

NDB LIST CLE No. 100 Five 'Challenges', each based on hearing up to 100 NDBs

25 Dec 2007- 2 Jan 2008, midday - midday

COMBINED RESULTS N.AMERICA

For overall statistics, please see the covering email.

Reporters:

CAN	NS	vm	Vernon Matheson, Greenfield, Truro
CAN	ON	hb	Herb Balfour, Richmond Hill, N. of Toronto
CAN	ON	mf	Martin Francis, Richmond Hill, N. of Toronto
HWA		mx	Mike Tuggle, Kaneohe, Hawaii
USA	AZ	dp	Dick Palmer, Green Valley
USA	CA	bc	Bob Coomler, Cloverdale
USA	FL	jy	Jay Heyl, Orlando
USA	IL	dt	Dave Tomasko, Galena
USA	MA	cb	Chris Black, Cape Cod
USA	MI	ar	Andy Robins, Kalamazoo
USA	MO	d1	Dick Palmer, While at St Charles
USA	NC	dw	Don Ward, Raleigh, NC
USA	OR	jw	Jack Woods, Waldport, Oregon coast
USA	OR	mc	Mark McCarthy, Portland
USA	OR	sr	Steve Ratzlaff, Elgin, NE Oregon
USA	UT	mu	Mark Moulding, Ogden
USA	WA	de	Dan Petersen, La Center, Nr Longview in SW of WA

Beginners Challenge: Log any 100 NDBs.

Midday Challenge: Log any 100 NDBs within 2 hours of local midday.

Midday 100kHz Challenge: As 'Midday Challenge', but only **one NDB** from each kHz of your chosen 100 kHz range.

DX Challenge: Log any 100 DX NDBs - as DX as you can.

DX 100kHz Challenge: As 'DX Challenge', but only **one NDB** from each kHz of your chosen 100 kHz range.

No NDB to be in more than one Challenge, even if logged twice or more.
For the two 100kHz Challenges, 321.5 kHz would count as 321 kHz, etc.

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 (cle'at'beaconworld.org.uk
- replace the 'at' by an '@' symbol)

BEACONS HEARD:

The following list includes all the beacons reported in all the CLE100 Challenges.

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)

Cou	St	kHz	Call	Location	CAN NS vm	CAN ON hb	CAN ON mf	HW A mx	USA AZ dp	USA CA bc	USA FL jy	USA IL dt	USA MA cb	USA MI ar	USA MO d1	USA NC dw	USA OR jw	USA OR mc	USA OR sr	USA UT mu	USA WA de
AIA	-	209	ANG	Wallblake, Anguilla Is.	4																
ALG	-	432	HMB	Hamman Bou Hadjar	0																
ALS	-	209	CYT	Yakataga													13				
ALS	-	219	GAV	Gustavus													14				
ALS	-	223	AFE	Kake													13				
ALS	-	233	ALJ	Johnstone Pt Hinchinbrook Is.				9	9								12	7	19	13	
ALS	-	251	OSE	Bethel													13		10		
ALS	-	266	ICK	Annette Island													13		18		
ALS	-	281	VIR	Point Barrow															14		
ALS	-	283	DUT	Dutch Harbor				8									12	9	10		
ALS	-	341	ELF	Cold Bay				6									5	7	10		
ALS	-	347	TNC	Tin City				9													
ALS	-	350	VTR	McGrath ++ BRA	4			8										10			
ALS	-	358	SIT	Sitka													12				
ALS	-	365	ANV	Anvik													13				
ALS	-	371	PDN	Port Heiden				8													
ALS	-	382	JNR	Unalakleet													13	9			
ALS	-	385	EHM	Cape Newenham				5									13	10			
ALS	-	385	OCC	Yakutat													12	9			
ALS	-	387	BOB	Anchorage													14				
ALS	-	390	HBT	Sand Point				5									11	5		11	
ALS	-	391	EEF	Sisters Island													13			11	7
ALS	-	394	RWO	Kodiak				20									12	10			
ALS	-	399	SRI	St George				8											10		
ALS	-	404	GCR	Cordova													14				

BRB	-	345	BGI	Bridgetown	0						6		8			4		
CAN	AB	201	ZXD	Blatchford Edmonton					12							19	13	
CAN	AB	215	ZAB	Edmonton					12							19		
CAN	AB	221	QU	Grand Prairie										5		19	14	
CAN	AB	230	VG	Vermillion					12							19		
CAN	AB	239	OJ	High Level				8						5		20	13	7
CAN	AB	241	YLL	Lloydminster					12							20		
CAN	AB	248	QL	Lethbridge										2		20		7
CAN	AB	254	SM	Fort Smith				8							7	20	14	
CAN	AB	254	ZYC	Calgary					12							20		7
CAN	AB	266	XD	Edmonton													13	
CAN	AB	272	YLB	Lac La Biche					2									
CAN	AB	274	Z5	Vulcan														7
CAN	AB	287	PE	Peace River					12					5			12	14
CAN	AB	292	ZET	Edmonton					12									
CAN	AB	299	TV	Turner Valley					12								14	
CAN	AB	300	Q5	Grande Cache					12									
CAN	AB	305	Z1	Three Hills														14
CAN	AB	320	YQF	Red Deer				8										14
CAN	AB	332	XH	Medicine Hat					12					6				
CAN	AB	338	ZU	Whitecourt					12								14	14
CAN	AB	343	YZH	Slave Lake				8						10	6		14	14
CAN	AB	344	YC	Calgary					12		11			8				
CAN	AB	353	5F	Fox Creek													14	
CAN	AB	388	3Z	Taber					12									
CAN	AB	388	JW	Pigeon					12					9			11	7
CAN	AB	393	8N	Edson					12								10	7
CAN	AB	405	2K	Camrose												19		
CAN	AB	405	9G	Sundre														14
CAN	AB	406	2S	High Prairie														7
CAN	BC	200	UAB	Anahim Lake				19		17		5		21		19	13	6
CAN	BC	203	YBL	Campbell River, Vancouver Is														6
CAN	BC	203	ZKI	Kitimat												19		6
CAN	BC	206	EF	Castlegar					12							19		7

CAN	ON	207	FD	Brantford		1						15							
CAN	ON	209	IB	Atikokan											6	19			
CAN	ON	212	TS	Timmins								16							
CAN	ON	216	YFA	Fort Albany															
CAN	ON	218	RL	Red Lake								16			8	19	13	6	
CAN	ON	219	YMG	Manitouwadge															
CAN	ON	221	HM	Hamilton		0													
CAN	ON	223	YYW	Armstrong							15	16			8				
CAN	ON	224	MO	Moosonee															
CAN	ON	233	QN	Nakina															
CAN	ON	235	CN	Cochrane															
CAN	ON	236	4L	Chatham								16							
CAN	ON	236	OW	Ottawa							15								
CAN	ON	236	ZLB	Toronto							17								
CAN	ON	241	HF	Hearst															
CAN	ON	245	YZE	Gore Bay		3					18	17							
CAN	ON	247	YLH	Landsdowne House															
CAN	ON	248	KZ	Toronto Buttonville		2													
CAN	ON	257	TZ	Toronto Is. Gibraltar Pt								17							
CAN	ON	258	ZSJ	Sandy Lake		3	5					17			7	13			
CAN	ON	260	YAT	Attawapiskat			5				15								
CAN	ON	261	GD	Goderich								17							
CAN	ON	263	YGK	Kingston		3	5												
CAN	ON	264	ZPB	Sachigo Lake			5								6				
CAN	ON	266	YFH	Fort Hope			5												
CAN	ON	266	ZHM	Hamilton		0						17							
CAN	ON	268	S7	Hanover			5					17							
CAN	ON	272	YQA	Muskoka		3						17							
CAN	ON	274	YPM	Pikangikum			6												
CAN	ON	276	YEL	Elliot Lake		0	6					17							
CAN	ON	283	6M	Belleville		4													
CAN	ON	283	PT	Pelee Island		4	7					18							
CAN	ON	317	ZZR	Trenton		4													
CAN	ON	326	VV	Warton		2						18							

CAN	ON	326	YQK	Kenora									8				2	
CAN	ON	328	YTL	Big Trout Lake		11		8					10		6			7
CAN	ON	329	YHN	Homepayne	4			2							8			
CAN	ON	332	QT	Thunder Bay					5			18						
CAN	ON	334	YER	Fort Severn									8		9			
CAN	ON	334	YSH	Smiths Falls		11												
CAN	ON	335	YLD	Chapleau				2				18	4		8			
CAN	ON	335	ZKF	Kitchener	2						18							
CAN	ON	341	YYU	Kapuskasing				2					4	6	9			
CAN	ON	341	ZLP	Toronto	1													
CAN	ON	344	ZOW	Ottawa Nepean		12												
CAN	ON	346	YXL	Sioux Lookout	2								6		6			
CAN	ON	353	QG	Windsor	2								6					
CAN	ON	355	YWP	Webequie				7					8		8			
CAN	ON	362	SB	Sudbury	2			2										
CAN	ON	368	ZYZ	Toronto	1													
CAN	ON	376	YAG	Fort Frances									4		5			
CAN	ON	377	YRR	Ottawa Greely	1								4					
CAN	ON	379	YPQ	Peterborough	1								4					
CAN	ON	382	YPL	Pickle Lake	1								4		8		8	
CAN	ON	385	ZDH	Toronto	1													
CAN	ON	391	3B	Brockville									4					
CAN	ON	391	OO	Oshawa	1													
CAN	ON	393	2M	Mussel White									7					
CAN	ON	397	ZHA	Hamilton	1													
CAN	ON	399	ZHD	Dryden											9			
CAN	ON	401	YPO	Peawanuck				7					9					
CAN	ON	403	ZTO	Toronto	2								11					
CAN	ON	404	ZYB	North Bay				8										
CAN	ON	408	SN	St Catharines	2								7					
CAN	ON	409	YTA	Pembroke	2								7					
CAN	ON	413	YHD	Dryden	2								9		6		12	7
CAN	ON	516	YWA	Petawawa	2			8										
CAN	PE	254	5B	Summerside	3			10			2	18	0					

CAN	QC	203	KL	Schefferville						2		1							
CAN	QC	216	ME	Matane													6		
CAN	QC	218	YUY	Rouyn							17								
CAN	QC	220	BX	Blanc Sablon				9		1	15	7					6		
CAN	QC	230	QB	Quebec	3						17								
CAN	QC	232	GP	Gaspé						2	16	2							
CAN	QC	235	9H	La Grande 3				8											
CAN	QC	239	FE	Forestville						1	18								
CAN	QC	239	VO	Val d'Or	3			9			16								
CAN	QC	243	YVB	Bonaventure				9		1	15	2					4		
CAN	QC	244	DG	Chute de Passes	3					1									
CAN	QC	248	UL	Montreal	0						16								
CAN	QC	250	UAC	Poste Montagnais		4				2	18	7							
CAN	QC	253	YTF	Alma		4		10									6		
CAN	QC	261	2H	Lebel sur Quevillon		5													
CAN	QC	273	ZV	Sept Iles		6		3		1	16	7					6		
CAN	QC	275	R1	Thetford Mines		6													
CAN	QC	276	YHR	Chevery							16								
CAN	QC	278	NM	Matagami	4	6		8											
CAN	QC	284	ZMT	Montreal Dorval	4														
CAN	QC	285	UHA	Quaqtaq	4														
CAN	QC	289	YLQ	La Tuque		4		9									5		
CAN	QC	291	9Q	Amos		4													
CAN	QC	303	YPP	Parent	4	4													
CAN	QC	323	KR	Schefferville / Squaw		4													
CAN	QC	332	YFM	La Grande 4						3	18								
CAN	QC	336	BV	Quebec Champlain													5		
CAN	QC	338	YPX	Puvimituq						1		7							
CAN	QC	338	ZEM	Eastmain									6						
CAN	QC	340	YY	Mont Joli		12		8		1	18					6	5		
CAN	QC	344	YGV	Havre St Pierre						3									
CAN	QC	348	ZUL	Montreal (Dorval)									2						
CAN	QC	351	YKQ	Waskaganish				2			18			4		6			
CAN	QC	358	YKG	Kangiqsujuak								7							

CAN	QC	360	PN	Port Menier			2		1		4			4		
CAN	QC	362	SC	Sherbrooke								2				
CAN	QC	366	YMW	Maniwaki	2		9					2		6		
CAN	QC	370	GR	Grindstone Iles de la Madeline						18	4					
CAN	QC	371	GW	Kuujuarapik			2		2			6		8		
CAN	QC	373	YXK	Rimouski								11		4		
CAN	QC	375	YZG	Salluit								9				
CAN	QC	378	RJ	Roberval	1											
CAN	QC	384	F8	Victoriaville			8					11		4		
CAN	QC	385	NA	Natashquan					2	18	2					
CAN	QC	386	D8	Dolbeau	1							7				
CAN	QC	390	VP	Kuujuuaq / Kujack								9				
CAN	QC	392	ML	Charlevoix			2		1	18				3		
CAN	QC	396	PH	Inukjuak	1		8	7		19				8		
CAN	QC	405	7L	La Sarre								7				
CAN	QC	407	ZHU	Hauts Bois St Hubert						18				4		
CAN	SK	204	ZQR	Regina										19		
CAN	SK	212	BY	Beechy							2			19	13	
CAN	SK	257	XE	Saskatoon							5			20	13	
CAN	SK	317	VC	La Ronge		4	8			16	6				14	14
CAN	SK	332	VT	Buffalo Narrows											14	
CAN	SK	347	PA	Prince Albert					3		7	8				
CAN	SK	356	ZXE	Saskatoon							7					
CAN	SK	368	VX	Dafoe							5					
CAN	SK	379	YBE	Uranium City											7	
CAN	SK	385	QV	Yorkton											8	
CAN	SK	397	ZSS	Saskatoon											2	7
CAN	SK	398	3D	Cumberland House			8									
CAN	SK	406	YLJ	Meadow Lake					3		6	7		19	13	7
CAN	SK	414	ZRG	Regina											13	14
CAN	YT	269	ZW	Teslin									12			
CAN	YT	302	XY	Whitehorse			8	10					11	6		
CAN	YT	329	PJ	Whitehorse/Robinson										8		
CAN	YT	341	DB	Burwash			8	8					11	6	13	

USA	MA	220	IHM	Mansfield							15							
USA	MA	227	TAN	Taunton							15							
USA	MA	248	AC	Nantucket							16							
USA	MA	251	SKR	Bedford							15							
USA	MA	257	FFF	Plymouth							16							
USA	MA	269	TOF	Beverly							17							
USA	MA	274	EW	New Bedford							17							
USA	MA	279	CQX	Chatham							17							
USA	MA	332	BE	Bedford							18							
USA	MA	342	HY	Hyannis							18							
USA	MA	346	LI	Boston							18							
USA	MA	362	FMH	Falmouth							18							
USA	MA	368	IMR	Marshfield							18							
USA	MA	375	BO	Boston							18							
USA	MA	382	LQ	Boston							18							
USA	MA	389	PVC	Provincetown							18							
USA	MA	397	OW	Norwood							18							
USA	MA	402	LW	Lawrence							18							
USA	MA	417	EK	Worcester							18							
USA	MD	349	APG	Aberdeen Proving Ground							18							
USA	MD	407	OX	Ocean City							18							
USA	ME	216	LRG	Lincoln							15							
USA	ME	221	RQM	Rangeley							17							
USA	ME	227	BG	Bangor							18							
USA	ME	227	SZO	Fryeburg							15							
USA	ME	240	LE	Auburn/Lewiston							16							
USA	ME	272	OLD	Old Town							18							
USA	ME	278	BST	Belfast							16							
USA	ME	330	BH	Bar Harbor							17							
USA	ME	334	RM	Rockland							18							
USA	ME	349	SF	Sanford							16							
USA	ME	356	SUH	Rockland							18							
USA	ME	366	AU	Augusta							17							
USA	ME	399	RL	Waterville							18							

USA	MI	206	AP	Alpena								15							
USA	MI	212	JX	Jackson								16							
USA	MI	215	PZQ	Rogers City								16							
USA	MI	218	DRM	Drummond Island								16							
USA	MI	219	MK	Muskegon								16							
USA	MI	223	DM	Detroit								16							
USA	MI	230	VQ	Detroit								16							
USA	MI	233	HLM	Holland								16							
USA	MI	243	OZW	Howell								16							
USA	MI	257	MB	Saginaw								17							
USA	MI	263	GR	Grand Rapids								17							
USA	MI	269	CAD	Cadillac			5					17							
USA	MI	269	FN	Flint								17							
USA	MI	272	BT	Battle Creek								17							
USA	MI	278	ADG	Adrian								17							
USA	MI	329	AMN	Alma								18							
USA	MI	332	PH	Port Huron								18							
USA	MI	336	MA	Cadillac								18							
USA	MI	381.5	SJX	Beaver Island									9						
USA	MN	209	CHU	Caledonia								16							
USA	MN	337	FF	Fergus Falls									3						
USA	MN	342	PFT	Pinecreek									6						
USA	MN	353	IN	International Falls													2		
USA	MO	227	FZ	St Louis								15							
USA	MO	269	FES	Festus								16							
USA	MO	281	DMO	Sedalia								14							
USA	MO	326	SU	St Louis								14							
USA	MO	338	LM	St Louis								16							
USA	MO	356	UUV	Sullivan								16							
USA	MO	358	TKX	Kennett									6						
USA	MO	367	PRI	Farmington									10						
USA	MO	375	CHT	Chillicothe								14							
USA	MO	404	ST	St Louis								16							
USA	MO	411	HAE	Hannibal								16							

USA	MS	349	GW	Greenwood									10					
USA	MS	420	TU	Tupelo									9					
USA	MT	203	RED	Red Lodge												19		
USA	MT	236	FOR	Forsyth												20		
USA	MT	242	HWQ	Harlowton												20		
USA	MT	251	BI	Billings												20		
USA	MT	251	PWD	Plentywood												20		
USA	MT	266	BZ	Bozeman												18		
USA	MT	269	CII	Choteau										1				7
USA	MT	272	MLK	Malta														7
USA	MT	283	SCO	Scobey														7
USA	MT	286	EKS	Ennis														14
USA	MT	320	HTN	Miles City			4					3						
USA	MT	323	LTY	Chester														14
USA	MT	335	CVP	Helena														14
USA	MT	339	MKR	Glasgow Milk River								7						
USA	MT	344	BKU	Baker												18		
USA	MT	353	LWT	Lewistown				8		19		5		1		18		14
USA	MT	362	RPX	Roundup				8				4		1				
USA	MT	371	ITU	Great Falls				8						12		18		14
USA	MT	386	HAU	Helena														7
USA	MT	392	EUR	Eureka														7
USA	MT	404	OLF	Wolf Point														14
USA	MT	410	GDV	Glendive								3				19		14
USA	MT	414	LYI	Libby										1		19		7
USA	MT	515	SAK	Kalispell												19		7
USA	MT	521	INE	Missoula				8								19		7
USA	NC	198	DIW	Dixon		3			6		16		15	15		8	5	
USA	NC	216	CLB	Wilmington Carolina Beach					2		16		15	16	0	10	6	9
USA	NC	230	AQE	Greenville									17					
USA	NC	254	LLW	Elizabeth City			4						16					
USA	NC	271	HXO	Oxford Huntsboro			6											
USA	NC	357	IM	Keans Asheville										6				
USA	NC	361	HB	Burlington										8				

USA	OR	305	ONO	Ontario										14		18		14		
USA	OR	332	LBH	Portland										23		19				
USA	OR	347	LFA	Klamath Falls										2						
USA	OR	350	ON	Newport										23						
USA	OR	356	MEF	Medford										14		19				
USA	OR	356	PND	Portland												19				
USA	OR	373	MF	Medford												19				
USA	OR	378	OT	North Bend										14		18	9			
USA	OR	411	RD	Redmond										14		19				
USA	PA	208	UKT	Quakertown								15								
USA	PA	254	EUD	York								18								
USA	PA	272	UCP	New Castle			6													
USA	PA	287	MKP	McKeesport									18							
USA	PA	372	CQD	Erie										6						
USA	PA	388	NXX	Willow Grove								17								
USA	RI	335	PV	Providence								18								
USA	RI	356	AR	Providence								18								
USA	SC	239	GIW	Greenwood													3			
USA	SC	326	UOT	Union						1										
USA	SC	329	CH	Charleston						2							2			
USA	SC	354	MKS	Moncks Corner										6						
USA	SD	245	FS	Sioux Falls													20			
USA	SD	254	RA	Rapid City													20			
USA	SD	400	MDS	Madison													7			
USA	TN	255	FYE	Somerville			4													
USA	TN	279	ON	Springfield		4														
USA	TN	304	BN	Nashville		4														
USA	TN	341	CQN	Chattanooga			12													
USA	TX	206	GLS	Galveston								16			1		8	19	10	6
USA	TX	239	PWY	Hebronville									3		3					
USA	TX	242	EL	El Paso														9		13
USA	TX	245	ANR	Andrews														6		
USA	TX	251	AM	Amarillo											6			7	20	9
USA	TX	280	GZV	Graford Brazos River														9		

USA TX	281	UVA	Uvalde						3		5							
USA TX	326	MA	Midland								6				9			
USA TX	330	GLE	Gainesville													9		
USA TX	338	LSA	Lamesa								11							
USA TX	344	GNC	Seminole													9		
USA TX	380	BBD	Brady								11				7			
USA TX	382	CR	Corpus Christi								7							
USA TX	403	MFS	Marble Falls								8							
USA TX	405	LR	Laredo								8							
USA TX	421	EF	McKinney	9								5						
USA TX	428	SYW	Greenville	10											9			
USA UT	284	DPG	Dugway Proving Gnd.													17	7	
USA UT	294	BMC	Brigham City													17		
USA UT	371	TVY	Tooele										12			17	14	
USA VA	226	FAF	Fort Eustis							17								
USA VA	241	PVG	Portsmouth							16								
USA VA	249	RK	Suffolk							16								
USA VA	261	ELQ	Emporia							16					3			
USA VA	335	MK	Marion		11													
USA VA	336	BDB	Melfa Accomack							18								
USA VT	265	SXD	Springfield		5					16								
USA WA	206	PWT	Bremerton					19										
USA WA	219	OMK	Omak													19		
USA WA	236	HQ	Hoquiam													19		
USA WA	240	BVS	Burlington													20		
USA WA	331	PS	Pasco													19		
USA WA	348	MNC	Shelton Mason Co										0			14		
USA WA	353	AL	Walla Walla													18		
USA WA	353	RNT	Renton										1					
USA WA	371	YK	Yakima										2			18		
USA WA	388	GE	Spokane													18		7
USA WA	396	PA	Everett													14		
USA WA	408	MW	Moses Lake			9								12		19		
USA WI	200	HXF	Hartford								15							

USA	WI	203	PVB	Platteville										15							
USA	WI	224	II	Sturgeon Bay										16							
USA	WI	242	GM	Milwaukee										16							
USA	WI	260	BL	Milwaukee										17							
USA	WI	266	DU	Marshfield										17							
USA	WI	329	LLE	West Bend										18							
USA	WI	332	SG	Green Bay										18							
USA	WI	338	HE	Sheboygan										18							
USA	WI	412	CMY	Sparta											7						
USA	WY	257	HCY	Cowley																18	
USA	WY	266	SAA	Saratoga																18	
USA	WY	275	GEY	Greybull																18	7
USA	WY	280	GYZ	Guernsey																18	
USA	WY	290	AOP	Rock Springs																18	
USA	WY	344	POY	Powell																18	
USA	WY	368	SIR	Sinclair				8					5							18	
USA	WY	380	GC	Gillette									11		4					18	
USA	WY	392	PNA	Pinedale																18	7
VOI	-	360	OX	Iwo Jima													13				
VUT	-	412	SON	Santo Pekoa																13	
XON	-	415	IEE	Platform Irene (off CA)																	9
Cou	St	kHz	Call	Location	CAN	CAN	CAN	HW	USA	USA	USA	USA	USA	USA	USA	USA	USA	USA	USA	USA	USA
					NS	ON	ON	A	AZ	CA	FL	IL	MA	MI	MO	NC	OR	OR	OR	UT	WA
					vm	hb	mf	mx	dp	bc	jl	dt	cb	ar	d1	dw	jw	mc	sr	mu	de

CPV	Cape Verde Is.	-	1															
CTR	Costa Rica	-				2									1			
CUB	Cuba	-	7			3		1			1			5				
CYM	Cayman Is.	-	2		1	2	1	2		2	1		1	2	2			
DMA	Dominica	-	1			2		1		2				2				
DOM	Dominican Rep.	-	2			1		1		1				1				
EQA	Ecuador	-	1								2							
ESP	Spain	-	3															
FRA	France	-	2															
FSM	Micronesia	-			1	1						1	1	2				
GDL	Guadeloupe	-	1															
GRL	Greenland	-	1															
GTM	Guatemala	-	1			1		1		2	1			3	1			
GUF	French Guyana	-	1															
HND	Honduras	-	1			1				1				1				
HWA	Hawaii (US State)	-			6	2		1				2	2	4	2	2		
JMC	Jamaica	-	1			1		1		1				1				
JPN	Japan	-										2		1				
LCA	St Lucia	-	1															
MDR	Madeira	-	1															
MDW	Midway Is.	-			1								1	1				
MEX	Mexico	-												1	2			
MHL	Marshall Is.	-			1							2		2				
MRT	Martinique	-	1															
NFK	Norfolk Is.	-										1		1				
NZL	New Zealand	-												1				
OCE	Society Is.(Tahiti)	-												1				
PAQ	Easter Is.	-			1	1		1		1			1	1	1	1		
PNG	Papua New Guinea	-										1						
PNR	Panama	-	1															
POR	Portugal	-	1															
POR	Portugal	-	4								2							
PRG	Paraguay	-	1															
PRG	Paraguay	-	1															
PTR	Puerto Rico	-	1		1	1		1		1	1		1	1	1	1		
SLV	El Salvador	-									1							
SMA	Samoa, American	-			1							1		1				
SMO	Samoa, Western	-			1	1								1				

TCA	Turks & Caicos Is.	-	2			2			2					2			
TRD	Trinidad & Tobago	-	2			1			1			1					
TUA	Tuamotu Archipelago	-				1									3		
USA	USA	AL	1									1					
USA	USA	AR									1	1					
USA	USA	AZ												2	3	1	
USA	USA	CA			3		19	1	1		1	3		1	4	3	8
USA	USA	CO							5					1	1		1
USA	USA	CT								1							
USA	USA	DE								1							
USA	USA	FL	9		3	4		28	6		6	1		1	14		
USA	USA	GA	7					2				1	1		5		
USA	USA	IA									6	5	4				
USA	USA	ID			1		1				1		1	2	3	4	7
USA	USA	IL									8	15					
USA	USA	IN			1						15						
USA	USA	KS										1	2		5	5	
USA	USA	KY									3						
USA	USA	MA								20							
USA	USA	MD								2							
USA	USA	ME								13							
USA	USA	MI			1						18		1				
USA	USA	MN									1		2			1	
USA	USA	MO										9	2				
USA	USA	MS											2				
USA	USA	MT			1	4	1				5			5	13		15
USA	USA	NC		1	2	3		2		5	2	1	3		2	4	1
USA	USA	ND											1		1		
USA	USA	NE				1						1	3		2	3	1
USA	USA	NH								5							
USA	USA	NJ				1					4				1		
USA	USA	NM									1				3	2	
USA	USA	NV					1								1		1
USA	USA	NY		3						2							
USA	USA	OH			1						17						
USA	USA	OK			1								1		1	3	
USA	USA	OR					1							12	13	1	1
USA	USA	PA			1					3	1		1				

USA	USA	RI									2									
USA	USA	SC					1			2					1			2		
USA	USA	SD														1		2		
USA	USA	TN		2	2															
USA	USA	TX	3			1				1	2		10		1		8	2	5	1
USA	USA	UT														1			3	2
USA	USA	VA			1							5						1		
USA	USA	VT			1							1								
USA	USA	WA				1		1								4		8	2	1
USA	USA	WI											9		1					
USA	USA	WY				1							2		1				9	2
VOI	Volcano Is. / Iwo Jima	-														1				
VUT	Vanuatu	-																	1	
XON	Offshore - NA	-																		1
Cou	Country	St	CAN NS vm	CAN ON hb	CAN ON mf	HWA mx	USA AZ dp	USA CA bc	USA FL jy	USA IL dt	USA MA cb	USA MI ar	USA MO d1	USA NC dw	USA OR jw	USA OR mc	USA OR sr	USA UT mu	USA WA de	

LISTENING TIMES:

Shows the number of NDBs logged by each reporter during the time periods shown (all Challenges).

UTC (hh)	CAN NS vm	CAN ON hb	CAN ON mf	HW A mx	USA AZ dp	USA CA bc	USA FL jy	USA IL dt	USA MA cb	USA MI ar	USA MO d1	USA NC dw	USA OR jw	USA OR mc	USA OR sr	USA UT mu	USA WA de
00:00 - 00:59	29	4					1	2		2	1		2				
01:00 - 01:59	16	13					6	23		3		3	20		1		
02:00 - 02:59	16	14			15		2	25		7		5	7		3	6	
03:00 - 03:59	10	9			7			16		9		1			16	2	
04:00 - 04:59	11	12	15					1		10	9	16			11		
05:00 - 05:59	1		11	5			1			13	4	4	5	5	11		
06:00 - 06:59			7	2	3					25		20	1	17	11		12
07:00 - 07:59			4	3	8					19		15		27	7		46
08:00 - 08:59				39	29					6		10		25	9	4	
09:00 - 09:59	3			9	22							16		17	9	18	
10:00 - 10:59	5				12							4	1	9	5	7	

11:00 - 11:59	1		6							5		3	7		5	7	
12:00 - 12:59			3					28		1			16		2	6	
13:00 - 13:59					4								17		3	28	
14:00 - 14:59												9	11		4	22	36
15:00 - 15:59									22	8	2				3		6
16:00 - 16:59							17	2	25	30	13						
17:00 - 17:59							9	1	16	40						18	
18:00 - 18:59						8	3		37	22					26	1	
19:00 - 19:59						22		1				1			52		
20:00 - 20:59				2		15							1		22	3	
21:00 - 21:59											1		6				
22:00 - 22:59	1			6				1					3				
23:00 - 23:59	7											1	3				
UTC (hh)	CAN NS vm	CAN ON hb	CAN ON mf	HW A mx	USA AZ dp	USA CA bc	USA FL jy	USA IL dt	USA MA cb	USA MI ar	USA MO d1	USA NC dw	USA OR jw	USA OR mc	USA OR sr	USA UT mu	USA WA de

Midday Listening (Winter) - Average distance heard vs Listener's Latitude

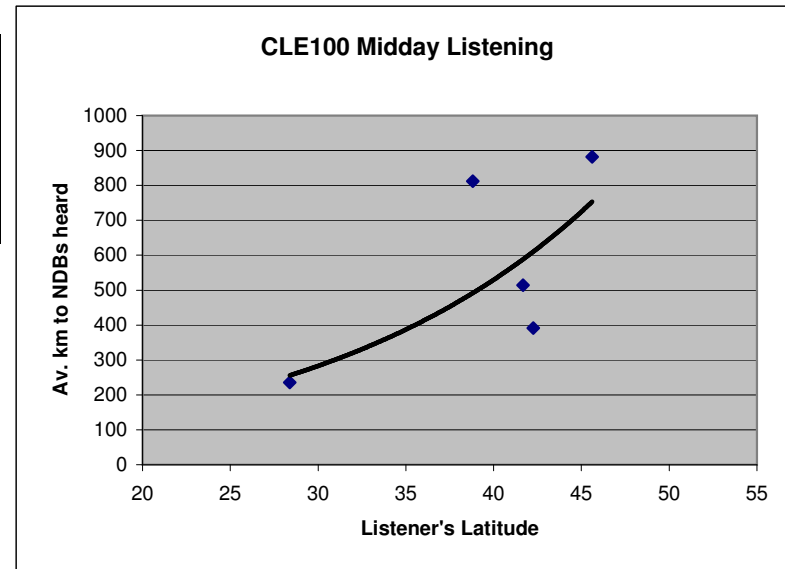
The very low midday sun at high latitudes in winter means that reception can occur over quite long distances. To make the following table and the corresponding chart, I used 'midday' loggings between 15:00 and 21:00 UTC. Closeness of listeners to the sea would also have a major influence on the average distances heard.

If the Latitude of the NDBs were also taken into account, the effect would be more pronounced.

Listener	Lat.	Avg km	NDBs
USA OR sr	45.6	882	100
USA CA bc	38.8	812	45
USA MA cb	41.7	514	100
USA MI ar	42.3	392	100
USA FL jy	28.4	236	29

Example: Steve's Latitude is about 45.6 degrees and his 100 reports gave an average distance between him and the beacons heard of 882 km.

The results would have been more significant if more listeners had sent midday logs and if all of them had been able to make close to 100 midday loggings.



MOBs

There were 492 different NDBs each heard by one reporter only - 'Mine Only Beacons'.
This table just shows the count of MOBs for each listener:

Listener	MOBs
ar	89
bc	11
cb	69
d1	28
de	17
dp	12
dt	7
dw	41
hb	17
jw	20
jy	15
mc	20
mf	14
mu	29
mx	6
sr	50
vm	47

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	CAN	DEU	ENG	ENG	ENG	FRA	FRA	HOL	HOL	SAR	SWE	USA	USA
432	HMB	Hammam Bou Hadjar	ALG	00													
360	ASN	Ascension Is.	ASC	01													
369	ZDX	Saint Johns	ATG					00		23		00					
270	FLO	Flores	AZR	23	5				02	23		23				22	
331	SC	Flores	AZR							00							
380	FIL	Horta Faial	AZR	00			02		23	07	23		22				

420	PI	Pico	AZR	00														
428	GC	Graciosa	AZR	00				23		00		23						
220	TUI	Tucuruí	BRA							01								
260	FLZ	Fortaleza	BRA							02								
275	MSS	Mossoro	BRA							00								
280	SLI	San Luis	BRA							00								
350	STM	Santarem	BRA					23										
360	JAC	Jacare a Canga	BRA							00								
365	CVL	Caravelas	BRA							00								
410	PEL	Pelada (Manaus)	BRA							02								
220	BX	Blanc Sablon, QC	CAN				01		02	00		23						
245	CB	Cambridge Bay, NU	CAN													15		
263	QY	Sydney, NS	CAN				01			22		23						
276	YHR	Chevery, QC	CAN				02			21		23						
280	QX	Gander, NL	CAN				01		02	23		23						
281	CA	Cartwright, NL	CAN				01		02	01		23						
305	LT	Alert, NU	CAN				01					00				15		
305	YQ	Churchill, MB	CAN									07						
323	UWP	Argentia, NL	CAN				01			01		04						
326	FC	Fredericton, NB	CAN				03											
340	YY	Mont Joli, QC	CAN				01			01		00						
350	DF	Deer Lake, NL	CAN				01	00	23	03	22	23						
356	AY	St. Anthony, NL	CAN				01			04	22	04	23					
358	YKG	Kangiqsujuaq, QC	CAN									08						
360	PN	Port Menier Anticosti I., QC	CAN				02			07								
364	2B	Springdale, NL	CAN				01					23						
370	GR	Grindstone, QC	CAN				05											
378	HO	Hopedale, NL	CAN				02					07						
378	UX	Hall Beach, NU	CAN									07						
385	NA	Natashquan, QC	CAN				23			07		07						
390	JT	Stephenville, NL	CAN				00			02	00	04						
392	ML	Charlevoix, QC	CAN				00			01		04						
396	JC	Rigolet, NL	CAN				00			02	00	23						
520	F9	Miramichi Chatham, NB	CAN				03											
283.5	NA	Punta Lantaila	CNR	23														
376	HIE	Hierro	CNR	01														
274	SAL	Sal	CPV	23														
344	ZIY	Grand Cayman Georgetown	CYM									07						

