

**NDB LIST 'CHANNELS CLE' No. 189**

275 - 425 kHz 25 Dec 2014 - 6 Jan 2015, midday-midday local time

**COMBINED RESULTS  
REST OF THE WORLD****Try to log one NDB with its nominal frequency on each of  
the 151 'channels' - nnn.0 / nnn.5 from 275 kHz to 425 kHz  
(or the 101 channels from 325 kHz to 425 kHz)**

For overall statistics, please see the covering email.

**Reporters:**

AUS	TA	<b>et</b>	Edgar Twining, Moonah
AUS	TA	<b>rw</b>	Bob Warren, Moonah
CAN	BC	<b>sm</b>	Steve McDonald, Mayne Island
CAN	NS	<b>vm</b>	Vernon Matheson, Truro
CAN	ON	<b>gr</b>	Graham Collins, Embrun, near Ottawa
CAN	ON	<b>ku</b>	Marc Kulbacki, Windsor
CAN	ON	<b>tw</b>	Tony Ward, Whitby, Nr Toronto
CAN	QC	<b>gp</b>	Guillaume Perron, Montreal
HWA		<b>mx</b>	Mike Tuggle, Kaneohe, Hawaii
USA	AZ	<b>bc</b>	Bob Coomler, Tucson
USA	CA	<b>dn</b>	Don Tomkinson, Upland
USA	CA	<b>ir</b>	Iden Rogers, Nr Grass Valley, 50 mi NNE of Sacramento
USA	CA	<b>pa</b>	Phil Atchley, Merced, Central California
USA	CO	<b>ac</b>	Anthony Casorso, Westminster
USA	FL	<b>cg</b>	Craig Cook, Oviedo
USA	MI	<b>wl</b>	Bill Cromwell, Houghton Lake
USA	MO	<b>dp</b>	Dick Palmer, Foristell
USA	MT	<b>sf</b>	Steve Flood, Turah
USA	NH	<b>jc</b>	John Collins, Charlestown
USA	NJ	<b>ge</b>	George Muha, Cream Ridge
USA	NJ	<b>rs</b>	Bill Riches, Cape May
USA	OR	<b>sr</b>	Steve Ratzlaff, La Grande, NE Oregon
USA	TX	<b>ch</b>	Chuck Dobbins, Alpine
USA	TX	<b>du</b>	Douglas Springfield, New Chapel Hill, NE Texas
USA	VA	<b>mb</b>	Mike Trowbridge, Catlett
USA	WA	<b>so</b>	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)

## CHANNEL CHOICES

(The very long 'Beacons Heard' list is near the end this time)

The radio country and the Ident of the beacon logged by each listener on each channel

kHz	AUS TA et	AUS TA rw	CAN BC sm	CAN NS vm	CAN ON gr	CAN ON ku	CAN ON tw	CAN QC gp	HWA mx	USA AZ bc	USA CA dn	USA CA ir	USA CA pa	USA CO ac	USA FL cg	USA MI wl	USA MO dp	USA MT sf	USA NH jc	USA NJ ge	USA NJ rs	USA OR sr	USA TX ch	USA TX du	USA VA mb	USA WA so	kHz	
275	VI-CWS	VI-CWS	NE-HIN	QC-R1	QC-R1		MB-AV	QC-R1		OK-GUY	OK-GUY	OK-GUY	NE-HIN	MB-AV	IL-RF		FL-FPR	WY-GEY	NY-BBN	QC-R1		ND-SF		QC-R1	NC-RU	NE-HIN	275	
276	QD-TVL	QD-TVL		QC-YHR	QC-YHR	ON-YEL	ON-YEL	QC-YHR						ON-YEL		ON-YEL	MB-ZTH	ON-YEL	ON-YEL	QC-YHR	ON-YEL			ON-YEL	ON-YEL		276	
277			ALS-ACE	NU-YLC	NU-YLC		NU-YLC							MN-OT			MN-OT	MN-OT	SK-V2			MN-OT		MN-OT	MN-OT		277	
278	NZL-WS	NZL-WS	BC-1U	QC-NM	MI-ADG	MI-ADG	QC-NM	QC-NM		NM-CEP	NM-CEP	NM-CEP	QC-NM	QC-NM	SC-EOE	MI-ADG	CUB-URC	NM-CEP	ME-PQ	QC-NM	QC-NM	NM-CEP		QC-NM	QC-NM		278	
279				GRL-SI	NY-OZ		NY-OZ										NY-OZ		GRL-SI	MA-CQX				NY-OZ	MA-CQX		279	
280			WY-GYZ	BRA-SLI	NL-QX		GA-MQW	NL-QX		WY-GYZ	WY-GYZ		WY-GYZ	GA-MQW	NL-QX		NL-QX	WY-GYZ	GA-MQW	NL-QX	NL-QX	WY-GYZ		NL-QX	GA-MQW		280	
281	TA-DPO	TA-DPO	ALS-CRN	NL-CA	NL-CA		NL-CA	NL-CA	ALS-CRN	MO-DMO			MO-DMO	MO-DMO	MO-DMO		NL-CA	MO-DMO	NL-CA	NL-CA				MO-DMO	MO-DMO		281	
282				OH-OXD	OH-OXD	OH-OXD	OH-OXD			CA-GWF	CA-GWF	CA-GWF	CA-GWF	OH-OXD	OH-OXD		MN-ROS		OH-OXD			CA-GWF		OH-OXD	OH-OXD		282	
283			ALS-DUT	ON-PT	ON-PT	ON-PT	ON-PT		ALS-DUT		ALS-DUT		ALS-DUT	ON-PT	ON-PT		ON-PT		ON-PT	ON-PT		ALS-DUT		ON-PT	ON-PT		283	
284			MB-QD	NU-RT	NU-RT		WV-RQY			MS-IDL	MB-QD		MB-QD	LA-VIV	LA-VIV		MB-QD	MB-QD	VA-PTB	WV-RQY	VA-PTB	MB-QD		NU-RT	WV-RQY	WA-FHR	284	
285				QC-UHA			QC-UHA																				285	
286	NZL-CC	NZL-CC	MT-EKS				MT-EKS			MT-EKS	MT-EKS	MT-EKS	MT-EKS	MT-EKS				MT-EKS	MT-EKS				MT-EKS		MT-EKS		286	
287	SA-LEC	SA-LEC	MB-ZWG		MB-ZWG		MB-ZWG						AB-PE	AB-PE				AB-PE	AB-PE				AB-PE		AB-PE		287	
288																											288	
289				QC-YLQ	QC-YLQ	QC-YLQ	QC-YLQ	QC-YLQ										QC-YLQ		QC-YLQ	QC-YLQ	QC-YLQ			QC-YLQ	QC-YLQ		289
290	NW-SGT	NW-SGT	BC-YYF				SK-QR			BC-YYF	BC-YYF	BC-YYF	SK-QR	BC-YYF				BC-YYF	BC-YYF	NU-YYH			BC-YYF		SK-QR		BC-YYF	290
291				QC-9Q	QC-9Q		QC-9Q											QC-9Q		QC-9Q	QC-9Q				QC-9Q	QC-9Q		291
292			AB-ZET										AB-ZET	AB-ZET				AB-ZET	AB-ZET				AB-ZET		AB-ZET		292	
293	NW-COM	NW-COM	BC-MB										BC-MB	WY-TOR				BC-MB	BC-MB				BC-MB		NE-FBY		BC-MB	293
294																											294	
295			AB-8C											AB-8C				AB-8C	AB-8C						AB-8C		295	
296	TA-FLI	TA-FLI	OR-LGD				MB-M4										MB-M4	OR-LGD							TX-ICF		296	





355			ON-YWP	MD-CGE	ON-YWP	ON-YWP	ON-YWP	ON-YWP				ON-YWP	ON-YWP	GA-CS		ON-YWP		MD-CGE	ON-YWP	MD-CGE	ON-YWP	ON-YWP	ON-YWP	MD-CGE		355		
356	VI-EN	NN-TN	NT-ZF	QC-YBG	NL-AY	IN-IUL	NL-AY	QC-YBG		KS-PTT	OR-MEF	BC-ON	KS-PTT	SK-ZXE	IL-PI		SK-ZXE	OR-MEF	RI-AR	NL-AY		KS-PTT	NE-ODX	NL-AY	IN-IUL	NT-ZF	356	
357							NC-IM										NC-IM		NC-IM				NC-IM	NC-IM			357	
358			ALS-SIT	NL-NL	NY-OG		NY-OG	NY-OG						MN-CKC			MN-CKC		NY-OG				MN-CKC	MN-CKC	NY-OG		358	
359	NW-NWA	NW-NWA	MT-SDY	GRL-NA		MI-GYG	MO-DO		BC-YQZ	TX-SDR	MT-SDY	BC-YQZ	BC-YQZ	BC-YQZ	IL-CZB	MI-GYG	BC-YQZ	ID-BO	NH-AS	NY-MS		BC-YQZ	BC-YQZ	BC-YQZ	NH-AS	MT-SDY	359	
360			MN-SW	ASC-ASN	QC-PN	QC-PN	QC-PN	QC-PN	VOI-OX				QC-PN	QC-PN	VRG-BFI		QC-PN	MN-SW	QC-PN	QC-PN			QC-PN	QC-PN	FL-PI		360	
361	VUT-BA		AB-E3	NC-HB		NC-HB	NC-HB							AB-E3	NC-HB		NC-HB	AB-E3	NC-HB	NC-HB		AB-E3	AB-E3	AB-E3	NC-HB		361	
362	VI-BOL	VI-BOL	NU-YZS	GRD-GND	ON-SB	ON-SB	ON-SB	ON-SB	QC	MT-RPX	MT-RPX	MT-RPX	AB-6T	ON-SB	ON-SB	ON-SB	GRD-GND	MT-RPX	CT-JWE	ON-SB	ON-SB	AB-6T	AR-HPC	NU-YZS	ON-SB	MT-RPX	362	
363				NJ-RNB	NJ-RNB	NJ-RNB	NJ-RNB	NJ-RNB		NJ-RNB	NJ-RNB			NJ-RNB	NJ-RNB		NJ-RNB		NJ-RNB	NJ-RNB	NJ-RNB		NJ-RNB	NJ-RNB	NJ-RNB		363	
364	FJI-MI		BC-4D	NS-ZHZ			NS-ZHZ	NS-ZHZ									BC-4D		NS-ZHZ	NS-ZHZ		BC-4D			NS-ZHZ		364	
365	NW-WLM	NW-WLM	KS-HQG	EQA-PAL	ND-AA	MI-TV	ND-AA			KS-HQG	EQA-PAL	KS-HQG	EQA-PAL	TX-FT	EQA-PAL	MI-TV	EQA-PAL	KS-HQG	MA-FIT	SC-DYB		KS-HQG	KS-HQG	EQA-PAL	SC-DYB		365	
366	NZL-SF	NZL-SF	QC-YMW	NB-ZMN	ME-AU	QC-YMW	QC-YMW	QC-YMW	FSM-PNI	QC-YMW			QC-YMW	IA-EOK	QC-YMW	QC-YMW	QC-YMW	QC-YMW	ME-AU	GA-EZM	QC-YMW	QC-YMW	IA-EOK	QC-YMW	GA-EZM		366	
367			MB-R5	VA-FVX	VA-FVX	VA-FVX	VA-FVX						MB-R5	MB-R5	VA-FVX		VA-FVX		VA-FVX	VA-FVX	VA-FVX		MB-R5	VA-FVX	VA-FVX		367	
368			MN-PNM	MA-IMR	ON-ZYZ	ON-ZYZ	ON-ZYZ	ON-ZYZ	BC-ZP	TX-AN	TX-AN	BC-ZP	BC-ZP	BC-SX	ON-ZYZ		BC-ZP	MA-IMR	VA-TEC	ON-ZYZ	BC-ZP	TX-AN	BC-ZP	BC-ZP	KY-EU	BC-ZP	368	
369				ATG-ZDX			GA-CXU			ATG-ZDX			ATG-ZDX	ATG-ZDX	GA-CXU		GA-CXU		NJ-TT	ATG-ZDX	ATG-ZDX		ATG-ZDX	ATG-ZDX	GA-CXU		369	
370			MB-YBV	CUB-UMC		OK-OUN	OK-OUN			OK-OUN	CA-PAI	OK-OUN	MB-YBV	MB-YBV	OK-OUN		MB-YBV	OK-OUN	MB-YBV	CUB-UMC		OK-OUN	MB-YBV	MB-YBV	OK-OUN		370	
371	NW-TRE	QD-HUG	QC-GW	QC-GW	MO-PUR	MI-AZ	QC-GW	QC-GW		MT-ITU	CA-UK	MT-ITU	MT-ITU	MT-ITU	MO-PUR		QC-GW	MT-ITU	TN-FQW	QC-GW		WA-YK	MT-ITU	QC-GW	TN-FQW	MT-ITU	371	
372			SK-ZPA	GRL-OZN	PA-CQD	OH-MF	PA-CQD						OH-MF	SK-ZPA	GA-UQN		SK-ZPA	SK-ZPA	OH-MF	GA-UQN		SK-ZPA	SK-ZPA		GA-UQN		372	
373			CO-TF	VA-AEA	QC-YXK	QC-2Q	QC-2Q	QC-2Q	HWA-HHI	CO-TF	CO-TF	OR-MF	CO-TF	CO-TF	VA-AEA		QC-YXK	CO-TF	VA-AEA	QC-YXK	QC-2Q	CO-TF	CO-TF	QC-YXK	VA-AEA		373	
374	TA-TTR	NW-WLG	CA-LV				MN-EE			CA-LV	CA-LV	BC-EX	BC-EX	CA-LV			MN-EE	BC-EX	MN-EE			CA-LV	KS-EX	BC-EX		BC-EX	374	
375			MB-BM	VA-PJS	ON-7B	ON-7B	ON-7B	ON-7B	NT-FS	OK-DW	OK-DW		OK-DW	MB-BM	OK-DW		MB-BM	NT-FS	VA-PJS	ON-7B	ON-7B	WY-CP	OK-DW	MB-BM	AR-DS	NT-FS	375	
376			ON-YAG	BAH-ZIN	BAH-ZIN	OH-LC	BAH-ZIN	BAH-ZIN		BAH-ZIN	BAH-ZIN		BAH-ZIN	BAH-ZIN	OH-LC		BAH-ZIN	ON-YAG	OH-LC	BAH-ZIN	BAH-ZIN	ON-YAG	BAH-ZIN	BAH-ZIN	GA-BHC		376	
377	VI-EPP	VI-EPP	KS-EHA	ON-YRR	ON-YRR		ON-YRR	ON-YRR		KS-EHA	KS-EHA	KS-EHA	ON-YRR	NE-BUB	XUN-S		ON-YRR	KS-EHA	ON-YRR	ON-YRR	ON-YRR	KS-EHA	NE-BUB	ON-YRR	ON-YRR		377	
378			OR-OT	QC-RJ	QC-RJ	QC-RJ	QC-RJ	QC-RJ	OR-OT	OR-OT	OR-OT	BC-AP	BC-AP	OR-OT	OR-OT	QC-RJ	QC-RJ	OR-OT	NL-HO	QC-RJ	QC-RJ	OR-OT	OR-OT	QC-RJ	QC-RJ	OR-OT	378	
379			SK-YBE	NC-BRA	NC-BRA	NC-BRA	ON-YPQ	ON-YPQ		LA-LRR	LA-LRR		AB-ZEG	LA-LRR	LA-LRR		AB-ZEG	NC-BRA	NC-BRA	ON-YPQ	AB-ZEG	NC-BRA	ON-YPQ	ON-YPQ	NC-BRA		379	
380	NW-COR	NW-COR	KS-OEL	AZR-FIL		GA-UMB	GA-UMB			KS-OEL	TX-BBD	KS-OEL	KS-OEL	WY-GC	GA-UMB		WY-GC	WY-GC	GA-UMB	GA-UMB		KS-OEL	KS-OEL	KS-OEL	GA-UMB		380	
381				SC-MNI			SC-MNI								SC-MNI				SC-MNI	SC-MNI					SC-MNI	SC-MNI		381
382	NZL-WU	NZL-WU	ON-YPL	TRD-TRI	ON-YPL	MI-IRS	ON-YPL	ON-YPL	BC-YE	MEX-GRN	MEX-GRN	MEX-GRN	BC-YPW	ON-YPL	IL-SP		ON-YPL	ON-YPL	ON-YPL	ON-YPL	ON-YPL	WA-AW	ON-YPL	ON-YPL	ON-YPL	BC-YE	382	
383	VI-WON	SA-PAG	NE-CNP				NE-CNP			NE-CNP	NE-CNP	NE-CNP	NE-CNP	ID-PI			NE-CNP	ID-PI				ID-PI	NE-CNP	NE-CNP		NE-CNP	383	

384			SK-3F	NC-JB	QC-F8		QC-F8	QC-F8						NC-JB		NC-JB		NC-JB	NC-JB		SK-3F	QC-F8	QC-F8	NC-JB		384	
385	FJ-AL	FJ-AL	ALS-EHM	CLM-ARA	GA-EMR	IN-UWL	ON-ZDH	QC-YN	GUM-AJA	GTM-TKL	BC-WL	BC-WL	SK-QV	LA-DXB	GDL-PTP		GTM-TKL	BC-WL	GDL-PTP	GA-EMR	GA-EMR	CA-MR	GTM-TKL	BC-WL	GTM-TKL	SK-QV	385
386	NW-QDI	NW-QDI	MT-HAU	QC-D8			QC-D8	QC-D8		KS-SYF	KS-SYF	KS-SYF	KS-SYF	MT-HAU			MT-4N	MT-HAU	NH-GMA			MT-HAU	QC-D8	QC-D8	MT-HAU	386	
387			IA-CAV	NB-6E			NB-6E			IA-CAV			IA-CAV	IA-CAV			IA-CAV	IA-CAV	NB-6E				IA-CAV	IA-CAV	NB-6E	387	
388			FL-AM	FL-AM	FL-AM	FL-AM	ON-H7	ON-H7		FL-AM	MO-GLY	AB-JW	FL-AM	AB-JW	KY-CDX		FL-AM	WA-CRK	PA-UN	FL-AM	FL-AM	WA-CRK	AB-JW	AB-JW	KY-CDX	AB-JW	388
389	SA-PLC	SA-PLC	NE-CSB	POR-CP			MA-PVC			NE-CSB	NE-CSB	NE-CSB	NE-CSB	NE-CSB	NE-CSB		NE-CSB	BC-YWB	MA-PVC	MA-PVC		BC-YWB	NE-CSB	BC-YWB	MA-PVC	BC-YWB	389
390			ALS-HBT	NL-JT	NL-JT	NL-JT	NL-JT	NL-JT	ALS-HBT		ALS-HBT			IA-BR	GA-OWC		IA-BR	ALS-HBT	NL-JT	NL-JT	NL-JT	ALS-HBT	IA-BR	NL-JT	NL-JT		390
391			PTR-DDP	PTR-DDP	PTR-DDP	PTR-DDP	ON-OO	ON-3B	PTR-DDP	PTR-DDP	PTR-DDP	PTR-DDP	PTR-DDP	PTR-DDP	PTR-DDP		PTR-DDP	BC-TK	PTR-DDP	PTR-DDP	PTR-DDP	PTR-DDP	PTR-DDP	ON-3B	ON-3B	BC-TK	391
392	TA-STH	TA-STH	MN-XVG	QC-ML	QC-ML	QC-ML	QC-ML	QC-ML		WY-PNA	WY-PNA	WY-PNA	QC-ML	LA-ML		QC-ML	QC-ML	WY-PNA	QC-ML	GA-JNM	QC-ML	WY-PNA	NE-FMZ	QC-ML	QC-ML	WY-PNA	392
393			TX-BR				ON-2M		FSM-UKS	TX-BR				OK-BZ	TX-BR		TX-BR		NC-FGP	NC-FGP			TX-BR	ON-2M	NC-FGP		393
394			ALS-RWO	IN-AI	TN-DTE		TN-DTE		ALS-RWO	IA-SP	ALS-RWO	BC-DQ	BC-DQ	BC-DQ	TN-DTE		TN-DTE	BC-DQ	TN-DTE	TN-DTE		BC-DQ	BC-DQ	BC-DQ	TN-DTE	BC-DQ	394
395	NW-CBA	NW-PMQ	KS-ULS	BRA-PNC			GA-CWV			KS-ULS	KS-ULS	MB-YL	MB-YL	SK-L7	GA-CWV		MB-YL	KS-CA	MA-CWV	GA-CWV		MB-YL	SK-L7	MB-YL	GA-CWV	MB-YL	395
396			QC-YPH	NL-JC	NL-JC	QC-YPH	QC-YPH	NL-JC		TX-CRS	QC-YPH	QC-YPH	QC-YPH	OK-CQB	KY-GOI		QC-YPH		QC-YPH	QC-YPH	NJ-NEL	ALS-CMJ	TX-CRS	QC-YPH	VA-UV		396
397			SK-ZSS	NB-ZST	ON-ZHA	ON-ZHA	ON-ZHA			CA-SB	CA-SB	CA-SB	SK-ZSS	MO-JE	IL-CIR		ON-ZHA	CA-SB	MA-OW	NB-ZST	ON-ZHA	CA-SB		ON-ZHA	IL-CIR	SK-ZSS	397
398	QD-GDI	QD-GDI	SK-3D	IN-HFY		IN-HFY	IN-HFY			IN-HFY				IN-HFY	IN-HFY		IN-HFY	AB-YOD	IN-HFY			AB-YOD	IN-HFY	IN-HFY	IN-HFY		398
399			ON-ZHD				ON-ZHD		ALS-SRI					ON-ZHD	ON-ZHD		MB-4M	ON-ZHD	ON-ZHD			ON-ZHD	ON-ZHD	MB-4M			399
400			MN-CKN	CLM-PIE	MI-CI	GA-UWI	MI-CI	NY-PTD	BC-QQ	CO-FN	BC-QQ	CO-FN	NE-AHQ	MEX-ENS	GA-UWI		BC-QQ	CO-FN	CLM-PIE	GA-UWI	NY-PTD	MEX-ENS	NE-AHQ	BRA-GJM	MD-NHK	BC-QQ	400
401	NW-ARM	NW-ARM	ON-YPO	ON-YPO	ON-YPO	ON-YPO	ON-YPO	QC-Y8		ON-YPO			ON-YPO	ON-YPO	ON-YPO		ON-YPO		ON-YPO	QC-Y8	ON-YPO	ON-YPO	ON-YPO	ON-YPO	QC-Y8		401
402			SK-L4	SPM-MQ			MA-LW	MA-LW		NM-CV	NM-CV		SK-M3	NM-CV	CUB-UIA		SK-L4	SK-M3	MA-LW	MA-LW		SK-M3	NM-CV	NM-CV	MA-LW		402
403			AZ-AZC	ON-ZTO	ON-ZTO	ON-ZTO	ON-ZTO		SMA-TUT	AZ-AZC	AZ-AZC	AZ-AZC	AZ-AZC	AZ-AZC			ON-ZTO	AZ-AZC	ON-ZTO	ON-ZTO		AZ-AZC	AZ-AZC	ON-ZTO	ON-ZTO		403
404	NW-MQD	NW-NYN	ALS-GCR	SC-CKI	NB-YSL	ON-ZR	ON-ZR	NB-YSL	CA-MOG	CA-MOG	CA-MOG	MT-OLF	MT-OLF	CA-MOG	SC-CKI	NB-YSL	MT-OLF	CA-MOG	SC-CKI	NB-YSL	NB-YSL	MT-OLF	NE-FNB	NB-YSL	SC-CKI	CA-MOG	404
405			AB-2K	PRG-CON		QC-7L	QC-7L					AB-9G	AB-9G	XUN-5		QC-7L	AB-9G	QC-7L	QC-7L	QC-7L		AB-9G	AB-9G	PRG-CON	QC-7L	AB-9G	405
406			SK-YLJ	NC-TT			NC-TT		SK-YLJ	SK-YLJ	SK-YLJ	SK-YLJ	SK-YLJ	SK-YLJ	NC-TT		SK-YLJ	SK-YLJ	NC-TT	NC-TT		SK-YLJ	SK-YLJ	SK-YLJ	NC-TT	SK-YLJ	406
407	NW-GDH	NW-GDH	CO-CO	QC-ZHU	QC-ZHU	OH-IL	QC-ZHU	QC-ZHU		AZ-CHD	AZ-CHD	CO-CO	CO-CO	KS-HRU	QC-ZHU	QC-ZHU	QC-ZHU	CO-CO	GA-BZ	QC-ZHU	MD-OX	AZ-CHD	CO-CO	QC-ZHU	WI-AQ		407
408			KS-JDM	FL-SFB		ON-SN	ON-SN			KS-JDM	WA-MW	AB-Z7	AB-Z7	WA-MW	FL-SFB		ON-SN	KS-JDM	ON-SN	SC-LQK		KS-JDM	WA-MW	WA-MW	FL-SFB	WA-MW	408
409				ON-YTA	ON-YTA	ON-YTA	ON-YTA	ON-YTA			ON-YTA		ON-YTA				ON-YTA	ON-YTA	ON-YTA	ON-YTA		ON-YTA	ON-YTA	ON-YTA	ON-YTA		409
410			MT-GDV	BRA-FOZ	NC-JU	IN-BA	NC-JU			AZ-DAO	AZ-DAO	MT-GDV	MT-GDV	AZ-DAO	IN-BA		AZ-DAO	MT-GDV	MI-SO	IN-BA	NC-JU	AZ-DAO	AZ-DAO	CLM-ECB	NC-JU	BC-ZQ	410
411							IA-SDA		ALS-ILI		IA-SDA		IA-SDA	IA-SDA	IA-SDA		IA-SDA	IA-SDA	IA-SDA			IA-SDA	IA-SDA	IA-SDA	IA-SDA		411
412			SK-1W	NC-CTZ			NC-CTZ		VUT-SON	TX-BWR	TX-BWR	TX-BWR	TX-BWR	TX-BWR	NC-CTZ		TX-BWR		NC-CTZ	JHH	NC-CTZ	TX-BWR	TX-BWR	GA-JHH	GA-JHH		412







USA	USA	ID			1							1	1	1	1	3				5			4	1	1		1		
USA	USA	IL															5										2		
USA	USA	IN				2	1	7	3	1		2				2	4		2		3	4	1		2	3	3		
USA	USA	KS			5							8	4	4	4	2	1			7				6	4	1			
USA	USA	KY						1								2	2		1								2		
USA	USA	LA										2	3	2	1	6	3		1					1	2	1	1		
USA	USA	MA				1				2	1									7	3					3			
USA	USA	MD				2	1												1		3		3			4			
USA	USA	ME						1												3						1			
USA	USA	MI				1	2	3	8	2	1						1	5	1		2	1		1	1	1	1		
USA	USA	MN			6	1	1			6		1	1		1	6	1	1	7	5	2			4	5	5	2		
USA	USA	MO						1	1	2		1	1		1	2	2			1						1	1		
USA	USA	MS			1			1				2			1	1	1							1	1				
USA	USA	MT			4					1		4	7	9	6	4			4	8				6	3	2		9	
USA	USA	NC				7	3	2		6							6		5		10	7	3		3	3	11		
USA	USA	ND						1		2								1	1					2	1	1			
USA	USA	NE			5					2		5	3	2	8	5	1	6	3					3	10	5		2	
USA	USA	NH																		3	1						1		
USA	USA	NJ				1	1	1	1	1	1	1	1			1	1		1		2	1	2	4	1	1	1		
USA	USA	NM										3	4	1		1				1				4	2	1			
USA	USA	NY						2		2	2								1		3	1	2			1	2		
USA	USA	OH				2	1	7		3					2	1	2		1		4					2	4		
USA	USA	OK			1			1		2		5	3	3	3	3	3		2	1				2	2		1		
USA	USA	OR			2							2	3	2		1				5				4	1			2	
USA	USA	PA				1	1			1											1						1		
USA	USA	RI																			1								
USA	USA	SC				2	1	1		1						1	4		1		6	5				1	6		
USA	USA	SD														1													
USA	USA	TN						2		1							3		1		2	1					2		
USA	USA	TX			2	1				1		10	6	3	4	5	3		4	1				2	6	3	1		
USA	USA	VA				4	2	1		2						2			1		6	2	2			1	7		
USA	USA	VT																		1									
USA	USA	WA			1								2	2	1	1				5				5	1	1		5	
USA	USA	WI																									1		
USA	USA	WV								1												1					1		
USA	USA	WY			1							2	2	1	1	2			1	4				3				1	
VOI	Volcano Is. / Iwo Jima	-																											
VRG	Virgin Is.(Br)	-															1												
VUT	Vanuatu	-	1																										
WAL	Wallis et Futuna	-																											
XON	Offshore	BC																											1
XUN	UNID	-															2												
Cou	Country	St	AUS TA et	AUS TA rw	CAN BC sm	CAN NS vm	CAN ON gr	CAN ON ku	CAN ON tw	CAN QC gp	HWA mx	USA AZ bc	USA CA dn	USA CA ir	USA CA pa	USA CO ac	USA FL cg	USA MI wl	USA MO dp	USA MT sf	USA NH jc	USA NJ ge	USA NJ rs	USA OR sr	USA TX ch	USA TX du	USA VA mb	USA WA so	

**LISTENING TIMES:**

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

UTC (hh)	AUS TA et	AUS TA rw	CAN BC sm	CAN NS vm	CAN ON gr	CAN ON ku	CAN ON tw	CAN QC gp	HWA mx	USA AZ bc	USA CA dn	USA CA ir	USA CA pa	USA CO ac	USA FL cg	USA MI wl	USA MO dp	USA MT sf	USA NH jc	USA NJ ge	USA NJ rs	USA OR sr	USA TX ch	USA TX du	USA VA mb	USA WA so
00:00 - 00:59				11	23	10													14	4	4					
01:00 - 01:59	14		1	3	12	18	3								1		10		23	5	4		2		1	
02:00 - 02:59				33	21		22							1		2	31		20	9	11	6	11	20	2	
03:00 - 03:59				22	1		15				10	14	4				10	23	1	13	3	19	22	22	25	3
04:00 - 04:59			1	6		14	15	5		17	8	10	22	17	8	18	11	7		2		22	27	22	56	2
05:00 - 05:59				5		6	14	16	2	41	13	13	31	16	8	1	5		2	7	7	31		28	14	2
06:00 - 06:59			2	2		9	12	16	3	11	13	8	32	9						15		15		13		7
07:00 - 07:59			2	1	4	4	5	4		11	12	6	12	8	1		2			2	5	13		13		8
08:00 - 08:59		1	8		4	6			9	1	8	6	1	17	14	1	9		2	5	9	6		8		10
09:00 - 09:59		3	64	1	2	1		3	6		6			23	21	2	8		12			2				6
10:00 - 10:59			3					1	1		4			10	24		13	21	37	5	1					10
11:00 - 11:59		5		1			1							12	1		10	29		6			31			2
12:00 - 12:59		12	12		7		2		9					10			14	16			1					
13:00 - 13:59	41	4	6						1	2							4	7								
14:00 - 14:59		1	2			1			1									2				3		1	4	
15:00 - 15:59			8			1			4								1									
16:00 - 16:59		1					3		2								1									
17:00 - 17:59		9					4	1													6					
18:00 - 18:59								5													1					
19:00 - 19:59				9			10	1																		
20:00 - 20:59				6			12				3						1							1		
21:00 - 21:59																	1				3	3				
22:00 - 22:59		6					6	4	2											6	3					
23:00 - 23:59				4				4											1	9						
Totals:	55	51	109	104	74	70	124	60	40	83	77	57	102	123	78	24	131	105	112	91	58	117	93	129	102	50

**MOBs**

NDBs that were heard by one reporter only - 'Mine Only Beacons' !  
 A very long list this time and not very useful. They can be seen in the 'Beacons Heard' list below.

**STATISTICS TABLE**

Listener	No. of NDBs	Av km	Total km x 1000	Max km
AUS TA et	55	1431	79	3972

AUS TA rw	51	1523	78	3972
CAN BC sm	109	1936	211	6072
CAN NS vm	104	2300	239	7939
CAN ON gr	74	1028	76	3093
CAN ON ku	70	730	51	3079
CAN ON tw	124	1110	138	5615
CAN QC gp	60	741	44	2934
HWA mx	40	4433	177	9532
USA AZ bc	83	1663	138	5184
USA CA dn	77	1989	153	5636
USA CA ir	57	1732	99	5710
USA CA pa	102	2369	242	6119
USA CO ac	123	1565	193	5332
USA FL cg	76	1284	98	3420
USA MI wl	24	661	16	1348
USA MO dp	131	1645	216	4688
USA MT sf	105	1043	110	3322
USA NH jc	112	1303	146	5380
USA NJ ge	91	1144	104	4191
USA NJ rs	58	1115	65	2751
USA OR sr	117	1443	169	6156
USA TX ch	93	1972	183	5402
USA TX du	129	2274	293	7384
USA VA mb	102	829	85	2695
USA WA so	50	885	44	1952
<b>Averages:</b>	<b>85</b>	<b>1544</b>	<b>133</b>	<b>4726</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)

**In this event some listeners chose personal handicaps to make the Challenge more interesting  
e.g. some aimed to maximise the total distance or the number of radio countries heard.**

**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	AUS TA et	AUS TA rw	CAN BC sm	CAN NS vm	CAN ON gr	CAN ON ku	CAN ON tw	CAN QC gp	HWA mx	USA AZ bc	USA CA dn	USA CA ir	USA CA pa	USA CO ac	USA FL cg	USA MI wl	USA MO dp	USA MT sf	USA NH jc	USA NJ ge	USA NJ rs	USA OR sr	USA TX ch	USA TX du	USA VA mb	USA WA so
ALS	-	277	ACE	Homer Kachemak			13																							
ALS	-	281	CRN	Sparrevohn Cairn Mtn			15					9																		
ALS	-	283	DUT	Dutch Harbor Unalaska			15					8		8		7										14				

















USA	AZ	410	DAO	Fort Huachuca						5	4			12			10				5	3					
USA	CA	282	GWF	Gen. William J Fox						6	20	6	5								7						
USA	CA	344	FCH	Fresno Chandler.		14																			8		
USA	CA	370	PAI	Pacoima							20																
USA	CA	371	UK	Ukiah Laughlin							5																
USA	CA	374	LV	Livermore Reiga		13				4	3			8													
USA	CA	385	MR	Monterey Munso																							
USA	CA	397	SB	San Bernardino Petis						4	20	3						10									
USA	CA	404	MOG	Montague					6	5	3			5				11							6		
USA	CO	321	FT	Denver							6			8			12	12									
USA	CO	329	TAD	Trinidad						5		5						11									
USA	CO	373	TF	Pueblo		9				5	5		5	9				10									
USA	CO	400	FN	Fort Collins						4		3						10									
USA	CO	407	CO	Colorado Springs		8						6	4					11									
USA	CT	362	JWE	Oxford														0									
USA	FL	275	FPR	Fort Pierce																							
USA	FL	326	PKZ	Pensacola															4								
USA	FL	332	FIS	Key West			2			6									2	8							
USA	FL	344	JA	Jacksonville				2																			
USA	FL	349	AAF	Apalachicola															1						3		
USA	FL	360	PI	St Petersburg Clearwater																					4		
USA	FL	388	AM	Tampa		8	3	1	4					4					3	5							
USA	FL	408	SFB	Sanford			2								4										4		
USA	GA	280	MQW	Mc.Rae					2					7				2							4		
USA	GA	309	EEX	Swainsboro																					3		
USA	GA	316	FF	Peachtree City																							
USA	GA	335	AWS	Columbus																					2		
USA	GA	339	OP	Thomaston																					4		
USA	GA	340	JES	Jesup											9										4		
USA	GA	353	VV	Greensboro															1								
USA	GA	355	CS	Columbus											4												
USA	GA	366	EZM	Eastman															8						4		
USA	GA	369	CXU	Camilla					6						10		4								4		
USA	GA	372	UQN	Vidalia											8				8						4		
USA	GA	376	BHC	Baxley																					5		
USA	GA	380	UMB	Milledgeville					6		6				9				9	8					5		
USA	GA	385	EMR	Augusta				1											6	3							
USA	GA	390	OWC	Douglas											5												
USA	GA	392	JNM	Monroe																							
USA	GA	395	CWV	Claxton					2						8				11						4		
USA	GA	400	UWI	Dalton					4						10				11								
USA	GA	407	BZ	Statesboro															8								
USA	GA	412	JHH	Griffin																3					4		
USA	GA	414	AZE	Hazlehurst			3												8	2							
USA	GA	419	TX	Lawrenceville																							
USA	GA	424	RVJ	Reidsville			5			22				5			6	7	5	5	1	3	1		10	5	3
USA	IA	341	FO	Fort Dodge																							
USA	IA	345	PUF	Estherville															10								





USA MN	420	FQ	Fairmont			9	3			22			5	7		6	9	8			12				6	4	2		
USA MO	281	DMO	Sedalia										6	7		4	4	9			13				6		3	3	
USA MO	359	DO	Kansas City							16																			
USA MO	371	PUR	Marshall					8										10											
USA MO	388	GLY	Clinton											5															
USA MO	397	JE	Jefferson City														4												
USA MO	414	IEB	Lebanon						6																				
USA MO	416	RN	Kansas City							12																			
USA MS	284	IDL	Indianola										6																
USA MS	346	THJ	Laurel															9											
USA MS	349	GW	Greenwood			9			5				5			4	10								5	4			
USA MT	286	EKS	Ennis Big Sky			4				12			5	8	4	4	12			12	3				5		5	10	
USA MT	335	CVP	Helena										5	7	5				13	3				3				10	
USA MT	339	MKR	Glasgow Milk River										6	9	3	6	5				3				7	4	7	8	
USA MT	344	BKU	Baker											6	3														
USA MT	347	SBX	Shelby											9	4	6				12	3			4				8	
USA MT	359	SDY	Sidney			9								7														8	
USA MT	362	RPX	Roundup										5	6	4						4							8	
USA MT	371	ITU	Truly Great Falls										5		3	5	8				4					10		7	
USA MT	386	HAU	Helena			9											11				10				5	10		7	
USA MT	404	OLF	Wolf Point												5	5				10				5					
USA MT	410	GDV	Glendive			12									5	5					11								
USA MT	414	LYI	Libby																									6	
USA NC	275	RU	Salisbury																									4	
USA NC	338	POB	Fayetteville Pope																		1								
USA NC	346	VU	Albemarle																		2	23					3		
USA NC	357	IM	Keans Asheville							3									11	10						7	4		
USA NC	361	HB	Burlington			5			4	5								10	3		0	6				4	4		
USA NC	379	BRA	Asheville			3	1		1												10	23					5		
USA NC	384	JB	Lumberton			3															10	2					1		
USA NC	393	FGP	Fort Bragg																		10	11					4		
USA NC	406	TT	Sanford			2				2											10	3					4		
USA NC	410	JU	West Jefferson					3		2																0	3		
USA NC	412	CTZ	Clinton			2				4											10								
USA NC	417	HQT	Coats																			10					5		
USA NC	417	SLP	Shelby			3	2			2											4		10				3		
USA NC	423	SIF	Reidsville			4															5	10				3	1		
USA ND	275	SF	Williston Yuson																									14	
USA ND	345	GF	Grand Forks							3												12	11			3	10	7	
USA ND	365	AA	Fargo					12		4																			
USA NE	275	HIN	Chadron Whitney			1										3												10	
USA NE	293	FBY	Fairbury																			16					14		
USA NE	314	VTN	Valentine																		8					6			
USA NE	323	HJH	Hebron			12							6	7		7							13						
USA NE	329	PMV	Plattsmouth													7													
USA NE	347	AFK	Nebraska City							5			4													4			
USA NE	356	ODX	Ord																							4			
USA NE	377	BUB	Burwell																							4			









**'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	CZE my	DEU hw	ENG ag	ENG me	ENG px	FRA jj	HOL rb
360	ASN	Ascension Is. Wideawake.	ASC	02							
369	ZDX	Coolidge Saint Johns	ATG			02					
276	YHR	Chevery, QC	CAN			05	03		22		07
280	QX	Gander, NL	CAN			06	03				07
281	CA	Cartwright, NL	CAN			05	03				06
305	LT	Alert, NU	CAN			06					
305	YQ	Churchill, MB	CAN								03
329	YEK	Arviat Eskimo Pt, NU	CAN								23
340	YY	Mont Joli, QC	CAN			04					07
350	DF	Deer Lake, NL	CAN		03	04		02			07
356	AY	St. Anthony, NL	CAN			05		03		03	21
358	NL	St. Johns Signal Hill, NL	CAN								06
378	HO	Hopedale, NL	CAN			05		07			07
390	JT	Stephenville, NL	CAN			05		05			05
392	ML	Charlevoix, QC	CAN								07
396	JC	Rigolet, NL	CAN			06		05	23		07
407	ZHU	Hauts Bois St Hubert, QC	CAN								07
327	POR	Porto	POR	02							
389	CP	Lisbon Caparica	POR	02							
391	DDP	San Juan Dorado	PTR			04		06			02