

**COMBINED RESULTS  
EUROPE**

For overall statistics, please see the covering email.

**KEY TO RECEIVER TYPES:**

<b>OAD</b>	a <b>Crystal Set</b> (!)
<b>1AD</b>	<b>Single Active Device</b> with regen (e.g. based on the sets made by Mike, Finbar and others)
<b>+AD</b>	<b>1AD with extra amplification</b> in the aerial or with added RF or AF stage(s)
<b>HB</b>	Other <b>Homebrew / DIY</b> Receiver
<b>VIN</b>	<b>Vintage</b> Receiver - pre 1960 or tubes/valves only
<b>CLC</b>	<b>Classic</b> Receiver - 1960 onwards
<b>POR</b>	<b>Portable / Ultralight</b> Receiver (maybe modified to cover NDB frequencies with a modified aerial)
<b>WEB</b>	<b>Web</b> Receiver (Kiwi, Twente, etc.)
<b>SDR</b>	<b>Software Defined Radio</b>

**Reporters:**

<b>CZE</b>	ms	Miroslav Sperlin, Olomouc
<b>CZE</b>	my	Milos Holy, Lhota pod Radcem
<b>DEU</b>	je	Joachim Rabe, Norderstedt, north of Hamburg
<b>ENG</b>	ap	Andrew Price, Aston, Sheffield
<b>ENG</b>	bk	Brian Keyte, Bookham, Surrey
<b>ENG</b>	hh	Brian Heath, Stapleton, Leicestershire
<b>ENG</b>	me	Mike Thayne, Whitley Bay
<b>ENG</b>	mt	Mike Trodd, Yapton, near Arundel, W Sussex
<b>ENG</b>	px	Peter Greatorex, Bolsover, Derbyshire
<b>ENG</b>	re	Ray Evans, Bolsover, Derbyshire
<b>HOL</b>	rb	Roelof Bakker, Middelburg, Zeeland
<b>ITA</b>	wb	William G Buchanan, Alessandria
<b>SCT</b>	ds	David Atkins, Tighnabraich, Argyll
<b>SCT</b>	l3	Jay Law, While at Ballachulish Slate Quarry

<b>CLC</b>	Wandel and Golterman SPM-19
<b>POR</b>	Old (1968?) mod for NDB band
<b>+AD</b>	Dual gate BF966 MOSFET with LM386 amp
<b>CLC</b>	Low Electronics HF-150
<b>1AD</b>	BF362 with regen.
<b>CLC</b>	JRC NRD 535
<b>POR</b>	Eton E5
<b>POR</b>	Sony 2001D
<b>+AD</b>	Regen 1 buffer/att mosfet detector ic audio out
<b>CLC</b>	TenTec RX340
<b>POR</b>	Tecsun PL-380
<b>POR</b>	Tecsun PL-880
<b>POR</b>	XHDATA 808
<b>POR</b>	Tecsun PL-380

For full details, please see the individual reporters' logs,  
as previously posted by them to the List.  
If you spot an omission or problem in your own details  
please let us know  
( ndbcle[at]gmail.com - replace the 'at' by an @ symbol )





DNK	328.0	VJ	Stauning			00													
DNK	330.0	SB	Sonderborg			06													
DNK	334.0	FAU	Bornholm / Ronne / Fauna			00													
DNK	346.0	AU	Stauning			21													
DNK	368.0	RK	Copenhagen / Roskilde			22													
DNK	423.0	FE	Odense / Beldringe	18		01			00		20	20	19						18
ENG	277.0	CHT	Chiltern				12				12		13						17
ENG	316.0	EPM	Epsom for Heathrow				17	12	19				16	13					
ENG	318.0	BPL	Blackpool				18		19			12	13						17
ENG	322.0	LCY	London / City					12	11				17						
ENG	323.0	SBL	Sherburn-In-Elmet				17					12	12						17
ENG	327.0	TNL	Tatenhill				03		18			20	17						
ENG	328.0	BLK	Blackbushe					12											
ENG	328.0	CL	Carlisle				06			12		12	14	21			12		17
ENG	331.0	GST	Gloucester				17	12	18			22	17				23		
ENG	332.0	SHM	Shoreham					12											
ENG	332.5	CAM	Cambridge				02	13	19			12	19	13					
ENG	335.0	WCO	Westcott				17	12	18			12	12				23		
ENG	337.0	EX	Exeter					12											
ENG	337.0	WTN	Warton				06						17						17
ENG	338.0	FNY	Robin Hood / Doncaster				17	11	18	12		12	12						17
ENG	339.0	BIA	Bournemouth				03	12	18			17	22	15	19				
ENG	340.0	LSH	Lashenden / Headcorn				07	12	22			17	22		13		01		17
ENG	342.5	NWI	Norwich				18	13	18			17	12	13	13		00		17
ENG	343.0	YVL	Yeovil / Westland					13	11			20	12	17					
ENG	347.0	NQY	Newquay				18		18								01		
ENG	347.5	TD	Teeside				18		11	12		12	15						17
ENG	349.5	LPL	Liverpool				18		18			12	12						17
ENG	352.0	NT	Newcastle				17			12			13						17
ENG	352.0	WOD	Woodley				17	12	22		00	13	15				00		17
ENG	353.5	EME	East Midlands				17	13	18			00	13	12					
ENG	356.0	WBA	Wolverhampton				17	12	18			00	21		13				
ENG	362.5	SND	Southend-On-Sea				18	12	18			23	19	15	11				17
ENG	365.0	KIM	Kirmington				17						21	12					
ENG	367.5	OX	Oxford / Kidlington				17	12	00			23	13	15					17
ENG	368.5	WHI	Whitegate for Hawarden				18		22				13	12					
ENG	369.0	RCH	Rochester					12				17							
ENG	383.5	LE	Leicester				07		22				21	15					
ENG	385.0	WL	Barrow / Walney Isl				02						13	15					
ENG	386.0	BZ	Brize Norton				17	12	01				13	12	11				
ENG	393.0	EMW	East Midlands				21		22				13	12					
ENG	397.0	LZD	Lydd					12							11				
ENG	402.5	LBA	Leeds / Bradford				21		11	12			13	13					18
ENG	406.0	BHX	Birmingham				21	12	18				13	13					
ENG	421.0	BUR	Burnham					12					13	12	11				18
ENG	423.0	CWL	Cranwell					12					13	13					
ENG	426.0	SH	Shobdon											18					
ENG	433.5	HEN	Henton					12					13	12			01		18



FRA	367.0	VAT	Chalon / Vatry			02			22			19	18	22		
FRA	368.0	TLB	Toulouse / Blagnac											22		
FRA	369.0	CM	Avignon / Caumont											22		
FRA	369.0	GL	Nantes / Atlantique									19			00	
FRA	370.0	BSV	Besancon / La Veze	18										22		
FRA	373.0	MP	Cherbourg / Maupertus				07	12			17					
FRA	374.0	BGC	Bergerac / Roumaniere								21					
FRA	379.0	EB	St Etienne / Boutheon									21				
FRA	380.0	HO	Colmar / Houssen				04						20			
FRA	380.0	RQ	Quimper / Pluguffan									20				
FRA	384.0	PMR	Pamiers / Les Pujols												00	
FRA	385.0	CSC	Cannes / Ile de Leirins	19												
FRA	385.0	OAN	Orleans / Bricy						01			19				
FRA	387.0	ING	St. Inglevert										11			
FRA	390.0	DR	Dinard / Pleurtuit-St Malo				22	13				20		21		00
FRA	390.5	ITR	Istres / Le Tube													00
FRA	391.0	BV	Beauvais / Tille					12				19	11			00
FRA	392.0	AS	Angers / Avrille													18
FRA	397.0	BLB	Blois / Le Breuil													00
FRA	398.0	LRN	Lorquin / Xouaxange									18				
FRA	398.0	MT	St Nazaire / Montoir				21					19				01
FRA	400.0	AG	Agen / La Garenne									20				01
FRA	401.0	LA	Laval / Entrammes									20	21			
FRA	404.0	AGO	Angouleme / Brie Champniers									19				
FRA	404.0	CNE	Caen / Carpiquet					11								
FRA	404.0	MRV	Merville / Calonne					12	22			15	11			
FRA	406.0	TW	Toulouse / Blagnac												01	
FRA	410.0	ETN	Etain / Rouvres								19	19	18			18
FRA	412.0	SE	Strasbourg / Entzheim										21			18
FRA	415.0	TOE	Toulouse / Blagnac												01	
FRA	417.0	AX	Auxerre / Branches									17	21		01	
FRA	418.0	MK	Calais / Dunkerque					12			13	16	11		01	18
FRA	419.0	EMT	Epinal / Mirecourt									18	18			
FRA	424.0	PHG	Phalsbourg / Bourscheid				01			17		20	20	18		01
FRA	427.0	RY	Royan / Medis													01
FRA	428.0	BST	Lanveoc / Poulmic													01
FRA	428.0	CTX	Chateauroux / Deols				01									01
FRA	430.0	SN	St Yan				01					20				
FRA	432.0	PRD	Peyrehorade													01
FRA	434.0	MV	Melun / Villaroche				02									01
GRC	362.0	LSA	Larissa	17										22		
GRL	372.0	OZN	Prins Christian Sund / Kitaa					02				21	19	21		
HOL	326.0	LLS	Lelystad											13		
HOL	330.0	SO	Eelde / Groningen				06	05								
HOL	332.0	NV	Amsterdam / Schiphol											13		
HOL	350.5	ROT	Rotterdam					07	22		20			13		
HOL	369.0	PS	Rotterdam Locator											11		
HOL	386.0	STD	Stad Aan Het Haringvliet											11		









UKR	445.0	ZU	Starokonstantinov	16	17													
WLS	323.0	WPL	Welshpool				17				18				22	12		
WLS	340.0	HAW	Hawarden				17	11		18	12			12	13	21		01
WLS	388.5	CDF	Cardiff				17	12		12				20				17
XOE	359.0	BUZ	Buzzard / Nexen Platform				07				21							
XOE	375.0	EKO	Ekofisk L				18				12	21			21			
XUU	381.0	TEST	UNID	17														
Cou, S/P	QRG	ID	Name	CZE	CZE	DEU	ENG	ENG	ENG	ENG	ENG	ENG	ENG	HOL	ITA	SCT	SCT	
				ms	my	je	ap	bk	hh	me	mt	px	re	rb	wb	ds	I3	
				CLC	POR	+AD	CLC	1AD	CLC	POR	POR	+AD	CLC	POR	POR	POR	POR	

### COUNTRIES HEARD:

This table shows the number of NDBs logged from each radio country by each reporter.

Cou	Cou-Name	CLC	POR	+AD	CLC	1AD	CLC	POR	POR	+AD	CLC	POR	POR	POR	POR			
		CZE	CZE	DEU	ENG	ENG	ENG	ENG	ENG	ENG	ENG	HOL	ITA	SCT	SCT			
		ms	my	je	ap	bk	hh	me	mt	px	re	rb	wb	ds	I3			
ALG	Algeria												1					
AUT	Austria	10	10	5	2		2	3	1	2	3	3	1	2	2			
AZR	Azores						1							1				
BAL	Balearic Islands												1					
BEL	Belgium			4	3	6	6		3	3	3	10	1	1	2			
BIH	Bosnia-Hercegovina	2	3		1					1		1	2					
BUL	Bulgaria	4	2	1														
CAN	Canada, QC				1													
COR	Corsica	1											2					
CZE	Czechia	9	6	2				1										
DEU	Germany	11	10	24	5		3	1	3	4	8	10	2	4	7			
DNK	Denmark	1		8				1		1	1	1			1			
ENG	England				30	26	26	5	10	32	33	12		8	17			
ESP	Spain				2		1			1	1	1		4				
EST	Estonia				1			2				2		1				
FIN	Finland							3			2							
FRA	France	3		6	17	20	10	1	11	14	24	25	18	24	7			
GRC	Greece	1											1					
GRL	Greenland				1					1	1	1						
HOL	Netherlands			1	2		1		1			9						1
HRV	Croatia	7	7	5			1	1	2		1	2	4		1			1
IOM	Isle Of Man									1	1							
IRL	Ireland				6		6	4		6	4			6				
IRN	Iran	1											1					
ISL	Iceland				1		1				1	1						
ITA	Italy	10	3	4					1			2	4					
JSY	Jersey					1												
KAL	Kalinigrad	1																
LTU	Lithuania	2			1			1										
LUX	Luxembourg		1	1			1				1	1		1	1			

<b>MKD</b>	Macedonia	1																
<b>NIR</b>	Northern Ireland			1					2	1				2				
<b>NOR</b>	Norway	1	6	10		3	11	2	1	5	6			7	2			
<b>POL</b>	Poland	5	1	6	1	1	3		1	1								2
<b>POR</b>	Portugal													2				
<b>ROU</b>	Romania	3											2					
<b>SCT</b>	Scotland			4		1	3	1	3	2	1			8	8			
<b>SRB</b>	Serbia (Yugoslavia)	7	2				1		1	1	1	1						
<b>SUI</b>	Switzerland	2	1	1														
<b>SVK</b>	Slovakia	6	2	2														
<b>SVN</b>	Slovenia	2	1	1								1	2					
<b>SWE</b>	Sweden	6	2	21	6	2	16		6	4	8			6	7			
<b>TUR</b>	Turkey	1											1					
<b>UKR</b>	Ukraine	2	2															
<b>WLS</b>	Wales				3	2	3	1		3	2	1		2	2			
<b>XOE</b>	Int Waters: Europe				2			2	1			1						
<b>XUU</b>	UNID (No idea where)	1																
<b>Cou</b>	<b>Cou-Name</b>	<b>CZE</b>	<b>CZE</b>	<b>DEU</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>HOL</b>	<b>ITA</b>	<b>SCT</b>	<b>SCT</b>			
		<b>ms</b>	<b>my</b>	<b>je</b>	<b>ap</b>	<b>bk</b>	<b>hh</b>	<b>me</b>	<b>mt</b>	<b>px</b>	<b>re</b>	<b>rb</b>	<b>wb</b>	<b>ds</b>	<b>l3</b>			
		<b>CLC</b>	<b>POR</b>	<b>+AD</b>	<b>CLC</b>	<b>1AD</b>	<b>CLC</b>	<b>POR</b>	<b>POR</b>	<b>+AD</b>	<b>CLC</b>	<b>POR</b>	<b>POR</b>	<b>POR</b>	<b>POR</b>			

**LISTENING TIMES:**

This table shows the number of NDBs logged by each reporter during the time periods.

	<b>CLC</b>	<b>POR</b>	<b>+AD</b>	<b>CLC</b>	<b>1AD</b>	<b>CLC</b>	<b>POR</b>	<b>POR</b>	<b>+AD</b>	<b>CLC</b>	<b>POR</b>	<b>POR</b>	<b>POR</b>	<b>POR</b>
	<b>CZE</b>	<b>CZE</b>	<b>DEU</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>HOL</b>	<b>ITA</b>	<b>SCT</b>	<b>SCT</b>
<b>UTC (hh)</b>	<b>ms</b>	<b>my</b>	<b>je</b>	<b>ap</b>	<b>bk</b>	<b>hh</b>	<b>me</b>	<b>mt</b>	<b>px</b>	<b>re</b>	<b>rb</b>	<b>wb</b>	<b>ds</b>	<b>l3</b>
00:00 - 00:59			11			8	14	13	3			7	16	
01:00 - 01:59		2	20			4	8						41	
02:00 - 02:59		1	8	7									2	
03:00 - 03:59				11										
04:00 - 04:59				4										
05:00 - 05:59			2	5										
06:00 - 06:59			6	4										
07:00 - 07:59			1	6										
08:00 - 08:59				1										
09:00 - 09:59														
10:00 - 10:59														
11:00 - 11:59	4				5	6					21	1		
12:00 - 12:59	17				40	1	10		16	12			13	
13:00 - 13:59	4				10				14	7	27			
14:00 - 14:59										1				
15:00 - 15:59	7									11				
16:00 - 16:59	2	11								7				

17:00 - 17:59	30	14		21			5	7		22	1			29
18:00 - 18:59	31		3	12		17				5	13			32
19:00 - 19:59	4	5				8			9	24	7			
20:00 - 20:59		8	1				2	6	12	10	10			
21:00 - 21:59		6	18	19		1	9	6	13	1	20			
22:00 - 22:59		3	17	10		24			11			25		
23:00 - 23:59		4	11				12	5	4		1	11	8	
UTC (hh)	CZE	CZE	DEU	ENG	ENG	ENG	ENG	ENG	ENG	ENG	HOL	ITA	SCT	SCT
	ms	my	je	ap	bk	hh	me	mt	px	re	rb	wb	ds	I3
NDBs	99	54	98	100	55	69	60	37	82	100	100	44	80	61
	CLC	POR	+AD	CLC	1AD	CLC	POR	POR	+AD	CLC	POR	POR	POR	POR

### NDB COUNTS, BY FREQUENCY:

and the number logged by all on each frequency, ignoring offsets:

NDBs	QRG	CLC	POR	+AD	CLC	1AD	CLC	POR	POR	+AD	CLC	POR	POR	POR	POR	NDBs
		CZE	CZE	DEU	ENG	ENG	ENG	ENG	ENG	ENG	ENG	HOL	ITA	SCT	SCT	
		ms	my	je	ap	bk	hh	me	mt	px	re	rb	wb	ds	I3	
1	265.0	1		1												1
1	277.0					1				1		1			1	1
1	280.0			1												1
2	284.0	1	1	2												2
1	286.0		1	1												1
1	286.5					1										1
2	290.0	1	1									1				2
2	293.0	1				1				1		1				2
1	295.0	1														1
1	297.0	1														1
2	300.0	2	1													2
1	303.0	1	1													1
1	307.0		1	1							1			1		1
1	309.0	1														1
2	311.0	1		2	1		1			1	1	1		1	1	2
1	312.0	1														1
1	314.0			1			1					1				1
1	315.0				1	1				1	1	1		1		1
5	316.0		1	1	2	1	2			2	2	1		2		5
2	317.0				2	1	1	1		1	1	2		1		2
2	318.0			1	1		1			1	1			1	1	2
1	319.0			1	1		1	1		1	1	1		1	1	1
2	320.0	1	1			1										2
4	321.0	2		1	1	1	1			1	1	1				4
4	322.0	1			1	1	1	1			1			1		4
4	323.0			1	2		1			2	2	1		1	2	4
2	324.0	1								1	1	1		1		2

4	325.0	1	1	1	1	1	1	1	1	1	2	1	4
2	326.0			1	1					2			2
3	327.0	1	1	1	2	1	2	1	2	3	1	1	3
3	328.0			1	1	1		1	1	1	1	1	3
1	328.5				1				1				1
2	329.0			1	1	1							2
4	330.0	2	1	2	1								4
2	331.0				1	1	1		1	1	2	1	2
4	332.0				1	2			1	1	2		4
1	332.5				1	1	1		1	1	1		1
1	333.0			1									1
1	333.5	1	1	1									1
4	334.0	1	2	2						1		1	4
2	335.0	1	1	1	1	1			1	1	1		2
3	337.0	1			1	1				1		1	3
3	338.0	1	1	1	1	1	1		1	1	1	1	3
3	339.0			1	2	2	1		1	1	2		3
4	340.0	1	1		3	2	2	1	1	2	1	2	4
2	341.0				1			1	1	1		1	2
2	342.0			2	1		1	1	1			1	2
1	342.5				1	1	1	1	1	1	1	1	1
3	343.0	2			1	1	1	1	1	1		1	3
2	344.0			1					1				2
4	345.0	1	1	1	1				1		1		4
1	345.5	1	1	1									1
2	346.0			1	1	1	1		1	1	1		2
2	347.0				1		2		1	1	1	2	2
1	347.5				1		1	1		1			1
4	348.0	1		1	1			1	1			1	4
2	349.0			1	1			1					2
2	349.5	1			1		1		1	1		1	2
4	350.0	3	1	1					1		2		4
1	350.5				1		1		1		1		1
6	351.0	1		1	1	1	1	1	2	1	1	4	6
1	351.5	1	1	1				1	1		1		1
4	352.0				2	1	1	2	2	1	2	1	4
1	352.5					1	1				1		1
4	353.0			1	1	1		1			2		4
1	353.5				1	1	1	1	1	1			1
3	354.0	2		1	1			1	1		1	2	3
5	355.0	3		1	2	1	2	2		1	2	2	5
2	356.0				1	1	1	1	1		1	1	2
3	357.0	1		1							3	1	3
2	357.5	1		1							2		2
5	358.0	1	1	1		1				1	4		5
4	359.0				1		1	1	2	2	2	1	4
3	360.0						1	1			2		3
1	360.5			1	1	1		1	1	1	1		1

2	361.0			2		2	1		1		1	1		2
3	362.0	2		1							1			3
1	362.5			1	1	1		1	1	1			1	1
3	363.0	2		1	2		1	1			2			3
2	364.0	1									2			2
4	365.0	1	1	1	2			1	1	1	1			4
2	366.0			2	1		1		1	1	1		1	2
3	367.0	1	1	2		2		1	1	1	1	3		3
1	367.5				1	1		1	1	1			1	1
4	368.0			1		1			1		1	1	1	4
2	368.5				1	2			1	1				2
8	369.0	1		1	1		1	1		1	2	3	1	8
4	370.0	3	1		1			1		1	1	2		4
1	370.5		1	1									1	1
1	371.0						1							1
4	372.0	1	2	2	2	1	1	1	1	2	2		1	4
2	373.0			1	1			1		1				2
1	374.0							1						1
7	375.0	2		3	3	1	2	2	2	2	4			7
1	376.0		1	1	1		1		1	1	1		1	1
1	376.5	1									1			1
4	378.0	1	1	2	3	2	3	1	2	1	1		2	4
1	379.0									1				1
6	380.0	2		1	2	1	3			1	1		1	6
2	381.0	1								1				2
4	382.0	2	1	1	1	1	1			1	2		2	4
1	383.0			1			1						1	1
1	383.5				1	1			1	1				1
2	384.0				1				1				1	2
5	385.0	3		1	1	1	2	1	2	2			1	5
3	386.0				1	1	1	1	1	1	3			3
3	387.0				1	1	1	1	1	1	1		2	3
2	388.0	1						1						2
2	388.5				1	1	1		1		1		1	2
3	390.0	2	2	1	1	1			1		1		1	3
1	390.5												1	1
2	391.0	1		1		1				1	1		1	2
2	392.0			1									1	2
1	393.0				1	1			1	1				1
3	394.0			1	1		2		1	1			1	3
3	395.0								1				1	3
1	396.0			1						1				1
4	397.0				1	1	1	1	1		2		2	4
3	398.0				1			1		2			1	3
1	399.0			1				1			1			1
1	399.5				1	1	1		1		1		1	1
4	400.0		1	1	1		1			1	2		1	4
1	400.5	1	1	1						1	1			1

2	401.0										1	1		1	1	2
1	402.0			1								1				1
1	402.5				1			1	1		1				1	1
1	403.0			1						1						1
9	404.0	1			2	2	1	2			3	2		2	1	9
1	404.5											1				1
2	406.0				1	1	1			1	1			1		2
1	406.5			1	1						1	1			1	1
1	407.0													1		1
1	408.0	1	1	1	1		1			1	1	1				1
1	409.0			1	1			1		1	1	1		1	1	1
3	410.0		1		1		1			1	1	1			1	3
3	412.0		1									1		1	1	3
1	413.5	1	1	1							1	1		1	1	1
1	414.0								1			1		1		1
2	415.0	1		1					1					1		2
2	416.0	1	1								1	1	1			2
4	417.0			2				1		1	3	4		2	1	4
1	418.0					1				1	1	1		1	1	1
2	419.0							1		1	1	1				2
2	420.0	1	1							1	1	1		1		2
3	421.0	1	1	1		1		1		3	1	2		1	2	3
1	422.0	1														1
3	423.0	2		1		1		1		2	2	1			1	3
2	424.0	1		2				1		1	1	2		1	1	2
1	425.0													1		1
4	426.0	2	2	1				1		1	1	1			1	4
1	427.0													1		1
3	428.0	1		1										2	1	3
2	429.0	2		1							1					2
1	430.0			1							1					1
2	431.0										1	1				2
2	432.0	1	1	1					1					1		2
2	433.0		1											1	1	2
1	433.5					1					1	1		1	1	1
2	434.0	1		1										1		2
1	437.0	1														1
4	438.0	2	3	1												4
1	444.0	1	1	1				1		1					1	1
2	445.0	1	2													2
1	450.0		1													1
1	452.0	1	1													1
1	458.0	1														1
1	468.0			1							1					1
1	488.0			1												1
1	489.0			1												1
<b>NDBs</b>	<b>QRG</b>	<b>CZE</b>	<b>CZE</b>	<b>DEU</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>ENG</b>	<b>HOL</b>	<b>ITA</b>	<b>SCT</b>	<b>SCT</b>	<b>NDBs</b>

			ms	my	je	ap	bk	hh	me	mt	px	re	rb	wb	ds	I3		
			CLC	POR	+AD	CLC	1AD	CLC	POR	POR	+AD	CLC	POR	POR	POR	POR		

**MOB:** The following NDBs were heard by one reporter only - 'Mine Only Beacons' !  
(Occasionally an entry may be the result of an incorrectly received ident)

QRG	ID	Name	SP	ITU	Rptr	UTC
340.0	YY	Mont Joli	QC	CAN	ap	0435
362.0	BVK	Orsta-Volda / Hovden / Baatvik		NOR	ap	0341
404.0	LRD	Lerida		ESP	ap	2141
286.5	TA	Villacoublay / Velizy		FRA	bk	1133
320.0	TY	Troyes / Barberey		FRA	bk	1339
328.0	BLK	Blackbushe		ENG	bk	1250
329.0	JW	Jersey		JSY	bk	1343
332.0	SHM	Shoreham		ENG	bk	1207
337.0	EX	Exeter		ENG	bk	1236
404.0	CNE	Caen / Carpiquet		FRA	bk	1143
316.0	BRR	Barra		SCT	ds	0134
325.0	AST	Asturias		ESP	ds	2320
332.0	TLF	Toulouse / Franczal		FRA	ds	0139
334.0	KER	Kerry / Farranfore		IRL	ds	0142
382.0	LAR	Arruda		POR	ds	0046
384.0	PMR	Pamiers / Les Pujols		FRA	ds	0043
390.5	ITR	Istres / Le Tube		FRA	ds	0054
395.0	LAY	Islay		SCT	ds	1256
397.0	BLB	Blois / Le Breuil		FRA	ds	0059
404.0	OBN	N. Connell / Oban		SCT	ds	1258
406.0	TW	Toulouse / Blagnac		FRA	ds	0106
407.0	LUP	Laupheim		DEU	ds	0109
412.0	GRA	Granada		ESP	ds	0111
415.0	TOE	Toulouse / Blagnac		FRA	ds	0115
425.0	EVR	Evora		POR	ds	0122
427.0	RY	Royan / Medis		FRA	ds	0123
428.0	BST	Lanveoc / Poulmic		FRA	ds	0124
432.0	PRD	Peyrehorade		FRA	ds	0126
433.0	VON	Vigo		ESP	ds	0127
368.5	ELU	Luxembourg-Berg		LUX	hh	2220
280.0	ND	Swidwin		POL	je	0059
284.0	FSB	Fassberg		DEU	je	0624
316.0	IN	Sonderborg		DNK	je	0653
321.0	VO	Vojens / Skrydstrup		DNK	je	2154
325.0	DP	Diepholz		DEU	je	0515
328.0	VJ	Stauning		DNK	je	0024
330.0	SB	Sonderborg		DNK	je	0638



333.0	PI	Schwerin / Parchim	DEU	je	0641
334.0	FAU	Bornholm / Ronne / Fauna	DNK	je	0010
339.0	HOS	Hamburg	DEU	je	2117
342.0	SL	Goteborg / Landvetter	SWE	je	0000
344.0	HN	Hohn	DEU	je	2119
346.0	AU	Stauning	DNK	je	2112
348.0	WA	Stockholm / Arlanda	SWE	je	2352
349.0	JX	Vaxjo / Kronoberg	SWE	je	2349
368.0	RK	Copenhagen / Roskilde	DNK	je	2205
372.0	NDO	Nordholz	DEU	je	2222
375.0	KD	Kristanstad / Everod	SWE	je	2218
378.0	OS	Sundsvall / Harnosand	SWE	je	2234
392.0	RW	Berlin / Tegel West	DEU	je	2318
394.0	LYE	Lubeck / Blanckensee	DEU	je	2249
396.0	YG	Rygge / Enge	NOR	je	2329
403.0	OJ	Jonkoping	SWE	je	0131
488.0	NPR	Tomaszow-Mazowiecki / Porter	POL	je	0214
489.0	NK	Poznan / Krzesiny / Kamera	POL	je	2041
392.0	AS	Angers / Avrille	FRA	I3	1814
322.0	OU	Stockholm / Bromma	SWE	me	0046
352.0	PSJ	Seinajoki	FIN	me	2331
369.0	NL	Goteborg / Landvetter	SWE	me	0018
371.0	BRS	Bremsnes for Kristiansund / Kvernberget	NOR	me	2340
388.0	KRU	Kokkola-Pietarsaari / Kruunupyy	FIN	me	0035
394.0	NB	Bromma	SWE	me	2350
398.0	PEO	Stockholm / Skavsta / Peola	SWE	me	0126
404.0	Y	Kemi-Tornio / Ketolanpera	FIN	me	0125
293.0	STE	Wien / Schwechat / Steinhof	AUT	ms	1156
295.0	PT	Skopje	MKD	ms	1535
297.0	PNY	Piestany	SVK	ms	1157
300.0	PV	Novi Sad / Cenej / Petrovaradin	SRB	ms	1554
309.0	MW	Berlin / Schonefeld	DEU	ms	1851
312.0	BOZ	Bozhurishte	BUL	ms	1721
321.0	BU	Burgas	BUL	ms	1856
321.0	GL	Berlin / Tegel / East	DEU	ms	1850
322.0	NG	Powidz	POL	ms	1310
330.0	OB	Bratislava / M.R Stefanik / South	SVK	ms	1200
337.0	VRN	Vranje	SRB	ms	1726
343.0	GRA	Grazzanise (CE)	ITA	ms	1900
345.0	TZO	Trezzo sull"Adda (MI)	ITA	ms	1859
348.0	TPL	Topola	SRB	ms	1728
349.5	SZA	Solenzara	COR	ms	1728
350.0	DWN	Devnya For Varna	BUL	ms	1529
354.0	PAD	Paderborn / Lippstadt	DEU	ms	1840
355.0	OBR	Beograd / Obrenovac	SRB	ms	1746
362.0	L	Namest nad Oslavou	CZE	ms	1203
370.0	OTL	Bucuresti / Otopeni	ROU	ms	1723
375.0	GLA	Gland for Geneva / Cointrain	SUI	ms	1907

381.0	TEST	UNID	XUU	ms	1751
382.0	GAZ	Gazoldo degli Ippoliti (MN)	ITA	ms	1816
385.0	AVN	Vilnius	LTU	ms	1710
385.0	CSC	Cannes / Ile de Leirins	FRA	ms	1909
388.0	PZ	Portoroz	SVN	ms	1815
404.0	ZLA	Zilina	SVK	ms	1207
416.0	KUN	Kunovice	CZE	ms	1208
422.0	OSJ	Osijek	HRV	ms	1321
423.0	ZO	Nis / Zitoradja	SRB	ms	1754
426.0	BC	Bacau	ROU	ms	1602
428.0	TGM	Targu Mures / Vidrasau	ROU	ms	1707
429.0	B	Brno / Turany / Borek	CZE	ms	1209
434.0	KNE	Kunovice	CZE	ms	1210
437.0	NP	Tomaszow-Mazowiecki / Porter	POL	ms	1705
438.0	B	Bratislava / M.R Stefanik / Barka	SVK	ms	1211
458.0	LP	Chernyakhovsk	KAL	ms	1703
341.0	BZ	Biarritz / Bayonne / Anglet	FRA	mt	2001
345.0	LN	Lannion / Servel	FRA	mt	2016
348.0	CL	Cahors / Lalbenque	FRA	mt	2148
374.0	BGC	Bergerac / Roumaniere	FRA	mt	2109
316.0	TNJ	Tounj	HRV	my	1952
325.0	VG	Zagreb / Pleso / Velika Gorica	HRV	my	2013
345.0	IGL	Ingolstadt	DEU	my	1717
400.0	MSW	Munchen	DEU	my	2115
410.0	SI	Salzburg	AUT	my	0112
412.0	FS	Sliac	SVK	my	0132
426.0	MIQ	Mike for Ingolstadt	DEU	my	1719
438.0	K	Praha Kbely / Kalda	CZE	my	1730
438.0	KO	Rijeka / Krk / Kozala	HRV	my	1735
445.0	TU	Tuzla	BIH	my	2354
450.0	PDV	Plovdiv	BUL	my	2135
344.0	WCK	Wick	SCT	px	2210
395.0	FOY	Foynes for Shannon	IRL	px	2100
421.0	GE	Madrid / Grinon	ESP	px	2104
431.0	KBA	Karlsruhe / Baden Baden	DEU	px	1951
290.0	ONL	Liege / Bierset	BEL	rb	1333
323.0	ONC	Charleroi / Gosselies	BEL	rb	1327
326.0	LLS	Lelystad	HOL	rb	1326
332.0	NV	Amsterdam / Schiphol	HOL	rb	1324
369.0	PS	Rotterdam Locator	HOL	rb	1134
382.0	FW	Frankfurt / Raunheim	DEU	rb	2032
386.0	STD	Stad Aan Het Haringvliet	HOL	rb	1140
388.5	CH	Amsterdam / Schiphol	HOL	rb	1147
395.0	OA	Amsterdam / Schiphol / Assendelft	HOL	rb	1148
400.0	BRZ	Rijeka / Krk / Breza	HRV	rb	2143
404.5	RR	Rotterdam Locator	HOL	rb	1152
417.0	CVT	Madrid / Cuatro Vientos	ESP	rb	2147
324.0	AS	Kemi / Tornio	FIN	re	1731

370.0	PSA	Spessart	DEU	re	1927
373.0	KEM	Kemi-Tornio / Hirmula	FIN	re	1710
379.0	EB	St Etienne / Boutheon	FRA	re	2101
380.0	RQ	Quimper / Pluguffan	FRA	re	2012
381.0	RG	Rygge / Tune	NOR	re	1919
398.0	LRN	Lorquin / Xouaxange	FRA	re	1851
404.0	AGO	Angouleme / Brie Champniers	FRA	re	1905
426.0	SH	Shobdon	ENG	re	1857
350.0	BLA	Cerrione (BI)	ITA	wb	0007
351.0	BSC	Brive / Souillac	FRA	wb	0012
351.0	CST	Costix for Palma De Mallorca	BAL	wb	0024
351.0	ISI	Iasi	ROU	wb	0020
351.0	PL	Perpignan / Rivesaltes	FRA	wb	0015
353.0	BNA	Beni Amrane	ALG	wb	2325
353.0	BN	Basle / Mulhouse / Habsheim	FRA	wb	2323
354.0	NG	Nimes / Garons	FRA	wb	2337
357.5	KG	Sarajevo / Butmir / Kobiljaca	BIH	wb	2310
358.0	BRS	Biscarosse / Parentis	FRA	wb	2325
358.0	MSE	Munchen	DEU	wb	2217
358.0	RNN	Roanne / Renaison	FRA	wb	2204
359.0	RK	Cerklje	SVN	wb	2253
360.0	LA	Kraljevo	SRB	wb	2254
360.0	O	Oradea	ROU	wb	2226
364.0	PU	Pau / Pyrenees	FRA	wb	2244
365.0	RB	Ajaccio / Campo del Oro	COR	wb	2216
367.0	ASM	Clermont-Ferrand / Auvergne	FRA	wb	2254
368.0	TLB	Toulouse / Blagnac	FRA	wb	2231
369.0	BP	Bastia / Poretta	COR	wb	1105
369.0	CM	Avignon / Caumont	FRA	wb	2225
369.0	VRS	Vrsar	HRV	wb	2249

## FREQUENCIES REVISITED - Progress Statistics

(Please see the explanation below)

**THEN Barn Door**  
**NOW Barn Door**

CLE234 - 190-1740 kHz - 27.07.2018 - 30.07.2018  
CLE253 - 190-1740 kHz - 21.02.2020 - 24.02.2020

Listener	Av km		Total km x 1000	Total km x 1000	NDBs		Max km	
	THE	Av km	1000	1000	THE	NDBs	THE	Max
	N	NOW	THE	NOW	N	NOW	N	NOW
<b>CZE ms</b>	486	587	49	58	100	99	1355	2771
<b>CZE my</b>	398	451	27	24	67	54	1180	1222
<b>DEU je</b>	487	530	38	52	78	98	1599	1641
<b>ENG bk</b>	191	191	11	10	58	55	564	451
<b>ENG hh</b>	395	475	23	33	59	69	2661	2620

<b>HOL rb</b>	376	539	27	54	73	100	1925	3010
<b>ITA wb</b>	383	690	3	30	7	44	673	3345
<b>SCT ds</b>	682	923	53	74	78	80	2258	2601
<b>Averages:</b>	425	548	29	42	65	75	1527	2208
<b>% Increase:</b>		29		45		15		45

Listener	Av km		Total km x		NDBs		Max km	
	THE	Av km N NOW	1000 THE	1000 NOW	THE	NDBs N NOW	THE	Max km N NOW
<b>ENG ap</b>		627		63		100		4562
<b>ENG me</b>		945		57		60		1904
<b>ENG mt</b>		526		19		37		1682
<b>ENG px</b>		487		40		82		2627
<b>ENG re</b>		586		59		100		2627
<b>SCT I3</b>		792		48		61		1892
<b>Averages:</b>		660		48		73		2549
<b>% Increase:</b>								

Av. km = Average distance from listener to NDB for all their loggings  
 Total km = Sum of distances from listener to NDBs for all their loggings  
 NDBs = Number of NDBs logged  
 Max km = Maximum distance from listener to an NDB logged  
 (UNIDs are not included)

#### Explanation:

We ENJOY Listening Events, but their real value is to encourage us to improve our knowledge of our hobby, our listening techniques, our receivers and aerals, etc. Many of our CLEs re-use the same targets (frequencies, etc.) after a year or so. This can provide each of us with an excellent way of measuring our personal progress by comparing our results THEN with our corresponding results NOW.

**The upper table** shows statistics for listeners who took part in both the events.  
**The bottom lines** compare the general conditions found during the two events.

Each listener's own results also depend, of course, on many other things, such as changes in receivers or aerals, time available for listening, use of recording equipment and maybe a move of QTH, as well as progress made through listening practice.

Comparing the results between individual listeners is not very meaningful - we each have so many unavoidable things that affect our ability to hear NDBs; where we and they happen to be, whether we are in a city or in wide open spaces or by the sea, our spending limit, how long we are able to devote to listening, etc.