NDB LIST CLE No. 245 190 - 1740 kHz 21.06.2019 - 24.06.2019

Listening for NDBs located in the N.. D.. and B.. Radio Countries

COMBINED RESULTS
Rest of the World

For overall statistics, please see the covering email.

Reporters:

AUS, SA	rw	Bob Warren, Blakeview	
AUS, TA	et	Edgar Twining, Moonah	
CAN, NS	vm	Vernon Matheson, Truro	
HWA	mx	Mike Tuggle, Kaneohe, Hawaii	
NZL	bk	Brian Keyte, via Kiwi-SDR at 'Te Kauwhata', NZL	(rNZLtk / RF72no)
USA, AZ	sr	Steve Ratzlaff, Near Sahuarita, SE Arizona	
USA, CO	ac	Anthony Casorso, Westminster	
USA, IL	dt	Dave Tomasko, Galena	
USA, IL	fy	Joe Farley, Downers Grove	
USA, MO	dp	Dick Palmer, Wentzville	
USA, NE	dn	Don Tomkinson, Gothenburg	
USA, NH	jc	John Collins, Charlestown	
USA, NJ	ge	George Muha, Cream Ridge	
USA, TX	du	Douglas Springfield, New Chapel Hill, NE Texas	
USA, UT	mu	Mark Moulding, Ogden, Northern UT	
USA, WA	jb	Joe Miller, via Kiwi-SDR at 'Bellingham, WA', USA, WA	(rWAbe / CN88rs)
USA, WA	so	Steven O'Kelley, The Dungeon, Nr Seattle	
USA, WI	z1	Steve Zimmerman, while at Vernon, WI	

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 below
please let me know
(ndbcle'at'gmail.com - replace the 'at' by an @ symbol)

Beacons Heard

Beacons are shown in kHz order within each country
The numbers shown within the table are the times in 'hh' UTC that the beacons were logged.
(e.g. 01 indicates logged between 01:00-01:59 UTC).

Cou, S/P	QRG	ID	Name	AUS SA rw	AUS TA et	CAN NS vm	HWA mx	NZL bk	USA AZ sr	USA CO ac	USA IL dt	USA IL fy	USA MO dp	USA NE dn	USA NH jc	USA NJ ge	USA TX du	USA UT mu	USA WA jb	USA WA so	USA WI z1
AUS, NN	233.0	AYE	Ayers Rock	09				13													
AUS, NN	335.0	AS	Alice Springs	09																	
AUS, NN	356.0	TN	Tindal	09	11																
AUS, NN	401.0	MGD	Maningrida		12																
AUS, NW	206.0	BNA	Ballina		11																
AUS, NW	209.0	SCO	Scone		11																

AUS, NW	221.0	WG	Wagga Wagga		11																
AUS, NW	224.0	WMD	West Maitland		11			13													
AUS, NW	239.0	WOL	Wollongong		11			13													
AUS, NW	242.0	PKS	Parkes	09	11			13													
AUS, NW	251.0	DU	Dubbo	09	11																
AUS, NW	260.0	IVL	Inverell	09	11																
AUS, NW	272.0	LHI	Lord Howe Island		10																
AUS, NW	293.0	COM	Cooma		11			14													
AUS, NW	299.0	CWR	Cowra	09	11			14													
AUS, NW	305.0	GTH	Griffith	02	02			14													
AUS, NW	332.0	BHI	Broken Hill	09	11			13													
AUS, NW	341.0	TW	Tamworth	08	11																
AUS, NW	347.0	RIC	Richmond	09	11			13													
AUS, NW	359.0	NWA	Nowra	09	11			13													
AUS, NW	365.0	WLM	Williamtown	09	10			13													
AUS, NW	374.0	WLG	Walgett	09	10																
AUS, NW	383.0	BTH	Bathurst	09	11																
AUS, NW	386.0	QDI	Quirindi	09	11																
AUS, NW	389.0	BKE	Bourke	09	11																
AUS, NW	389.0	GFN	Grafton	09	11			13													
AUS, NW	392.0	MOR	Moree	09	11																
AUS, NW	395.0	CBA	Cobar	08	10																
AUS, NW	395.0	MER	Merimbula	08	11			13													
AUS, NW	395.0	PMQ	Port MacQuarie		11			13													
AUS, NW	398.0	MDG	Mudgee	08	11																
AUS, NW	407.0	GDH	Gunnedah	09	11																
AUS, NW	407.0	GLB	Gouldburn	09	09																
AUS, NW	413.0	NBR	Narrabri	09	11																
AUS, NW	416.0	BK	Bankstown		10																
CAN, BC	200.0	UAB	Anahim Lake						11	10	09						10	08		06	
CAN, BC	200.0	YJ	Victoria																05	01	
CAN, BC	203.0	YBL	Campbell River																	01	
CAN, BC	203.0	ZKI	Kitimat																	06	
CAN, BC	206.0	EF	"Champion" Castlegar															08		04	
CAN, BC	214.0	LU	"Cultus" Abbotsford															08	05	01	
CAN, BC	218.0	PR	Prince Rupert										05							06	
CAN, BC	223.0	YKA	Kamloops															08		01	
CAN, BC	227.0	CG	Castlegar															09		04	
CAN, BC	230.0	YD	Smithers															08		06	
CAN, BC	236.0	YZA	Ashcroft							10	09							08		01	
CAN, BC	242.0	XC	Cranbrook							10								08		04	
CAN, BC	242.0	ZT	Port Hardy															09		07	
CAN, BC	248.0	ZZP	"Dead Tree Point" Sandspit															08		07	
CAN, BC	251.0	YCD	Nanaimo				10		11									08	05	01	
CAN, BC	257.0	LW	Kelowna															08		05	
CAN, BC	260.0	YSQ	Atlin				10													07	
CAN, BC	266.0	VR	Vancouver															08	05	01	
CAN, BC	269.0	YK	"Brilliant" Castlegar															08		05	
CAN, BC	272.0	XS	Prince George															08		07	
CAN, BC	290.0	YYF	Penticton															08	07	05	
CAN, BC	293.0	MB	"Mill Bay" Victoria																05	01	

CAN, BC	302.0	6K	Vernon																03	05	
CAN, BC	312.0	UNT	Naramata (Penticton)																	05	
CAN, BC	325.0	YJQ	Bella Bella (Campbell Island)																	07	
CAN, BC	326.0	DC	Princeton															08	05	01	
CAN, BC	332.0	WC	White Rock (Abbotsford)																05	01	
CAN, BC	332.0	XT	Terrace																	07	
CAN, BC	344.0	XX	Abbotsford				10											09	05	01	
CAN, BC	350.0	NY	Enderby				10		11	10	09			05			10	08	05	01	
CAN, BC	356.0	ON	"Okanagan" Penticton																	01	
CAN, BC	359.0	YAZ	Tofino															09		01	
CAN, BC	359.0	YQZ	Quesnel															08	07	01	
CAN, BC	368.0	SX	Skookum (Cranbrook)							10							10	08		05	
CAN, BC	368.0	ZP	Sandspit				10				09						10	08	05	07	
CAN, BC	374.0	EX	Rutland (Kelowna)															08		05	
CAN, BC	378.0	AP	Active Pass (Mayne Island)																05	01	
CAN, BC	382.0	YE	Fort Nelson															08		06	
CAN, BC	382.0	YPW	Powell River																	01	
CAN, BC	389.0	YWB	Kelowna															09		01	
CAN, BC	391.0	TK	Telkwa (Smithers)																	07	
CAN, BC	394.0	DQ	Dawson Creek																	07	
CAN, BC	400.0	QQ	Comox						11	10	09						10	09	05	01	
CAN, BC	414.0	YZK	Harper Ranch (Kamloops)																	05	
CAN, NB	207.0	CL	Charlo			23									00						
CAN, NB	212.0	SJ	Saint John			23									00						
CAN, NB	224.0	QM	Moncton			23									01						
CAN, NB	304.0	ZQM	Riverview (Moncton)			23									03						
CAN, NB	326.0	FC	Fredericton			23									01	02					
CAN, NB	363.0	1F	"Manta" Bathurst			01									03						
CAN, NB	387.0	6E	Grand Manan			23									02						
CAN, NB	397.0	ZST	"Alpine" Saint John			23									01						
CAN, NB	520.0	F9	Chatham (Miramichi)			23									01						
CAN, NL	233.0	UM	Churchill Falls			03									01						
CAN, NL	270.0	ZNF	"Wabana" Saint John"s			00															
CAN, NL	280.0	QX	Gander			23									01						
CAN, NL	281.0	CA	Cartwright			01									01						
CAN, NL	340.0	ZJT	Stephenville			23									07						
CAN, NL	346.0	1D	Charlottetown			05															
CAN, NL	356.0	AY	St Anthony			00									01						
CAN, NL	358.0	NL	Signal Hill (Saint John"s)			01															
CAN, NL	378.0	HO	Hopedale			01															
CAN, NL	396.0	JC	Rigolet			01									01						
CAN, NS	206.0	QI	Yarmouth			23									00	01					
CAN, NS	230.0	AC	Pleasant Lake (Yarmouth)			23									01						
CAN, NS	263.0	QY	Sydney			23									01						
CAN, NS	266.0	YZX	Greenwood			23									01						
CAN, NS	338.0	5Y	Trenton												07						
CAN, NS	341.0	GF	Aylesford (Greenwood)			23									07						
CAN, NS	364.0	ZHZ	"Split Crow" Halifax			23									01						
CAN, NS	385.0	ZNS	"Midtown" Halifax			23									02						
CAN, NT	274.0	FR	Fort Resolution																	07	
CAN, NT	356.0	ZF	Yellowknife															08		06	

CAN, NT	375.0	FS	Fort Simpson															08		06	
CAN, NU	204.0	YFY	Forbay - Iqaluit			03															
CAN, NU	208.0	YSK	Sanikiluaq			04															
CAN, NU	277.0	YLC	Kimmirut			03															
CAN, NU	329.0	YEK	Arviat			05						06						06			
NCL	305.0	KQ	Kone		12																
NCL	325.5	NW	La Tontouta		13			17													
NCL	342.0	BL	Ile Art		11																
NCL	354.0	FND	La Tontouta		11			14													
NCL	388.0	MR	Mare		13																
NCL	402.0	OA	Ouvea		11																
NFK	260.0	NF	Anson"s Point (Norfolk Is)	08	10			15													
NRU	355.0	NI	Nauru		11			13													
NZL	226.0	FY	Ferry		11																
NZL	226.0	KK	Kerikeri		12			15													
NZL	230.0	AP	Taupo		11			15													
NZL	238.0	KT	Kaitaia		11			15													
NZL	242.0	PP	Paraparaumu		11			15													
NZL	254.0	AS	Ashburton		11			05													
NZL	254.0	WI	Waiuku		11			15													
NZL	274.0	GB	Great Barrier Island		10			14													
NZL	278.0	WS	Westport					14													
NZL	310.0	HK	Hokitika		11			14													
NZL	314.0	RD	Miranda		12			14													
NZL	322.0	CI	Chatham Islands		11			14													
NZL	326.0	WR	Whangarei		11			14													
NZL	346.0	MO	Manapouri		11																
NZL	346.0	TG	Tauranga		11			14													
NZL	350.0	KI	Kaikoura		11			14													
NZL	350.0	SY	Surrey					14													
NZL	358.0	MI	Mosgiel		11																
NZL	358.0	NL	Newlands		11			14													
NZL	362.0	WK	Whakatane		11			14													
NZL	366.0	SF	Springfield		10			15													
NZL	366.0	TU	Timaru		11			13													
NZL	378.0	HL	Henley		12			13													
NZL	382.0	WU	Wanganui		12			15													
NZL	386.0	LX	Alexandra		11			13													
NZL	390.0	HN	Hamilton		11			15													
NZL	394.0	BE	Berridale		10																
NZL	1630.0	TM	Taumarunui					15													
USA, DE	248.0	IL	"Hadin" Wilmington												16						
USA, NC	198.0	DIW	Dixon											08	16						
USA, NC	384.0	JB	"Jigel" Lumberton												06						
USA, NE	233.0	OKS	Oshkosh							23	09		17								
USA, NE	257.0	JYR	York							23	00	21	17								
USA, NE	275.0	HIN	"Whitney" Chadron							23			17					09			
USA, NE	293.0	FBY	Fairbury							00	00	21	17								21
USA, NE	305.0	OI	"Tommi" South Sioux City								00		17								
USA, NE	314.0	VTN	Valentine							14	10		17								
USA, NE	329.0	PMV	Plattsmouth							14	16	21	17								21

Cou, S/P	QRG	ID	Name	AUS SA rw	AUS TA et	CAN NS vm	HWA mx	NZL bk	USA AZ sr	USA CO ac	USA IL dt	USA IL fy	USA MO dp	USA NE dn	USA NH jc	USA NJ ge	USA TX du	USA UT mu	USA WA jb	USA WA so	USA WI z1
USA, NE	347.0	AFK	Nebraska City							14	00		21	17							
USA, NE	347.0	YK	"Cagur" Yankton											17							
USA, NE	356.0	ODX	Ord							00	10			17							
USA, NE	359.0	GGF	Grant							00	09			17				09			
USA, NE	362.0	CD	"Dawes" Chadron							00											
USA, NE	380.0	GR	"Sancy" Grand Island							19				17							
USA, NE	383.0	CNP	Chappell							00	09			17						07	
USA, NE	385.0	LN	"Potts" Lincoln											17							
USA, NE	389.0	CSB	"Harry Strunk" Cambridge							00	16			17			10	09			
USA, NE	392.0	FMZ	"Beklof" Fairmont							00	10		21	17							
USA, NE	400.0	AHQ	Wahoo							14	00		21	17							
USA, NE	407.0	PLT	"Platte Center" Columbus											17							
USA, NE	414.0	GRN	Gordon							00	09			17							
USA, NE	416.0	LB	"Panbe" North Platte							00	09			17							
USA, NH	209.0	MJ	Lawrence Corner												01						
USA, NH	216.0	CO	"Epsom" Concord												01						
USA, NH	328.0	LC	"Blnap" Laconia			02									01						
USA, NJ	214.0	TE	Torby													16					
USA, NJ	254.0	CAT	Chatham													16					
USA, NJ	363.0	RNB	"Rainbow" Millville			08									01	16					
USA, NM	251.0	SV	"Cozey" Silver City						20												
USA, NM	278.0	CEP	"Capitan" Ruidoso						11	11											
USA, NM	305.0	RO	"Topan" Roswell						11	11	10			06			11	11			
USA, NM	351.0	AE	"Dudle" Albuquerque							10											
USA, NM	402.0	CV	Carlz Carlsbad						11	10							11				
USA, NM	414.0	ATS	Artesia						11	10							11	10			
USA, NY	209.0	GF	"Ganse" Glens Falls												01						
USA, NY	275.0	BBN	Babylon													16					
USA, NY	335.0	SW	"Neely" Newburgh												01	02					
USA, NY	356.0	HEU	"Hunter" Schenectady												01						
USA, NY	400.0	FO	Squir' Westhampton Beach													06					
USA, NY	407.0	FR	"Frikk" Farmingdale												01	16					
USA, NY	523.0	JJH	Johnstown												01	06					

COUNTRIES HEARD:

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

Cou	Cou-Name	AUS SA rw	AUS TA et	CAN NS vm	HWA mx	NZL bk	USA AZ sr	USA CO ac	USA IL dt	USA IL fy	USA MO dp	USA NE dn	USA NH jc	USA NJ ge	USA TX du	USA UT mu	USA WA jb	USA WA so	USA WI z1
AUS	Australia, NN	3	2			1													
AUS	Australia, NW	22	31			13													
CAN	Canada, BC				5		4	6	5			2			5	27	15	44	
CAN	Canada, NB			9									9	1					
CAN	Canada, NL			10									6						
CAN	Canada, NS			7									8	1					
CAN	Canada, NT															2		3	

Cou	Cou-Name	AUS SA rw	AUS TA et	CAN NS vm	HWA mx	NZL bk	USA AZ sr	USA CO ac	USA IL dt	USA IL fy	USA MO dp	USA NE dn	USA NH jc	USA NJ ge	USA TX du	USA UT mu	USA WA jb	USA WA so	USA WI z1
CAN	Canada, NU			4						1						1			
NCL	New Caledonia		6			2													
NFK	Norfolk Island	1	1			1													
NRU	Nauru		1			1													
NZL	New Zealand		25			24													
USA	USA, DE													1					
USA	USA, NC												1	2					
USA	USA, NE							17	15		6	20			1	3		1	2
USA	USA, NH			1									3						
USA	USA, NJ			1									1	3					
USA	USA, NM						5	5	1			1			3	2			
USA	USA, NY												5	5					

LISTENING TIMES:

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

UTC (hh)	AUS SA rw	AUS TA et	CAN NS vm	HWA mx	NZL bk	USA AZ sr	USA CO ac	USA IL dt	USA IL fy	USA MO dp	USA NE dn	USA NH jc	USA NJ ge	USA TX du	USA UT mu	USA WA jb	USA WA so	USA WI z1
00:00 - 00:59			2				9	5				3						
01:00 - 01:59			5									22	1				19	
02:00 - 02:59	1	1	1									2	2					
03:00 - 03:59			3									2				1		
04:00 - 04:59			1														3	
05:00 - 05:59			2		1						2					12	8	
06:00 - 06:59									1		1		3		1		7	
07:00 - 07:59												3				2	11	
08:00 - 08:59	5		1									1			23			
09:00 - 09:59	20	1						10							9			
10:00 - 10:59		9		5			9	4						6	1			
11:00 - 11:59		47				8	2							3	1			
12:00 - 12:59		6																
13:00 - 13:59		2			15													
14:00 - 14:59					15		4											
15:00 - 15:59					10													
16:00 - 16:59								2					7					
17:00 - 17:59					1						20							
18:00 - 18:59																		
19:00 - 19:59							1											
20:00 - 20:59						1												
21:00 - 21:59										6								2
22:00 - 22:59																		
23:00 - 23:59			17				3											
UTC (hh)	AUS SA rw	AUS TA et	CAN NS vm	HWA mx	NZL bk	USA AZ sr	USA CO ac	USA IL dt	USA IL fy	USA MO dp	USA NE dn	USA NH jc	USA NJ ge	USA TX du	USA UT mu	USA WA jb	USA WA so	USA WI z1
NDBs	26	66	32	5	42	9	28	21	1	6	23	33	13	9	35	15	48	2

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
362.0	CD	"Dawes" Chadron	NE	USA	**ac**	0038
351.0	AE	"Dudle" Albuquerque	NM	USA	**ac**	1055
1630.0	TM	Taumarunui		NZL	**bk**	1506
278.0	WS	Westport		NZL	**bk**	1444
350.0	SY	Surrey		NZL	**bk**	1455
347.0	YK	"Cagur" Yankton	NE	USA	**dn**	1708
385.0	LN	"Potts" Lincoln	NE	USA	**dn**	1715
407.0	PLT	"Platte Center" Columbus	NE	USA	**dn**	1719
401.0	MGD	Maningrida	NN	AUS	**et**	1255
206.0	BNA	Ballina	NW	AUS	**et**	1102
209.0	SCO	Scone	NW	AUS	**et**	1149
221.0	WG	Wagga Wagga	NW	AUS	**et**	1104
272.0	LHI	Lord Howe Island	NW	AUS	**et**	1032
416.0	BK	Bankstown	NW	AUS	**et**	1005
226.0	FY	Ferry		NZL	**et**	1104
305.0	KQ	Kone		NCL	**et**	1213
342.0	BL	Ile Art		NCL	**et**	1120
346.0	MO	Manapouri		NZL	**et**	1125
358.0	MI	Mosgiel		NZL	**et**	1143
388.0	MR	Mare		NCL	**et**	1317
394.0	BE	Berridale		NZL	**et**	1018
402.0	OA	Ouvea		NCL	**et**	1141
248.0	IL	"Hadin" Wilmington	DE	USA	**ge**	1639
384.0	JB	"Jigel" Lumberton	NC	USA	**ge**	0611
214.0	TE	Torby	NJ	USA	**ge**	1641
254.0	CAT	Chatham	NJ	USA	**ge**	1640
275.0	BBN	Babylon	NY	USA	**ge**	1644
400.0	FO	Squir' Westhampton Beach	NY	USA	**ge**	0623
209.0	MJ	Lawrence Corner	NH	USA	**jc**	0100
216.0	CO	"Epsom" Concord	NH	USA	**jc**	0101
338.0	5Y	Trenton	NS	CAN	**jc**	0750
209.0	GF	"Ganse" Glens Falls	NY	USA	**jc**	0101
356.0	HEU	"Hunter" Schenectady	NY	USA	**jc**	0123
335.0	AS	Alice Springs	NN	AUS	**rw**	0924
203.0	YBL	Campbell River	BC	CAN	**so**	0110
203.0	ZKI	Kitimat	BC	CAN	**so**	0647
312.0	UNT	Naramata (Penticton)	BC	CAN	**so**	0506
325.0	YJQ	Bella Bella (Campbell Island)	BC	CAN	**so**	0707
332.0	XT	Terrace	BC	CAN	**so**	0739
356.0	ON	"Okanagan" Penticton	BC	CAN	**so**	0129
382.0	YPW	Powell River	BC	CAN	**so**	0135
391.0	TK	Telkwa (Smithers)	BC	CAN	**so**	0723

394.0	DQ	Dawson Creek	BC	CAN	**so**	0718
414.0	YZK	Harper Ranch (Kamloops)	BC	CAN	**so**	0533
274.0	FR	Fort Resolution	NT	CAN	**so**	0703
251.0	SV	"Cozey" Silver City	NM	USA	**sr**	2020
270.0	ZNF	"Wabana" Saint John"s	NL	CAN	**vm**	0050
346.0	1D	Charlottetown	NL	CAN	**vm**	0511
358.0	NL	Signal Hill (Saint John"s)	NL	CAN	**vm**	0220
378.0	HO	Hopedale	NL	CAN	**vm**	0132
204.0	YFY	Forbay - Iqaluit	NU	CAN	**vm**	0310
208.0	YSK	Sanikiluaq	NU	CAN	**vm**	0446
277.0	YLC	Kimmirut	NU	CAN	**vm**	0355

FREQUENCIES REVISITED - Progress Statistics

(statistics from CLE217 were not available)

THEN	CLE217 - 190-1740 kHz - 24.03.2017 - 27.03.2017
NOW	CLE245 - 190-1740 kHz - 21.06.2019 - 24.06.2019

Listener	Av km THEN	Av km NOW	Total km x 1000 THEN	Total km x 1000 NOW	NDBs THEN	NDBs NOW	Max km THEN	Max km NOW
Averages:	0	0	0	0	0	0	0	0
% Increase:		0		0		0		0

Listener	Av km THEN	Av km NOW	Total km x 1000 THEN	Total km x 1000 NOW	NDBs THEN	NDBs NOW	Max km THEN	Max km NOW
AUS, SA rw		1167		30		26		2828
AUS, TA et		1906		126		66		5079
CAN, NS vm		704		23		32		2652
HWA mx		4434		22		5		4682
NZL bk		1275		54		42		4374
USA, AZ sr		1331		12		9		2543
USA, CO ac		802		22		28		2082
USA, IL dt		1265		27		21		3277
USA, IL fy		2189		2		1		2189
USA, MO dp		549		3		6		620
USA, NE dn		437		10		23		2688
USA, NH jc		690		23		33		1621
USA, NJ ge		336		4		13		910
USA, TX du		2130		19		9		3725
USA, UT mu		1382		48		35		2522
USA, WA jb		198		3		15		813
USA, WA so		600		29		48		1732
USA, WI z1		732		1		2		797
Averages:		1229		25		23		2507

% Increase:				

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.

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.

CLE245_Results_RoW.xls
bk/je - 26.06.2019