

**NDB LIST CLE No. 212** 270 - 319.9 kHz 28 - 31 Oct 2016, midday-midday local time

**COMBINED RESULTS  
REST OF THE WORLD**

For overall statistics, please see the covering email.

**Reporters:**

CAN	BC	bt	Brian Butler, Hazelton
CAN	BC	sm	Steve McDonald, Mayne Island
CAN	NS	vm	Vernon Matheson, Truro
HWA		mx	Mike Tuggle, Kaneohe, Hawaii
TWN		hf	Hans Fong, Daxi
USA	AZ	sr	Steve Ratzlaff, Near Sahuarita, SE Arizona
USA	CA	c9	Christoph Mayer, using remote Perseus at Stanford, CA
USA	CA	dn	Don Tomkinson, Upland
USA	CA	ir	Iden Rogers, Nr Grass Valley, 50 mi NNE of Sacramento
USA	CA	pa	Phil Atchley, Merced, Central California
USA	CO	ac	Anthony Casorso, Westminster
USA	FL	cg	Craig Cook, Oviedo
USA	IL	dt	Dave Tomasko, Galena
USA	IL	fy	Joe Farley, Downers Grove
USA	MD	ri	Rich Dalton, 3m NW of Newark, DE
USA	MI	jb	Joe Miller, Troy
USA	MN	gs	George Sherman, Apple Valley
USA	MO	dp	Dick Palmer, Foristell
USA	NE	ru	Rick Dau, Ralston, Omaha
USA	NH	jc	John Collins, Charlestown
USA	NJ	ge	George Muha, Cream Ridge
USA	NJ	rs	Bill Riches, Cape May
USA	TX	ch	Chuck Dobbins, Alpine
USA	TX	du	Douglas Springfield, New Chapel Hill, NE Texas
USA	WA	rt	Tom Rothlisberger, Brier
USA	WA	so	Steven O'Kelley, The Dungeon, Nr Seattle

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 and State/Province

The numbers shown within the table are the times in 'hh' UTC that the beacons were logged.

(e.g. 13 indicates logged between 13:00-13:59 UTC)

Any Offshore NDBs and UNIDs appear at the end of the list.

Cou	St	kHz	Call	Location	CAN BC bt	CAN BC sm	CAN NS vm	HWA mx	TWN hf	USA AZ sr	USA CA c9	USA CA dn	USA CA ir	USA CA pa	USA CO ac	USA FL cg	USA IL dt	USA IL fy	USA MD ri	USA MI jb	USA MN gs	USA MO dp	USA NE ru	USA NH jc	USA NJ ge	USA NJ rs	USA TX ch	USA TX du	USA WA rt	USA WA so
ALS	-	281	CRN	Sparrevohn Cairn Mtn		13		10																						
ALS	-	283	DUT	Dutch Harbor Unalaska		13		06		12	07			12																
AUI	-	282.5	RT	Rurutu						12		08		12																
BRA	-	285	CUA	Carauari (AM)																							05			
BRA	-	285	DOU	Dourados (MS)																						06				
BRU	-	318	BR	Brunei					12																					
CAN	AB	272	YLB	Lac La Biche		08					09															11				
CAN	AB	287	PE	Peace River	04	08								05												11	08	06		
CAN	AB	292	ZET	Edmonton		08						06																08		
CAN	AB	295	8C	Fairview	07	08								03																
CAN	AB	299	TV	Turner Valley	04	08				03	06	05		02	06		11	08									10	06	03	
CAN	AB	304	FH	Whitecourt McLeod	04	08					07																	08		
CAN	AB	305	Z1	Three Hills		08					07			05																
CAN	AB	307	M5	Manning		06																								
CAN	AB	308	ZZD	Edmonton		08					11						10									04	08			
CAN	AB	311	9Y	Pincher Creek	09	08				03	07			04	10											04	06	13		
CAN	BC	272	XS	Prince George	02	11					06			02			10									07	20			
CAN	BC	290	YYF	Penticton	03	08				03	06	05	03	02	11		11	11								02	20	13		
CAN	BC	293	MB	Mill Bay	05	08				03	06		04	03			11										20	13		
CAN	BC	302	6K	Vernon	09	08					10			05														20	13	
CAN	BC	312	UNT	Naramata Penticton	06	08				12	07	04		03														20	13	
CAN	MB	275	AV	Winnipeg St Andrews		06					07				05		17	07			04	02				03	09			
CAN	MB	280	4T	Shamattawa													10													
CAN	MB	284	QD	The Pas		08				03	07	05		03	00	17	01				03	17				03	04	07	08	
CAN	MB	287	ZWG	Winnipeg Medicine Rock		08									07	11	07				03	07				03	09			
CAN	MB	300	YIV	Island Lake								05			07	10	00			01	01	07	02				04			
CAN	MB	305	YQ	Churchill Eastern Creek											07	01	02				01	10					02			
CAN	NB	304	ZQM	Riverview Moncton			04												10					02						
CAN	NL	270	ZNF	St John's			04																							
CAN	NL	280	QX	Gander			04										01							02		08	03	02		
CAN	NL	281	CA	Cartwright			04																	03						
CAN	NT	274	FR	Fort Resolution		05																								
CAN	NU	284	RT	Rankin Inlet																							02			
CAN	ON	272	YQA	Muskoka Bracebridge			04			03				09	11	05	17	23	01	00	03	17		01	06	04	03	03		
CAN	ON	274	YPM	Pikangikum														03												
CAN	ON	276	YEL	Elliot Lake						05					11		17	23		00	04	23		01	07	06	02	04		
CAN	ON	283	PT	Pelee Is.			06			02				04	09		17	21	10	22	05	17		02	06	04	03	02		
CAN	ON	300	YOG	Ogoki Post													00	01				02				09	03	03		
CAN	ON	317	ZZR	Trenton Severn			04										11	02	03			02				01	00	03	04	

CAN	QC	272	ZMR	Montreal			04							23	04					07		16	06			03				
CAN	QC	275	R1	Thetford Mines			05			06				11	03							16	06							
CAN	QC	276	YHR	Chevery			04															00			08					
CAN	QC	278	NM	Matagami			06					02		10	17	23	01		01	17		16	06			03	04			
CAN	QC	289	YLQ	La Tuque			04							01	02	01			02		18	00		04		02	08			
CAN	QC	291	9Q	Amos			22							01	01				02		03					03	03			
CAN	QC	317	ZMX	Montreal Mirabel			04								10	02	01	00	10		18	06					04			
CAN	SK	290	QR	Regina		08						03		12	11	07			03	07	02					03	02			
CAN	SK	302	QW	North Battleford		10				06		04	04	05	10				08	08						03	02	07		
CAN	SK	317	YC	La Ronge		08				07	07		04	05	10				04	08						03	02	08	04	
CHN	-	272	FL	Wuji					11																					
CHN	-	276	KM	Dahushan					11																					
CHN	-	281	JW	Yongfu					12																					
CHN	-	292	NF	Nanfeng					12																					
CLM	-	309	GPI	Guapi			01					03	06	07		04	05	09	10	00			05	02	02	02		03	04	
CPV	-	274	SAL	Sal Is. Amilcar Cabral			02																							
CUB	-	278	URC	Nueva Gerona																								05		
CUB	-	315	UBR	Cayo las Brujas											00					10								09		
DMA	-	273	DOM	Marigot Melville Hall			04								00	03			03		02					03	06			
EQA	-	280	SOL	Guayaquil																								06		
FJI	-	307	NA	Nausori						09																				
GAL	-	272	GLS	Galapagos		06	04			03	06	07	05	04	04	09	01	06			04	07	05				02	06		
MHL	-	316	MAJ	Majuro Atoll				15		07																				
SMO	-	270	FA	Faleolo Upolu Is				10																						
TUA	-	284.5	MH	Manihi Atoll							08																			
TWN	-	310	SG	Taipei					12																					
TWN	-	315	NK	Nangan					12																					
USA	AL	287	HUA	Huntsville											11	01											03	09		
USA	AR	290	TYV	Jacksonville									05		11	01					23	02				03	18			
USA	AR	311	GK	Fort Smith								02	00		10	00				05	02	02				11	18			
USA	GA	278	GPQ	Carrollton											11	07					07							09		
USA	GA	280	MQW	Mc.Rae									06	06	01	00	01			02		03	07	08			09			
USA	GA	308	EVZ	Cartersville												11				10							04			
USA	GA	309	EEX	Swainsboro								03	04	09	10	00	10		03	02				06	02	09				
USA	GA	316	FF	Peachtree City											01	02				02							09			
USA	IL	272	IK	Kankakee											17	21					17						04			
USA	IL	272	OLY	Olney									11		17	21					17						01			
USA	IL	275	RF	Rockford						07					17	21					17						03	10		
USA	IL	293	UI	Quincy										12	17	21				21	17						11			
USA	KS	314	CVY	Fort Riley								03			17	00				05	00	21	18			03	09			
USA	KY	273	FK	Ft Campbell Hopkinsville							03	06			17	21					17					03	01			
USA	LA	284	BT	Baton Rouge							02			06	10	01				02	02					10	18			
USA	MA	279	CQX	Chatham			06																							
USA	MD	317	CBE	Cumberland			10								01	00				02		02	00	04			09			
USA	ME	278	PQ	Presque Isle			08															01								
USA	MI	272	BT	Battle Creek											17	21			00											
USA	MI	278	ADG	Adrian			06					05		09	17	21		22	05	17		01	06	06		03	09			
USA	MN	272	GP	Grand Rapids											23	11				21	03					03	09			



XUN	-	270	P	(UNID)											03																					
Cou	St	kHz	Call	Location	CAN BC bt	CAN BC sm	CAN NS vm	HWA mx	TWN hf	USA AZ sr	USA CA c9	USA CA dn	USA CA ir	USA CA pa	USA CO ac	USA FL cg	USA IL dt	USA IL fy	USA MD ri	USA MI jb	USA MN gs	USA MO dp	USA NE ru	USA NH jc	USA NJ ge	USA NJ rs	USA TX ch	USA TX du	USA WA rt	USA WA so						

**COUNTRIES and STATES / PROVINCES HEARD:** Shows the number of NDBs in each radio country that were logged by each reporter.

Cou	Country	St	CAN BC bt	CAN BC sm	CAN NS vm	HWA mx	TWN hf	USA AZ sr	USA CA c9	USA CA dn	USA CA ir	USA CA pa	USA CO ac	USA FL cg	USA IL dt	USA IL fy	USA MD ri	USA MI jb	USA MN gs	USA MO dp	USA NE ru	USA NH jc	USA NJ ge	USA NJ rs	USA TX ch	USA TX du	USA WA rt	USA WA so	
ALS	Alaska (US State)	-		2		2		1	1			1																	
AUI	Austral Is.	-						1		1		1																	
BRA	Brasil	-																									2		
BRU	Brunei	-					1																						
CAN	Canada	AB	5	10				2	6	2		5	2		2	1					1					2	4	6	2
CAN	Canada	BC	5	4				3	5	2	2	5	1		3	1											2	4	3
CAN	Canada	MB		3				1	2	2		1	5		6	5		1	5		5	1				3	5	1	1
CAN	Canada	NB			1												1						1						
CAN	Canada	NL			3										1								2		1	1	1		
CAN	Canada	NT		1																									
CAN	Canada	NU																									1		
CAN	Canada	ON			3			3				2	3	1	5	6	3	3	4	5		5	4	3	5	5			
CAN	Canada	QC			7			1	1			1	1		6	6	3	1	2	5		6	6	2	4	4			
CAN	Canada	SK		3				2	2	1	1	3	3		3	1			3	3	1				3	3	2	1	
CHN	China (PRC)	-																											
CLM	Colombia	-			1			1	1	1		1	1	1	1	1			1	1	1	1			1	1			
CPV	Cape Verde Is.	-			1																								
CUB	Cuba	-													1						1						2		
DMA	Dominica	-			1										1	1					1		1			1	1		
EQA	Ecuador	-																									1		
FJI	Fiji	-							1																				
GAL	Galapagos Is.	-		1	1			1	1	1	1	1	1	1	1	1			1	1	1	1			1	1			
MHL	Marshall Is.	-					1		1			1																	
SMO	Samoa, Western	-					1					1																	
TUA	Tuamotu Archipelago	-						1		1		1																	
TWN	Taiwan (ROC)	-						2																					
USA	USA	AL													1	1					1					1	1		
USA	USA	AR						1						2	2	2	2			1	2	2				2	2		
USA	USA	GA						1						2	2	4	5	2		1	5		1	1	2	1	5		
USA	USA	IL							1					2	4	4				1	4					1	4		
USA	USA	KS						1				1		1	1	1			1	1						1	1		
USA	USA	KY						1	1					1	1	1				1						1	1		
USA	USA	LA						1						1	1	1				1		1				1	1		



**LISTENING TIMES:**

Shows the number of NDBs logged by each reporter during the time periods shown.

UTC (hh)	CAN BC bt	CAN BC sm	CAN NS vm	HWA mx	TWN hf	USA AZ sr	USA CA c9	USA CA dn	USA CA ir	USA CA pa	USA CO ac	USA FL cg	USA IL dt	USA IL fy	USA MD ri	USA MI jb	USA MN gs	USA MO dp	USA NE ru	USA NH jc	USA NJ ge	USA NJ rs	USA TX ch	USA TX du	USA WA rt	USA WA so
00:00 - 00:59						2					8		4	9		4					5					
01:00 - 01:59			1			3					4		11	10	9	1	3							6		
02:00 - 02:59	1		1			10			2	8				8				21	8	12			5	11		
03:00 - 03:59	1					15			4	6				4	2		5			3			35	5		3
04:00 - 04:59	3		12			3		3	3	9	3			1			5					4	1	12		1
05:00 - 05:59	1	3	1			2		7	1	7	6	1		1			5			3				2		
06:00 - 06:59	1	3	4	1			21	1			4	1		5				1			10	4		8	3	
07:00 - 07:59	1	1					10	5			3			4			1	8			4			2	4	
08:00 - 08:59		20	1						2	1				1			2	3		1		3		2	4	1
09:00 - 09:59	2						2	2		1	3	3		1				2		2				23		
10:00 - 10:59	1	1	1	2			1				2		22	2	4			5		2			3	2		
11:00 - 11:59	1				3		1				4		18	11				5					6	3		
12:00 - 12:59	1				6	7				5	4							2								
13:00 - 13:59		3																								6
14:00 - 14:59																										
15:00 - 15:59				2																						
16:00 - 16:59																				6						
17:00 - 17:59													26					15								
18:00 - 18:59																		3		2				10		
19:00 - 19:59																								1		
20:00 - 20:59																									5	
21:00 - 21:59											4			10			10									
22:00 - 22:59			1													2										
23:00 - 23:59													2	7		1		4								
Totals:	11	33	22	5	9	42	35	20	10	37	45	5	83	74	15	8	31	73	11	31	19	11	50	87	16	11





NDBs	kHz	CAN BC bt	CAN BC sm	CAN NS vm	HWA mx	TWN hf	USA AZ sr	USA CA c9	USA CA dn	USA CA ir	USA CA pa	USA CO ac	USA FL cg	USA IL dt	USA IL fy	USA MD ri	USA MI jb	USA MN gs	USA MO dp	USA NE ru	USA NH jc	USA NJ ge	USA NJ rs	USA TX ch	USA TX du	USA WA rt	USA WA so
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### MOBs

The following NDBs were heard by one reporter only - 'Mine Only Beacons' !  
(Occasionally an entry may be the result of an incorrectly received ident)  
Bob's entries are better seen from the main 'Beacons Heard' list.

kHz	C/S	Location	St	ITU	Rptr	UTC
307	NA	Nausori	-	FJI	<b>c9</b>	09:22
280	4T	Shamattawa	MB	CAN	<b>dt</b>	10:53
285	CUA	Carauari (AM)	-	BRA	<b>du</b>	05:14
285	DOU	Dourados (MS)	-	BRA	<b>du</b>	06:06
278	URC	Nueva Gerona	-	CUB	<b>du</b>	05:01
280	SOL	Guayaquil	-	EQA	<b>du</b>	06:18
284	RT	Rankin Inlet	NU	CAN	<b>du</b>	02:27
272	RU	San Marcos	TX	USA	<b>du</b>	19:53
270	P	(UNID)	-	XUN	<b>fy</b>	03:36
274	YPM	Pikangikum	ON	CAN	<b>fy</b>	03:16
318	BR	Brunei	-	BRU	<b>hf</b>	12:12
272	FL	Wuji	-	CHN	<b>hf</b>	11:45
276	KM	Dahushan	-	CHN	<b>hf</b>	11:55
281	JW	Yongfu	-	CHN	<b>hf</b>	12:01
292	NF	Nanfeng	-	CHN	<b>hf</b>	12:19
310	SG	Taipei	-	TWN	<b>hf</b>	12:07
315	NK	Nangan	-	TWN	<b>hf</b>	12:08
272	AZ	(UNID)	-	XUA	<b>hf</b>	11:48
298	NF	(UNID)	-	XUA	<b>hf</b>	12:22
272	PFH	Hudson Philmont	NY	USA	<b>jc</b>	16:08
279	OZ	Oneonta	NY	USA	<b>jc</b>	16:16
315	HO	Hihifo Wallis Is	-	WAL	<b>mx</b>	15:54
307	M5	Manning	AB	CAN	<b>sm</b>	06:30
274	FR	Fort Resolution	NT	CAN	<b>sm</b>	05:00
274	SAL	Sal Is. Amilcar Cabral	-	CPV	<b>vm</b>	02:29
279	CQX	Chatham	MA	USA	<b>vm</b>	06:02
270	ZNF	St John's	NL	CAN	<b>vm</b>	04:35
kHz	C/S	Location	St	ITU	Rptr	UTC

## FREQUENCIES REVISITED - Progress Statistics

(Please see the explanation below)

THEN: CLE195 270 - 319.9 kHz 19 - 22 Jun. 2015  
 NOW: CLE212 270 - 319.9 kHz 28 - 31 Oct. 2016

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
CAN BC bt		791		9		11		1137
TWN hf		1099		8		7		2327
USA AZ sr		2489		105		42		8241
USA CA c9		2535		89		35		8742
USA CA ir		1614		16		10		5415
USA FL cg		1800		9		5		3380
USA IL fy		1124		82		73		4700
USA MD ri		690		10		15		1138
USA MI jb		488		4		8		1506
USA MN gs		1112		34		31		5033
USA NE ru		1696		19		11		4668
USA TX ch		2090		105		50		4613
USA WA rt		718		11		16		1629
<b>Averages:</b>		1403		38		24		4041

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
CAN BC sm	1001	1311	26	43	26	33	3006	6331
CAN NS vm	1716	1634	41	36	24	22	4971	5745
HWA mx	4829	4070	34	20	7	5	7820	4418
USA CA dn	1405	2599	13	52	9	20	2521	7231
USA CA pa	1633	2548	28	94	17	37	3056	7830
USA CO ac	349	1424	2	64	5	45	672	4966
USA IL dt	347	1241	4	103	11	83	634	4765
USA MO dp	759	1174	11	86	14	73	1850	4371
USA NH jc	871	995	19	31	22	31	3258	4558
USA NJ ge	825	704	9	13	11	19	1631	1631
USA NJ rs	1217	970	7	11	6	11	1943	1943
USA TX du	558	1798	8	156	14	87	1533	7420
USA WA so	939	676	13	7	14	11	2244	1651
<b>Averages:</b>	1265	1626	16	55	14	37	2703	4835
<b>% Increase:</b>		29		235		165		79

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 they 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 aeralis, etc. Many of our CLEs re-use the same 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 lower 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 aeralis, 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.

**'TAB's Trans-Atlantic Beacons**

The numbers shown within the table are the times in 'hh' UTC that the beacons were logged.

kHz	C/S	Location	ITU	CAN NS vm	BEL pr	DEU hw	DEU je	ENG hh	ENG me	ENG re	HOL rb
274	SAL	Sal Is. Amilcar Cabral	CPV	02							
276	YHR	Chevery, QC	CAN			00					00
280	QX	Gander, NL	CAN		03	00		23	03	23	00
305	LT	Alert, NU	CAN			23					
273	DOM	Marigot Melville Hall	DM A				02				00