
351.0	351.0	DSA	Dieppe St.Aubin	FRA	19:55	26-10-03
352.0	351.6	WOD	Woodly	GBR	19:49	11-11-01
352.0	351.7	ENS	Ennis - Shannon	IRE	19:57	26-10-03
352.0	351.7	NEW	Newcastle	GBR	18:00	18-01-98
352.5	351.5	DD	Oostende	BEL	19:55	26-10-03
353.0	353.0	INA	??	??	00:59	31-08-97
353.0	353.0	SB	Saint Brieuc	FRA	21:19	05-11-03
353.0	354.2	KRW	Krakow	POL	21:49	19-11-01
353.0	353.4	KIL	Kiel	DUI	21:23	26-10-03
353.5	353.8	EME	East Midlands, Derby	GBR	21:20	26-10-03
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	21:48	26-10-03
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
355.0	355.5	PIK	Prestwick	GBR	21:52	26-10-03
355.4?	355.4	KN	??	??	00:45	10-11-97
356.0	355.6	WBA	Wolverhampton	GBR	21:50	26-10-03
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	21:55	26-10-03
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	21:47	05-11-03
358.0	357.7	RNN	Roanne (Renaision)	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	23:35	05-11-03
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	23:36	05-11-03
359.0	359.0	LOR	Lorient	FRA	23:40	05-11-03
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	23:41	05-11-03
360.0	361.2	SR	Ensheim Saarbrucken (LOM)	DUI	19:22	19-11-01
360.5	359.5	MAK	Mackel (near Deinze/Machelen)	BEL	21:58	26-10-03
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	21:57	26-10-03
361.0	361.4	RO	Kauhava	FIN	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	22:00	26-10-03
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	23:48	05-11-03
362.5	362.1	SND	Southend (East-UK)	GBR	22:02	26-10-03
363.0	361.8	SCF	Schweinfurt AHP	DUI	22:55	30-11-96
363.0	363.3	OEM	Kristianstad - Everod	SWE	22:39	26-10-03
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	23:49	05-11-03
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	22:42	26-10-03
365.0	364.6	GY	London Gatwick	GBR	22:44	26-10-03
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	23:55	05-11-03
365.0	365.4	VS	Tampere	FIN	23:44	04-11-03
365.5	364.5	BC	Brasschaat (9th harm: 374.6)	BEL	22:42	26-10-03
366.0	366.4	SF	Falkoping	SWE	22:45	04-10-96
366.0	366.4	KM	Kalmar	SWE	00:03	06-11-03
366.0	366.4	MB	Maribo Lolland - Falster	DEN	22:49	26-10-03
366.0	366.3	UTH	Uthaug - Orland	NOR	23:59	05-11-03
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	366.4	PNZ	Ponza	ITA	23:38	04-11-03
367.5	367.9	OX	Oxford	GBR	23:36	04-11-03
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	22:55	26-10-03
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	23:33	04-11-03
369.0	368.6	RCH	Rochester	GBR	16:13	13-12-98
369.0	368.6	PS	Rotterdam (Heenvliet-Spyk.-W)	NED	22:54	26-10-03
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	22:57	26-10-03
370.0	370.4	CGZ	Charles de Gaulle, Paris	FRA	23:57	17-12-02
370.5	370.2	LB	Angelholm	SWE	22:16	19-11-01
370.5	370.2	AP	Aberporth - Wales	GBR	23:29	04-11-03
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	372.1	OKT	Kortrijk - Wevelgem	BEL	09:39	02-11-03
371.5	371.3	NH	Norwich	GBR	22:58	26-10-03
372.0	371.6	OZN	Ikerasusuaq Pr.Christiansund	GRE	01:03	01-01-97
372.0	371.6	ODR	Odderoy Kristiansand - Kjevik	NOR	23:00	26-10-03
372.0	372.4	BV	Brough	GBR	22:25	19-11-01
373.0	373.4	NW	Maastricht - Beek	NED	23:08	26-10-03
373.0	372.6	KEM	Kemi - Tornio	FIN	22:09	06-11-03
373.0	373.0	MP	Cherbourg	FRA	23:18	04-11-03
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	373.7	TST	??	??	23:59	26-10-03
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	23:20	26-10-03
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	23:14	26-10-03
375.0	374.0	OO	Oostende	BEL	23:17	26-10-03
375.0	375.4	TR	Tor - Ekofisk Oilplatform	NOR	23:12	26-10-03
375.0	375.8	TRZ	Trzebnica (Trebni) Wroclaw	POL	23:30	25-12-97
375.0	376.2	VM	Vestmannaeyjar	ICE	23:48	27-10-03
376.0	376.4	WP	Schiphol (West-Pier)	NED	23:12	26-10-03
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	23:24	26-10-03
376.5	377.5	ORI	Bergamo - Orio al Serio	ITA	23:02	04-11-03

377.0	377.4	PA	??	??	23:05	04-11-03
377.0	378.0	MGB	Monchengladbach	DUI	15:44	13-12-98
377.0	376.6	KN	Norrkoping / Kungsangen	SWE	23:26	26-10-03
378.0	378.4	OS	Sundsvall Harnosand	SWE	23:00	04-11-03
378.0	377.6	KLY	Killiney,Casement (Balddonnel)	IRE	23:17	19-11-01
378.0	378.4	RSY	Rennesoy (Stavanger / Sola)	NOR	19:45	15-12-96
378.0	379.0	OKI	Sturovo	SLO	23:44	26-10-03
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	15:14	09-11-03
380.0	379.6	LF	Ronneby	SWE	21:02	11-11-01
380.0	380.4	FLR	Trondheim	NOR	22:19	06-11-03
380.0	380.4	WFD	Woodford	GBR	11:39	21-12-97
380.0	380.4	BRI	Bristol	GBR	15:12	09-11-03
381.0	381.4	ESP	Espoo (Helsinki - Vantaa)	FIN	23:55	26-10-03
381.0	380.6	RG	Raufarhofn Lth. Iceland!	ICE	23:47	26-10-03
381.0	381.4	AB	Akraberg Lth.Sydero FaroerIs.	FAR	22:16	06-11-03
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	22:49	06-11-03
383.0	383.4	ALD	Alderney	GBR	22:49	06-11-03
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	00:12	27-10-03
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	00:13	27-10-03
386.0	386.7	LK	Tallinn	EST	23:00	06-11-03
386.0	386.4	BZ	Brize Norton Royal AF	GBR	15:05	09-11-03
386.5	387.5	SLV	Spa (La Sauveniere)	BEL	00:13	27-10-03
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	00:15	27-10-03
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	23:05	06-11-03
388.0	387.6	GUI	Guidonia	ITA	23:05	06-11-03
388.0	387.6	KRU	Kruunu (=Kruunupyy)	FIN	00:50	15-02-98
388.5	388.1	CH	Schiphol (near Buitenkaag)	NED	00:16	27-10-03
388.5	388.1	CDF	Cardiff (Wales)	GBR	00:18	27-10-03
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	23:09	06-11-03
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
390.0	389.0	JEV	Jever (near Wilhelmshaven)	DUI	10:30	02-11-03
390.0	390.0	DR	Dinard	FRA	10:34	02-11-03
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	00:19	27-10-03
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	00:21	27-10-03
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	11:37	02-11-03
395.0	395.4	OA	Schiphol (Wormer)	NED	11:37	02-11-03
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	16:25	26-10-03
397.0	397.4	LYX	Lydd	GBR	16:26	26-10-03
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
399.0	400.0	WBD	Wiesbaden	DUI	16:23	26-10-03
399.5	398.5	ONO	Oostende Haven	BEL	16:37	26-10-03
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	16:18	26-10-03
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	16:19	26-10-03
401.5	402.5	BET	Rheine / Bentlage Ger. Army	DUI	12:13	02-11-03
402.0	400.9	RA	Strunkovice cancelled???	CZE	19:29	12-12-96
402.0	401.0	OP	Brussel Nationaal	BEL	13:43	26-10-03
402.0	402.5	ORW	Paris (Orly)	FRA	13:41	26-10-03
402.0	402.5	LX	Eskilstuna A.F.	SWE	02:00	08-12-96

402.5	402.8	LBA	Leeds & Bradford	GBR	13:42	26-10-03
404.0	403.0	LW	Luxemburg	LUX	13:42	26-10-03
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	13:35	26-10-03
405.0	405.4	AV	Göteborg / Säve	SWE	19:35	12-12-96
405.0	405.8	TR	Zielona Gora	POL	21:40	16-12-01
406.0	406.0	LMX	Les Mureaux	FRA	14:06	26-12-98
406.0	406.3	BHX	Birmingham	GBR	13:31	26-10-03
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	13:31	26-10-03
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	18:45	16-12-01
409.0	410.0	DAR	Darlowo	POL	14:33	09-11-03
409.0	410.2	CZE	Czempin (Lavica)	POL	23:45	23-04-97
410.0	410.0	ETN	Etain - Rouvres	FRA	12:20	26-10-03
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	18:40	16-12-01
412.0	412.4	I	Halli	FIN	01:48	22-12-97
413.0	412.0	KTI	Kuhtai(2nd harm heard on415.2)	AUS	18:41	16-12-01
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	18:29	16-12-01
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	18:23	16-12-01
416.0	416.4	WZ	Newcastle	GBR	13:57	26-12-98
416.0	415.0	POZ	Pozarevac - Belgrade	SRB	18:21	16-12-01
417.0	416.0	LI	Dusseldorf (LOM)	DUI	12:13	26-10-03
417.0	416.6	AH	Angelholm	SWE	12:12	26-10-03
417.0	417.4	ND	Great Yarmouth	GBR	12:12	26-10-03
418.0	417.7	L	Tallin	EST	18:22	16-12-01

418.0	418.0	MK	Calais - Marck	FRA	12:11	26-10-03
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	12:10	26-10-03
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-Herzegowina	BOS	00:59	13-12-96
420.0	420.4	LGS	Loggs North Sea	??	12:08	26-10-03
421.0	420.6	MF	Halmstad	SWE	14:53	02-11-03
421.0	420.6	BUR	Burnham	GBR	12:03	26-10-03
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	11:58	26-10-03
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	11:56	26-10-03
424.0	423.5	STI	Markham Oilplatform	??	19:00	17-08-95
424.0	423.6	HRW	Heathrow - London	GBR	11:55	26-10-03
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	23:06	02-11-03
426.0	425.6	SH	Shobdon	GBR	16:25	10-11-01
426.0	426.0	CO	??	??	15:16	02-11-03
426.0	427.0	GBG	Gleichenberg	AUS	23:29	03-11-03
426.0	426.4	IW	Bembridge	GBR	13:55	09-11-03
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	??	14:51	09-11-03
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	23:12	02-11-03
427.0	427.4	LUE	Lunde - Kramfors	SWE	23:35	03-11-03
427.0	427.4	UN	Kurgan	RUS	23:55	27-01-97
428.0	426.8	CTX	Chateauroux	FRA	23:36	03-11-03
428.0	428.0	BST	Lanveoc, Poulmic	FRA	23:20	02-11-03
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	428.0	LOS	Losinj	CRO	23:35	03-11-03
429.0	428.6	SSD	(ex: TST) Stansted - London	GBR	11:45	26-10-03

429.0	427.0	TGM	Tirgu - Mures	ROM	23:18	02-11-03
429.0	428.6	D	David - Bratislava	SLO	00:33	20-11-01
430.0	430.4	NOT	Nottingham (East-Midlands)	GBR	11:43	26-10-03
430.0	430.0	SN	Saint Yan	FRA	23:29	02-11-03
431.0	430.0	ONT	Kleine Brogel	BEL	11:42	26-10-03
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	431.6	G	??	??	23:42	03-11-03
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	23:37	02-11-03
433.0	434.0	JRZ	Jerez	SPA	22:48	12-11-01
433.5	433.0	HEN	Henton	GBR	11:42	26-10-03
434.0	433.2	A	Bucharest Baneasa	ROM	00:35	25-12-96
434.0	434.4	THN	Thorn	NED	11:41	26-10-03
434.0	435.0	SK	Leipzig	DUI	23:46	03-11-03
434.0	434.5	MV	Melun (Villaroche)	FRA	23:41	02-11-03
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	23:52	02-11-03
435.0	436.0	ZBN	Zweibrucken	DUI	23:52	02-11-03
436.0	436.0	BR	??	??	23:55	02-11-03
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	23:48	03-11-03
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	00:01	03-11-03
440.0	439.0	OR	Rzeszow	POL	00:02	03-11-03
440.0	441.0	DRE	Drezdenko	POL	00:04	03-11-03
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	00:06	03-11-03
444.6	444.6	RJ	Gyzylarbat	TKM	00:30	26-10-96
445.0	446.0	TU	Tuzla	BOS	00:07	03-11-03
445.0	446.0	ZG	Szeged	HON	00:09	03-11-03
447.0	447.0		morse traffic in Italian	?	20:53	13-12-01
448.0	447.0	HLV	Holesov	CZE	00:10	03-11-03
448.0	447.0	LQ	Landsberg / Lech	DUI	22:14	08-12-01
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	00:13	03-11-03
452.0	451.0	ANS	Ansbach Army Heliport	DUI	00:14	03-11-03
452.0	453.0	GP	Grodno	BLR	00:24	25-10-96
453.0	453.0	IAE	reverse morse on carrier CN	CZE	22:05	08-12-01
453.0	454.0	CN	Piestany	CZE	22:05	08-12-01
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	00:16	03-11-03
468.0	469.0	VTN	Kraljevo	SRB	23:17	07-01-02
470.0	471.0	UZ	??	??	23:43	06-01-02
470.0	470.0	BK	??	??	23:32	08-01-02
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	00:18	03-11-03
474.0	475.0	RZ	Rzeszow /Jasionka (former RZE)	POL	00:19	03-11-03
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
477.0	476.9	EREE	?? = reverse RP	CZE	23:20	08-01-02
47?.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	00:21	03-11-03
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	23:16	08-01-02
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	00:28	27-10-03
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	490.0	---	Navtex data in local language	xx:xx		
490.0	491.0	KO	Koshany	UKR	22:59	08-01-02
490.0	491.0	DVI	Donauschingen Villingen	DUI	21:05	08-01-02
490.0	489.0	WAK	Vakarel	BUL	00:26	27-10-03
492.0	493.0	TBV	Moravska - Trebova	CZE	00:26	27-10-03
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	Pancevo	SRB	00:25	27-10-03

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	00:25	03-11-03
508.0	507.0	G	Gomel Belarussia	BLR	21:30	06-09-97
512.0	512.0	IT	??	??	23:31	06-01-02
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	516.0	JBR	Jaszbereny	HON	23:30	29-10-03

 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	00:22	27-10-03
518.0	517.2	TM	Tomakivka	UKR	23:10	06-01-02
518.0	519.0	(E)A??	only A = Bacau	ROM	21:30	26-03-97
519.0	519.0	BS	??	??	23:44	29-10-03
520.0	519.0	OM	??	??	18:14	27-11-01
523.0	523.0	KG	??	??	23:44	31-10-03
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	23:01	07-01-02
525.0	526.0	HG	Wroclaw-Strachowice	POL	23:40	29-10-03
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
534.0	533.0	SL	Bydgoszcz	POL	00:05	27-11-01
545.0	545.4	LIC	Lichfield	GBR	12:19	02-11-03
588.0	589.0	P	Katowice	POL	23:00	08-04-97
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 nov-2003 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
284.0	283.5	MY	Cabo Mayor	SPA	12:15 11-11-01
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
298.0	298.0	EL	Elbe Lt.H.	DUI	15:10 25-12-98
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	MY	Cabo Mayor	SPA	13:18 31-10-96
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
376.0	376.4	MW Middle Wallop	GBR	18:30	27-04-97
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
590.0	591.0	OL Szczecin	POL	00:50	29-03-99