



AZR	428.0	GC	Santa Cruz de Graciosa							01			02	02		02
BIH	425.0	DNC	Mostar		00	02		01	00			23				02
CAN, NL	250.0	YMH	Mary's Harbour											01		
CZE	258.0	N	Ostrava / Mosnov / Nada		19	02		22								
CZE	429.0	B	Brno / Turany / Borek		01	01	00	20	02							
CZE	432.0	PK	Pardubice / Prvek	20	20	14	20	01	21		23	01	01	00	02	23
CZE	434.0	KNE	Kunovice		00	22		01								
CZE	438.0	K	Praha Kbely / Kalda	20	20	14	23	03	02		23		02	02		23
DEU	425.0	ERT	Erfurt	20	21	00	12	11	21		01	22	00	21	02	00
DEU	426.0	MIQ	Mike for Ingolstadt	20	20	14	18	10	21		23	21	02	21	02	23
DEU	427.0	BRU	Braunschweig		20	02	12	11	03		00		00	02	00	23
DEU	429.0	OBI	Oberpfaffenhofen		01	01	01	01					00			00
DEU	431.0	KBA	Karlsruhe / Baden Baden		20	21	23	01	02		23	01	02	22	02	00
DNK	423.0	FE	Odense / Beldringe		01	21	20	11	21		00	23	01	21	02	01
ENG	421.0	BUR	Burnham		00			01	02		11	15	17	11	23	02
ENG	423.0	CWL	Cranwell			03					11	15	17	11	19	02
ENG	426.0	SH	Shobdon					03			11	15	17	01	19	02
ENG	433.5	HEN	Henton					01	02		11	15	17	11	00	02
ESP	420.0	SPP	Sevilla / San Pablo					01				05	03	02	02	03
ESP	421.0	GE	Madrid / Grinon		00	02	02	23	02		01	00	03	20	02	23
ESP	422.0	PAM	Pamplona			02		02			01	23	03	23	02	01
ESP	424.0	RUS	Reus		01	00						04	02	01	00	00
ESP	433.0	JER	Jerez			02		03			01	03		02	02	01
ESP	433.0	VON	Vigo		01		00				22	23	02	00	02	00
EST	432.0	G	Amari					01					00	02		00
FRA	423.0	TS	Toulouse / Blagnac		01	01		02				03		02	01	22
FRA	424.0	LOE	Limoges / Bellegarde			02		03	02			04	02	00	02	01
FRA	424.0	PHG	Phalsbourg / Bourscheid		00	20	20	01	00		22	22	21	02	00	02
FRA	426.0	CTS	Castets			03						02				23
FRA	427.0	RY	Royan / Medis		01	02		03	01		01	22	03	23	02	00
FRA	428.0	BST	Lanveoc / Poulmic			02	00	01	01		11	21	22	03	22	02
FRA	428.0	CTX	Chateauroux / Deols		01	02	00	03	01		01	22	03	00	02	01
FRA	428.0	MUS	Nice / Cote d'Azur			01		02	02						00	00
FRA	430.0	SN	St Yan		00	21	23	01	01		23	21	02	00	02	00
FRA	432.0	PRD	Peyrehorade		01	02		02				23	01	02	02	23
FRA	434.0	MV	Melun / Villaroche		22	21	23	01	21		11	23	00	02	00	02
GEO	430.0	LU	Batumi											02		00
HNG	422.0	O	Szolnok / Opera				22									
HNG	436.0	SME	Sarmellek / Balaton		21	01	00	01	22		00		02	02		01
HRV	420.0	GS	Pula		19	21	01	01			01		02	02	23	02
HRV	421.0	SAL	Zadar / Sali		00	21		02	22				02	02	00	23
HRV	422.0	OSJ	Osijek	20	19	01	20	01	22		23	22	02	02	23	01
HRV	424.0	PIS	Zagreb / Pleso / Pisarovina	20	20	21	20	01	21		01	00	22	21	02	23
HRV	429.0	LOS	Losinj	20	20	01	21	01	22		01	01	01	22	02	00
HRV	433.0	CRE	Cres	20	00	21	20	01	01		01	01	02	22	02	23
HRV	438.0	KO	Rijeka / Krk / Kozala	20	20	22	23	02	02		21	01	01	22	02	00
ITA	425.0	MMP	Gallarate / Malpensa (VA)		01	21	00	03			00	03	02	00	02	23
ITA	426.0	SOR	Sorrento (NA)			00								01		00



ENG	England		1	1		3	2		4	4	4	4	4	4	4	4	3	
ESP	Spain		3	4		2	4	1		4	6	5	4	5	6	4	6	
EST	Estonia					1						1		1		1		
FRA	France		7	11		5	10	8		3	6	10	8	7	9	9	10	9
GEO	Georgia													1			1	
HNG	Hungary		1	1		2	1	1			1		1		1		1	
HRV	Croatia	5	7	7		6	7	6			6	5	7	4	7	7	4	7
ITA	Italy		1	2		1	1				1	1	1	1	1	2	1	1
LBY	Libya					1												
MKD	Macedonia		1	1		1	1	1					1					1
MNE	Montenegro (Yugoslavia)		1	1		1	1											1
NIR	Northern Ireland					1					1	1	1	1	1		1	1
NOR	Norway					1												1
POL	Poland		1	1		1	1											
POR	Portugal					1					1	2	2	1	2	1	1	1
ROU	Romania		3	3		1	3	1			1	1	2	1	2	1		2
RUS	Russia (European)		1				2						1		1			2
SCT	Scotland					1	1				1	1	1	1	1	1	1	1
SRB	Serbia (Yugoslavia)	1	4	3		2	4	1			1		2		2	2		3
SVK	Slovakia	3	3	3		3	2	3			3	1	3	2	1	3		2
SWE	Sweden	1	2	2		2	3	2			2	1	2	1	3	3	1	2
XOE	Int Waters: Europe		1	1		1	1	1			2	2	3	1	2	2	1	3
XUU	UNID (No idea where)		1	1			1										1	
Cou	Cou-Name	CZE	CZE	CZE	DEU	DEU	DEU	ENG	ENG	ENG	ENG	ENG	ENG	ENG	HOL	SCT	SCT	
		lk	my	ze	bd	hw	je	bk	hh	im	me	re	yk	rb	ds	lw		

## LISTENING TIMES:

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

UTC (hh)	CZE lk	CZE my	CZE ze	DEU bd	DEU hw	DEU je	ENG bk	ENG hh	ENG im	ENG me	ENG re	ENG yk	HOL rb	SCT ds	SCT lw
00:00 - 00:59		15	7	6	2	5		8	4	8	14		22	7	13
01:00 - 01:59		12	8	7	30	6		14	5	8	2		9		30
02:00 - 02:59			20	1	9	10			3	22		54	7		4
03:00 - 03:59			2		8	1			8	8					5
04:00 - 04:59									2						
05:00 - 05:59									2						
06:00 - 06:59															
07:00 - 07:59															
08:00 - 08:59															
09:00 - 09:59													5		
10:00 - 10:59					1										
11:00 - 11:59					4		6			5					
12:00 - 12:59				2										1	
13:00 - 13:59															
14:00 - 14:59			3												
15:00 - 15:59								5							

16:00 - 16:59									5							
17:00 - 17:59				1												
18:00 - 18:59		6		1	1				1			3				
19:00 - 19:59	13	13	3	7	2							1		1		
20:00 - 20:59	3	5	12	1	1	10			4	4		4		1		
21:00 - 21:59		1	2	2	1	5		1	3	7	3	8			10	
22:00 - 22:59				11	6	2			9	6	1	4		9	17	10
23:00 - 23:59																
UTC (hh)	CZE	CZE	CZE	DEU	DEU	DEU	ENG	ENG	ENG	ENG	ENG	ENG	HOL	SCT	SCT	
	lk	my	ze	bd	hw	je	bk	hh	im	me	re	yk	rb	ds	lw	
NDBs	16	52	57	39	65	39	7	44	46	55	36	54	54	35	62	

**NDB COUNTS, BY FREQUENCY:**

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

NDBs	QRG	CZE	CZE	CZE	DEU	DEU	DEU	ENG	ENG	ENG	ENG	ENG	ENG	HOL	SCT	SCT	NDBs
		lk	my	ze	bd	hw	je	bk	hh	im	me	re	yk	rb	ds	lw	
1	250.0													1			1
1	255.0		1			1											1
1	256.0		1	1		1											1
1	258.0		1	1		1											1
1	258.5					1										1	1
10	420.0	1	4	6	3	9	1		4	4	6	3	5	4	3	8	10
5	421.0	1	5	4	3	5	5	1	4	3	5	3	5	5	3	5	5
3	422.0	1	1	2	2	2	1	2	2	2	2	1	2	2	1	2	3
5	423.0	1	3	5	2	2	2	1	3	4	2	2	4	5	3	2	5
5	424.0	1	3	4	2	3	3	1	2	5	4	4	3	5	4	4	5
5	425.0	2	4	4	3	5	3		4	3	5	3	3	4	3	5	5
7	426.0	2	3	5	2	4	2	1	3	5	5	3	5	4	4	4	7
3	427.0		2	2	1	3	2		2	1	1	2	3	3	1	2	3
5	428.0		2	4	3	4	4	1	4	3	3	3	4	5	2	5	5
1	428.5										1					1	1
3	429.0	1	3	3	3	3	2		1	1	2	1	1	1	1	2	3
5	430.0		3	1	1	3	1		1	1	2	1	3	1	1	3	5
2	431.0		1	1	1	2	2		2	2	2	2	2	2	2	2	2
6	432.0	1	3	3	2	5	2		1	3	4	1	3	1	2	4	6
3	433.0	1	2	2	2	2	1		3	3	2	2	3	3	2	3	3
1	433.5					1	1	1	1	1	1	1	1	1	1	1	1
3	434.0		3	2	2	2	2	1	2	2	2	1	2	2	1	2	3
3	435.0		1	1	1	1				1	1		1	2		2	3
1	436.0		1	1	1	1	1		1		1		1			1	1
1	437.0		1	1	1	1											1
4	438.0	4	4	4	4	3	4		4	2	4	3	3	3	1	3	4

NDBs	QRG	CZE lk	CZE my	CZE ze	DEU bd	DEU hw	DEU je	ENG bk	ENG hh	ENG im	ENG me	ENG re	ENG yk	HOL rb	SCT ds	SCT lw	NDBs
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**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
422.0	O	Szolnok / Opera		HNG	bd	2220
420.0	BT	Batajnica		SRB	hw	2350
430.0	MB	Chemukha		RUS	hw	2310
432.0	ZAR	Zwara		LBY	hw	0240
432.0	HMB	Hammam Bou Hadjar for Oran		ALG	im	0359
420.0	PI	Madalena / Pico Island		AZR	lw	0335
435.0	ER	Yegorlykская		RUS	lw	0035
430.0	TA	UNID		XUU	my	0051
250.0	YMH	Mary's Harbour	NL	CAN	rb	0043

## FREQUENCIES REVISITED - Progress Statistics

(Please see the explanation below)

**THEN**  
**NOW**

CLE230 - 240-259.9 kHz / 420-439.9 kHz - 23.03.2018 - 26.03.2018  
CLE246 - 240-259.9 kHz / 420-439.9 kHz - 26.07.2019 - 29.07.2019

Listener	Av km		Total km x	Total km x	NDBs		Max km	Max km
	THE	Av km	1000	1000	THE	NDBs	THE	km
	N	NOW	THE	NOW	N	NOW	N	NOW
CZE lk	589	487	18	8	30	16	1086	976
CZE my	881	729	61	38	69	52	2350	1916
CZE ze	907	770	60	44	66	57	2262	2082
DEU bd	862	769	46	30	53	39	1903	1903
DEU hw	1191	1008	106	66	90	65	4094	2192
DEU je	1058	902	72	35	68	39	2249	1834
ENG bk	1074	277	50	2	47	7	3349	610
ENG hh	1310	1092	97	48	74	44	3425	2533
ENG me	1328	1286	61	71	46	55	3475	2263
ENG yk	1187	1269	59	69	50	54	2051	3416
HOL rb	1151	1113	92	60	80	54	3551	3972
SCT ds	1359	1226	64	43	47	35	2382	1942
<b>Averages:</b>	1075	911	65	43	60	43	2681	2137
<b>% Increase:</b>		<b>-15</b>		<b>-35</b>		<b>-28</b>		<b>-20</b>

Listener	Av km		Total km x	Total km x	NDBs		Max km	Max km
	THE	Av km N NOW	1000 THE	1000 NOW	THE	NDBs N NOW	THE	km N NOW
ENG im		1244		57		46		3871
ENG re		976		35		36		1976
SCT lw		1652		102		62		3712
<b>Averages:</b>		1291		65		48		3186
<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 aerials, etc. Many of our CLEs re-use the same narrow range of frequencies 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 aerials, 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.