NDB LIST CLE No. 220 **190 - 1740 kHz** **23 - 26 June 2017, "SUMMER MIDDAY EVENT"**

COMBINED RESULTS
RWW

For overall statistics, please see the covering email.

Reporters:

AUS	rw	Bob Warren, Blakeview
BRA	zm	Marcus Ramos, Sao Bernardo do Campo, SP
CAN	bt	Brian Butler, Hazelton
CAN	sm	Steve McDonald, Mayne Island
CAN	vm	Vernon Matheson, Truro
HWA	mx	Mike Tuggle, Kaneohe, Hawaii
TWN	hf	Hans Fong, Longtan
USA	so	Steven O'Kelley, The Dungeon, Nr Seattle
USA	ac	Anthony Casorso, Westminster
USA	bc	Bob Coomler, Tucson
USA	cg	Craig Cook, Oviedo
USA	dl	Dave Hollander, Phoenix, Arizona
USA	dn	Don Tomkinson, Upland
USA	dp	Dick Palmer, Foristell
USA	dt	Dave Tomasko, Galena
USA	du	Douglas Springfield, New Chapel Hill, NE Texas
USA	fy	Joe Farley, Downers Grove
USA	g4	George Muha, while at Waverly
USA	jb	Joe Miller, Troy
USA	mu	Mark Moulding, Ogden, Northern UT
USA	pa	Phil Atchley, Merced, Central California
USA	rs	Bill Riches, Cape May
USA	rt	Tom Rothlisberger, Brier
USA	sr	Steve Ratzlaff, Near Sahuarita, SE Arizona
USA	zi	Steve Zimmerman, Near Eagle

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

ITU	QRG	ID	Name	AUS rw	BRA zm	CAN bt	CAN sm	CAN vm	HWA mx	TWN hf	USA so	USA ac	USA bc	USA cg	USA dl	USA dn	USA dp	USA dt	USA du	USA fy	USA g4	USA jb	USA mu	USA pa	USA rs	USA rt	USA sr	USA zi
ALS	266	ICK	Nichols' Annette Island			18																						
AUS	203	HML	Hamilton	00																								
AUS	242	PKS	Parkes	00																								
AUS	248	WR	Woomera	03																								
AUS	266	MTG	MOUNT GAMBIER	03																								
AUS	272	MIA	Mildura	03																								
AUS	287	LEC	Leigh Creek	03																								
AUS	293	CDU	Ceduna	03																								
AUS	305	GTH	Griffith	03																								
AUS	311	EDN	Edinburgh	03																								
AUS	332	BHI	Broken Hill	03																								
AUS	341	CBP	Coober Pedy	00																								
AUS	371	WHA	Whyalla	03																								
AUS	380	COR	Corowa	00																								
AUS	389	PLC	Port Lincoln	03																								
AUS	407	SWH	Swan Hill	03																								
AUS	416	PF	Parafield	03																								
BRA	200	DAD	Diadema (SP)		15																							
BRA	210	ARX	Araxa (MG)		15																							
BRA	235	NVG	Naveagantes (SC)		15																							
BRA	275	GGT	Guaratingueta (SP)		15																							
BRA	280	RCL	Rio Claro (SP)		15																							
BRA	310	PSN	Piracununga (SP)		15																							
BRA	325	VGH	Varginha (MG)		15																							
BRA	330	RPR	Ribeirão Preto (SP)		15																							
BRA	330	YLA	Ilha (RJ)		15																							
BRA	360	RR	Vicente (SP)		15																							
BRA	370	IK	Bento (SP)		15																							
BRA	375	SAT	Santos (SP)		15																							
BRA	380	BRU	Bauru (SP)		15																							
BRA	410	IG	Guarulhos (SP)		15																							
BRA	415	PCL	Poços de Caldas (MG)		15																							
BRA	430	TBE	Taubaté (SP)		15																							
BRA	515	CPN	Campinas City GRAMA		15																							
BRA	1645	MLZ	Platform Merluza (SP)		15																							
CAN	200	UAB	Anahim Lake			18																						
CAN	200	YJ	Victoria				18				20															18		
CAN	201	YIF	St. Augustin					14																				
CAN	201	ZXU	Thames' London															16										
CAN	203	YBL	Campbell River				18																			18		
CAN	203	ZKI	Kitimat			18																						
CAN	206	QI	Yarmouth					17																	15			
CAN	207	CL	Charlo					17																				
CAN	207	FD	Brantford															18										
CAN	209	IB	Atikokan															16										
CAN	212	SJ	Saint John					17																	18			
CAN	214	LU	Cultus' Abbotsford				18				20															18		
CAN	216	ME	Matane					17																				
CAN	218	PR	Prince Rupert			18																						
CAN	219	W7	Pabok' Du Rocher-Pierce)					17																				
CAN	220	BX	Blanc Sablon / Lourdes de Blanc Sablon					17																				
CAN	223	YKA	Kamloops				18				21															21		
CAN	227	CG	Castlegar				18																					
CAN	229	PD	Port Hawkesbury					17																				
CAN	230	AC	Pleasant Lake (Yarmouth)					14																				
CAN	230	YD	Smithers			18																						
CAN	232	GP	Gaspe					17																				
CAN	233	QN	Nakina																									17
CAN	236	YZA	Ashcroft				18				20															21		
CAN	242	ZT	Port Hardy				18																			18		
CAN	243	YVB	Bonaventure					17																				
CAN	245	YZE	Gore Bay															18		16								17
CAN	248	KZ	Buttonville' Stouffville (Toronto)															16										
CAN	248	UL	Montreal					15																				
CAN	248	ZZP	Dead Tree Point' Sandspit			18	18																					
CAN	250	UAC	Eric' Poste Montagnais					14																				
CAN	251	YCD	Nanaimo				18				20															18		
CAN	254	5B	Summerside					17																				
CAN	257	LW	Kelowna				18				20															21		
CAN	263	QY	Sydney					17																				
CAN	263	ZQT	Superior' Thunder Bay																									18
CAN	266	VR	Vancouver				18				20															18		
CAN	266	YZX	Greenwood					17																				
CAN	266	ZHM	Hamilton (Binbrook)																									18
CAN	269	3C	Venture Drilling Platform					14																				
CAN	269	YK	Brilliant' Castlegar				18																					
CAN	272	XS	Prince George			18	18																					
CAN	272	YQA	Muskoka															16		16								18
CAN	276	YEL	Elliot Lake															16										
CAN	276	YHR	Chevery					17																				
CAN	280	QX	Gander					14																				
CAN	283	PT	Pelee Island														16	16		16		18						18
CAN	290	YYF	Penticton				18				18															18		
CAN	293	MB	Mill Bay' Victoria				18				20															18		
CAN	304	ZQM	Riverview (Moncton)					17																				
CAN	312	UNT	Naramata (Penticton)				18																					
CAN	325	YJQ	Bella Bella (Campbell Island)				18																					
CAN	326	DC	Princeton				18				21															18		
CAN	326	FC	Fredericton					17													16							
CAN	326	VV	Wiarton															17		16		18						18
CAN	326	XJ	Fort St. John			18																						
CAN	332	QT	Thunder Bay															17		16								18
CAN	332	WC	White Rock (Abbotsford)				18				21															18		
CAN	332	XT	Terrace			18																						
CAN	335	YLD	Chapleau															17										18
CAN	335	ZKF	Kitchener (Wellington)																			18						
CAN	338	5Y	Trenton					17																				
CAN	340	ZJT	Stephenville					17																				
CAN	341	GF	Aylesford (Greenwood)					17																				

CAN	344	XX	Abbotsford				18				21															18			
CAN	344	YGV	Havre St Pierre					17																					
CAN	350	D7	Kincardine																			18							
CAN	350	DF	Deer Lake					17																					
CAN	350	NY	Enderby			20	18				21															21			
CAN	353	QG	Saint Clair Beach (Windsor)															18		16		18							19
CAN	356	ON	Okanagan' Penticton				18																						
CAN	359	YAZ	Tofino				18				21															18			
CAN	359	YQZ	Quesnel			18	18																						
CAN	360	PN	Port-Menier / Ile Anticosti					17																					
CAN	362	SB	Sudbury																										19
CAN	363	1F	Manta' Bathurst					14																					
CAN	364	ZHZ	Split Crow' Halifax					14																					
CAN	366	ZMN	Lewisville (Moncton)					14																					
CAN	368	ZP	Sandspit			18	18																			18			
CAN	368	ZYZ	Toronto (The Queensway)																			18							
CAN	374	EX	Rutland (Kelowna)				18																						
CAN	375	7B	St Thomas																			18							
CAN	378	AP	Active Pass (Mayne Island)				18				21															18			
CAN	382	YPW	Powell River				18				21															21			
CAN	385	WL	Williams Lake			18	18																			21			
CAN	387	6E	Grand Manan					14																					
CAN	389	YWB	Kelowna				18																			21			
CAN	390	JT	Stephenville					14																					
CAN	391	TK	Telkwa (Smithers)			18																							
CAN	397	ZST	Alpine' Saint John					14																					
CAN	400	QQ	Comox			18	18				21															18			
CAN	404	YSL	St Leonard					14																					
CAN	404	ZR	Sarnia																			18							
CAN	414	YZK	Harper Ranch (Kamloops)				18																						
CAN	520	F9	Chatham (Miramichi)					14																					
CHN	204	UJ	Gaolan							03																			
CHN	227	BK	Ningbo							03																			
CHN	229	N	Fuzhou / Changle							03																			
CHN	244	BZ	Yunhe							03																			
CHN	380	LM	Ningbo/Lishe							04																			
CHN	405	D	Quanzhou - Jinjang							04																			
CUB	268	UBY	Bayamo (Granma)											17															
HWA	242	HN	Ewabe' Honolulu						20																				
HWA	353	LLD	Lanai						20																				
HWA	373	HHI	Wheeler' Wahiawa						20																				
TWN	202	RA	Longtan							03																			
TWN	210	TC	Taichung							03																			
TWN	250	AP	Anpu							03																			
TWN	275	PK	Matsu/Beigan							03																			
TWN	290	BM	Makung, Penghu Archipelago							03																			
TWN	310	SG	Xinsheng Park							03																			
TWN	315	NK	Nangan							03																			
TWN	340	WK	Hsinshie							03																			
TWN	345	BS	Kinmen							04																			
TWN	357	LU	Keelung							04																			
TWN	362	HL	Houlung							04																			
TWN	375	NN	Hsikang							04																			
TWN	380	YU	Hualien							04																			
USA	198	DIW	Dixon											16											15				
USA	201	IP	Mobile										18		20	18											17		
USA	203	AB	Reney' Aberdeen															16											
USA	203	TCY	Tracy																					18					
USA	206	IIB	Wapsie' Independence														16	16		16									17
USA	206	SOW	Show Low																								17		
USA	209	HGT	(Fort) Hunter Liggett' Jolon																					18					
USA	209	ITR	Kit Carson' Burlington									17							17										
USA	211	HDG	Steelhead' Gooding																				18						
USA	212	CFV	Coffeyville									17					16	18	16										17
USA	212	HP	Anger' Hammond																17										
USA	212	LIU	Littlefield									20																	
USA	212	UC	Obion' Union City														16	16			16								
USA	212	VP	Sedly' Valparaiso														16	18		16									17
USA	215	AT	Lican' Watertown															18											
USA	216	GRF	Graye AAF (Joint Base Lewis-Mcchord) Airport				18				20															18			
USA	218	AL	Alpos' Alton (St Louis MO)														16	18		16	17								17
USA	219	TO	Tophr' Toledo																	16		18							
USA	220	HLE	Hailey																				18						
USA	220	RBJ	Robles' Tucson										18		20												17		
USA	221	OR	Henry' Orlando											15															
USA	221	RP	Wickr' Rice Lake Airport, Carl's Field															18		16									17
USA	223	DAA	Davee' Fort Belvoir																						15				
USA	223	MW	Onida' Franklin															18		17									17
USA	227	FZ	Eaves' St. Louis														16	18		16									17
USA	227	GW	Aubon' De Kalb County, Auburn														16	18		16		17							17
USA	227	SQ	Pnthr' Connersville														17	18		17									17
USA	227	TNZ	Lawrence Co.' Walnut Ridge														16				16								
USA	230	AT	Gamie' Appleton															18		17									17
USA	230	BI	Jadan' Bismarck									18						18											
USA	230	BNZ	Abbeville																16										
USA	230	NRN	Norton									17					17	18	16										
USA	230	VQ	Cargl' Detroit																			18							
USA	233	AZN	Amazon' St. Joseph														16	18		16									17
USA	233	HEM	Huchn' Sparta																		18								
USA	233	OKS	Oshkosh									17						16											
USA	234	TX	Tecco' Texarkana																16										
USA	236	BW	Noora' Bowling Green														17	16			16								
USA	236	FOR	Forsyth															16											
USA	237	EZF	Shannon' Fredericksburg																						15				
USA	239	BBB	Benson															18											17
USA	239	EA	Maggs' Eau Claire															18											17
USA	239	HKF	Hook Field' Middletown														16	18		16									17
USA	240	BVS	Skagit / Bay View' Burlington / Mt Vernon				18				20															18			
USA	240	CJ	Calde' Springfield														16	18		16									17
USA	242	EL	Valtr' El Paso																16								17		
USA	245	ARM	Wharton																16										
USA	245	AVQ	Marana										18		20												17		
USA	245	FS	Rokky' Sioux Falls									17					16	18		17									17
USA	245	HU	Yinno' Terre Haute														16	18		16									
USA	245	PWF	Sportys' Batavia															18		16									17
USA	248	CG	Dutch' Cape Girardeau														16	16			15								
USA	248	IL	Hadin' Wilmington																						15				
USA	248	PQF	Mesquite																16										
USA	250	UGS	University' Athens / Albany															16											17
USA	251	AM	Pande' Amarillo									17							16								17		
USA	251	BR	Larew' Brainerd															16											
USA	251	JZY	Macomb														16	18		16									17
USA	251	SV	Cozey' Silver City																								17		
USA	253	DD	Cobbs' Columbus															18		16									17
USA	253	GB	Garno' Marshall														17	18											
USA	253	OC	Nados' Nacogdoches																16										
USA	254	BOZ	Whiteside' Sterling / Rock Falls														17	18		16									17
USA	254	HLB	Batesville															16		16									17
USA	254	LLW	Woodville' Elizabeth City																						15				
USA	254	MB	Manistee															16											17
USA	255	BS	Creed' Austin																16										
USA	255	SW	Blaki' Stillwater									17							16										
USA	257	DT	Pinck' Denton																16										
USA	257	FWC	Wayne County' Fairfield														16	19		16									17
USA	257	JYR	York									17					17	19											
USA	257	MB	Olste' Saginaw															19		16		17							17
USA	257	PEA	Pella														16	19		16									
USA	257	SAZ	Staples															16											
USA	257	SQT	Satellite' Melbourne											16															
USA	260	CL	Rowdy' College Station																16										
USA	260	JYG	St James															19											
USA	260	ST	Tario' Saint Joseph														16	19											
USA	263	BF	Creve' Scottsbluff									17																	
USA	263	CVM	Civic Memorial' Alton														16	19		16									18
USA	263	GR	Knobs' Grand Rapids															19		16									18
USA	263	LB	Freep' Angleton / Lake Jackson																16										
USA	263	LQL	Lakeland' Willoughby																			18							
USA	264	HN	Suybe' Shawnee																16										
USA	266	DU	Calin' Marshfield															19		17									18
USA	266	PYX	Perryton									17							16										
USA	267	HET	Henryetta																16										
USA	269	AHX	Athens																16										
USA	269	AR	Acadi' New Iberia																16										
USA	269	BEX	Bloomfield														16	19		16									18
USA	269	FN	Petli' Flint															16				18							18
USA	269	ISB	Sibley														16	19		16									
USA	272	BT	Batol' Battle Creek															16		19									18
USA	272	LD	Lubbi' Lubbock																16										
USA	272	LS	Mindi' La Crosse															19											
USA	272	OLY	Olney' Olney-Noble														17	19		16									18
USA	272	RU	Garys' San Marcos																16										
USA	273	FK	Airbe' Fort Campbell (Hopkinsville)														16	16			15								
USA	274	RG	Red Wing														17	19											
USA	275	DE	Elwin' Decatur														17	19		16									18

USA	275	GEY	Greybull									19																		
USA	275	HIN	Whitney' Chadron									17																		
USA	275	RF	Gilmy' Rockford														18	19		16										18
USA	275	SWW	Sweetwater																16											
USA	277	OT	Wondd' Worthington															16												
USA	278	ADG	Adrian														17	16		16		18								18
USA	278	AUR	Sulfy' Sulphur																16											
USA	278	HOC	Hillsboro															19		16										18
USA	278	IL	Iresh' Killeen																16											
USA	280	GYZ	Camp Guernsey' Guernsey									17																		
USA	281	CX	Alibi' Conroe																16											
USA	281	DMO	Sedalia														17	16		16										18
USA	282	ROS	Rush City															19												
USA	284	BT	Rundi' Baton Rouge																16											
USA	284	FHR	Friday Harbor				18				20																18			
USA	293	FBY	Fairbury									18					17	16		16										18
USA	293	TOR	Torrington									17																		
USA	293	UI	Quincy														17	16		16										18
USA	299	HW	Cubla' Wilmington														16	17		16										18
USA	305	OI	Tommi' South Sioux City														18	17		16										
USA	305	RO	Topan' Roswell																16											
USA	308	UTS	Huntsville																16											
USA	311	GK	Jembo' Fort Smith																16											
USA	314	CVY	Cavalry' Fort Riley									20					18	17												
USA	315	AT	Bruny' Dayton														16	17		16										
USA	320	TY	Tyler / Indoo																16											
USA	321	FT	Skipi' Bennett (Denver)									17																		
USA	323	EBS	Webster City														18	17		16										18
USA	323	GR	Starn' Fort Hood (Kileen)																16											
USA	323	HHW	Hugo																17											
USA	326	BVP	Houston																16											
USA	326	FO	Riply' Topeka									18					18	17												
USA	326	SIV	Sullivan														18	17		16										18
USA	326	SU	Snoop' Saint Louis														17			17										
USA	327	JMR	Mora															17												
USA	328	LAC	Lacomas' Fort Lewis				18				21																18			
USA	329	AAA	Abraham' Lincoln														17	17		16										18
USA	329	HMA	Hondo																16											
USA	329	PMV	Plattsmouth									17					17	17		16										18
USA	329	RVN	Rogersville																		17									
USA	332	CZX	Crosbyton																16											
USA	332	DC	Oxonn' Oxon Hill (Fort Foote Park)																						15					
USA	332	IC	Piche' Wichita									19							16											
USA	332	RPF	Carthage																16											
USA	332	SG	Depre' Green Bay															17		16										18
USA	332	ULH	Burwi' Tullahoma																		15									
USA	334	LH	Egrow' Bloomington														17	17		16										18
USA	334	RM	Noxks' Rockland					14																						
USA	335	BK	CHRLZ' Brookings														16	17												
USA	335	BV	Almnd' Batesville														16													
USA	335	CC	Kanan' Concord																					18						
USA	335	IHS	Ironhorse' Fort Carson									17																		
USA	335	LUK	Cincinnati															17		16										
USA	338	DE	Madds' Detroit																			18								18
USA	338	HR	Sebas' Harlingen																16											
USA	338	JZ	Newbn' Lawrence															17												
USA	338	K	Ediz Hook' Port Angeles				18				21																18			
USA	338	LM	Oblio' St Louis														17	17		16										
USA	338	RYN	Ryan' Tucson										18		20	21													17	
USA	338	TU	Oillr' Tulsa																16											
USA	338	UMP	Metropolitan' Indianapolis														18	17		16		18								18
USA	341	CCJ	Clark Co' Springfield																	16		18								
USA	341	CQN	Daisy' Chattanooga																		17									
USA	341	DB	'Zilom' Dubuque														17	17		16										18
USA	341	DNI	Denison																16											
USA	341	EI	Garfy' Enid																16											
USA	341	FO	Barro' Fort Dodge														17	17		16										19
USA	341	HRX	Hereford																16											
USA	341	OIN	Oberlin									17																		
USA	341	OW	Higuy' Owensboro														17													
USA	341	SB	Misha' South Bend														19	17		16										18
USA	344	BKU	Timber' Baker									17																		
USA	344	CGQ	Powell' Corsicana																16											
USA	344	FCH	Chandler' Fressno													18								18						
USA	344	MK	Kenzy' Kansas City														17			17										
USA	344	SKB	Scotland' Wichita Falls																16											
USA	344	TKH	Tallulah' Vicksburg																16											
USA	344	UNU	Juneau														19	17		16										19
USA	347	AFK	Nebraska City														17	17		16										
USA	347	ATA	Atlanta																16											
USA	347	GC	Pieve' Garden City									17																		
USA	347	HLR	Hood' Fort Hood (Killeen)																16											
USA	347	YK	Cagur' Yankton															17												
USA	348	MC	Surff' Mason City															16		16										19
USA	348	MNC	Mason Co' Shelton				18				21																18			
USA	349	APG	Aberdeen' Aberdeen Proving Grounds																						15					
USA	349	GW	Teock' Greenwood																16											
USA	350	OKT	Yoakum																16											
USA	350	CP	Acore' Cahokia / St Louis														17	17		16										
USA	350	DNS	Denison														17	17		16										19
USA	350	LF	Flufy' Lufkin																16											
USA	350	RG	Gally' Oklahoma City									17					17		16											
USA	351	MSQ	Culpeper																						17					
USA	351	PH	Bayye' Mosinee															17												19
USA	352	VM	Meana', Mena Intermountain Municipal																16											
USA	353	AB	Tomhi' Abilene																16											
USA	353	LI	Lasky' Little Rock																16											
USA	353	RNT	Renton				18				21																18			
USA	355	CGE	Cambridge																						15					
USA	356	AQP	Appleton															16												
USA	356	FWX	Hazer' New Roads																16											
USA	356	GMZ	Grindstone Mountain' Bowie																16											
USA	356	IUL	La Porte														18	18		16										19
USA	356	ODX	Ord									17					18	18												
USA	356	PI	Tungg' Peoria														18	18		16										19
USA	356	PTT	Pratt									17							16											
USA	356	RCX	Rusk County' Ladysmith															18												19
USA	356	SJ	Woole' San Angelo																16											
USA	356	SUH	Sprucehead' Rockland					14																						
USA	359	BO	Ustik' Boise																				18							
USA	359	FXY	Forest City															18												19
USA	359	GGF	Grant									17																		
USA	359	HHH	Devine																16											
USA	359	LXL	Little Falls															18												
USA	359	SDR	Snyder																16											
USA	359	SDY	Sidney									17																		
USA	362	AK	Akron																			18								
USA	362	BF	Nolla' Seattle				18				21																18			
USA	362	CD	Dawes' Chadron									17																		
USA	362	EE	Merle' Ames														18	18												19
USA	362	HPC	Hope																16											
USA	362	MT	Manitowac															18		16										19
USA	362	OWP	William Pogue' Sand Springs																16											
USA	365	AA	Kenie' Fargo															16												
USA	365	FT	Mufin' Fort Worth																16											
USA	365	JN	Balll' Muncie															18		16										19
USA	365	SYZ	Shelbyville														18	18		16										
USA	365	TV	Gwenn' Traverse City															17												19
USA	366	EOK	Keokuk														18	18		16										19
USA	368	AN	Alamo' San Antonio																16											
USA	368	EU	Murey' Murray																		16									
USA	368	IMR	Marshfield					15																						
USA	368	SOY	Sioux Center														18	18		16										
USA	368	VIQ	Neillsville															18												19
USA	371	AZ	Austn' Vicksburg															18		16										19
USA	371	FQW	Walter Hill' Murfreesboro																		16									
USA	371	RYV	Rock River' Watertown														19	18		16										19
USA	371	SOA	Sonora																16											
USA	371	YK	Donny' Yakima				18																							
USA	372	CQD	Cascade' Erie																			18								
USA	372	MF	Manns' Mansfield																			18								
USA	374	EE	Tamie' Alexandria															18												
USA	374	LV	Reiga' Livermore																					18						
USA	375	LQ	Licol' Springfield														18	18		16										19
USA	375	PJS	Henry' Newport News																						15					
USA	375	SPH	Springhill																16											
USA	376	LC	Pickl' Columbus																											19
USA	377	EHA	Elkhart									17							16											
USA	379	LRR	Allen Parish' Oakdale																16											
USA	379	OW	Tonna' Owatonna														16	18												19
USA	379	UG	Wauke' Waukegan (Chicago)															18		16										19
USA	380	GC	Deryk' Gillette									17																		
USA	380	OEL	Oakley									17																		
USA	381.5	SJX	St James' Beaver Island															19		16										

ITU	QRG	ID	Name	AUS rw	BRA zm	CAN bt	CAN sm	CAN vm	HWA mx	TWN hf	USA so	USA ac	USA bc	USA cg	USA dl	USA dn	USA dp	USA dt	USA du	USA fy	USA g4	USA jb	USA mu	USA pa	USA rs	USA rt	USA sr	USA zi
USA	382	AW	Waton' Arlington				18				21															18		
USA	382	IRS	Sturgis														19	18		16		18						19
USA	382	MW	Jonny' Marion														18											
USA	382	PCZ	Waupaca																	18								19
USA	382	SP	Huskk' Springfield														18	18		16								19
USA	383	CNP	Chappell									17																
USA	383	LB	'Panck' Liberal									17																
USA	383	PI	Tyhee' Pocatello																				19					
USA	385	DXB	De Ridder																16									
USA	385	HO	Hossy' Hot Springs																16									
USA	385	JD	Gooey' Belleville														18	18		16								
USA	385	LN	Potts' Lincoln															18										
USA	385	MR	Munso' Monterey																					19				
USA	385	UWL	New Castle																	16								19
USA	386	SYF	St. Francis									17																
USA	387	CAV	Clarion														18	18										
USA	388	CFJ	Crawfordsville														19	18		16								19
USA	388	GLY	Golden Valley' Clinton														18	18										
USA	388	MD	Cabbi' Carbondale / Murphysboro														18											
USA	388	OFZ	Trail' Fort Sill																16									
USA	389	CSB	Harry Strunk' Cambridge									17						18										
USA	389	EN	Codee' Kenosha														18	18		16								19
USA	390	BR	Burns' Burlington														18	18		16								
USA	391	BHN	Buckhorn' Fort Leonard Wood														18											
USA	391	EFW	Jefferson														17	18		16								
USA	391	GXD	Nacogdoches																16									
USA	391	MFI	Marshfield															18										19
USA	391	PLX	Palestine' Robinson														18	18		16								19
USA	392	AGZ	Wagner															18										
USA	392	BAJ	Batten' Sterling									17																
USA	392	FMZ	Beklof' Fairmont									17					17	16										
USA	393	BZ	Fossi' Clinton																16									
USA	394	AI	Video' Anderson															18		17								19
USA	394	SP	Snore' Spencer															18										19
USA	395	OS	Pober' Oshkosh															18		16								19
USA	395	ULS	Ulysses									17							16									
USA	396	CRS	Corsicana																16									
USA	397	CIR	Cairo														17											
USA	397	JE	Algoa' Jefferson City														18											
USA	397	SB	Petis' San Bernardino													18												
USA	400	AHQ	Wahoo									17					17	16										19
USA	400	AI	Addmo' Ardmore																16									
USA	400	FO	Squir' Westhampton Beach																						15			
USA	400	NHK	Patuxent' Patuxent River																						15			
USA	400	PPI	Hopey' St Paul															16										
USA	400	ROB	Robinson' Waco																16									
USA	400	SLO	Salem														18	16		16								19
USA	400	TRX	Trenton														18	16										
USA	404	MOG	Montague																					19				
USA	404	ST	Zumay' St Louis														19											
USA	407	AQ	Kooky' Appleton															16		16								19
USA	407	CHD	Chandler												20												17	
USA	407	CM	Veals' Champaign / Urbana														18	16		16								19
USA	407	CO	Petey' Colorado Springs									17																
USA	407	HRU	Herington									18																
USA	407	OOC	Campi' Natchitoches																16									
USA	407	OX	Landy' Ocean City																						15			
USA	408	JDM	Wheatfield' Colby									17																
USA	408	MW	Pelly' Moses Lake				18				21															21		
USA	410	BA	Clifs' Columbus															16		16								19
USA	410	DAO	Dragoo' Fort Huachuca (Sierra Vista)										18														17	
USA	410	EGQ	Emmetsburg															16										
USA	410	GG	Veels' Longview																16									
USA	411	SDA	Shenandoah														18	16		16								
USA	412	CMY	Mc Coy' Sparta															16		16								19
USA	414	GL	Shugr' Goodland									17																
USA	414	GRN	Gordon									17																
USA	414	MSD	Mansfield																16									
USA	414	SU	Salix' Sioux City														17	16										
USA	416	LB	Panbe' North Platte									18																
USA	417	HHG	Huntington														18	16		16		18						19
USA	417	IY	Chukk' Charles City														18	16		16								19
USA	418	CW	Mossy' Lake Charles																16									
USA	419	GB	Babsy' Great Bend									18																
USA	419	RYS	Grosse Ile' Detroit / Grosse Ile																			18						
USA	420	FQ	Montz' Fairmont														19	16		16								19
USA	421	VLY	Fluet' Mc Kinney																16									
USA	422	EA	Anoke' Kearney									19																
USA	423	PCW	Port Clinton																			18						
USA	426	EN	Rikky' Council Bluffs															16										
USA	428	POH	Pocahontas														19	16		16								
USA	512	HMY	Muldrow' Lexington																16									
USA	515	CL	Elwha' Port Angeles				18				21															21		
USA	517	FN	Hillz' Clinton														17	16		16								19
XOE	244	3W	Goldboro Offshore Platform					17																				
XON	252	3S	Thebaud Platform, Offshore Nova Scotia					14																				
XUA	198	WN	UNID							03																		
XUA	240	FB	UNID							03																		
XUA	255	JC	UNID							03																		
XUA	308	K	UNID							03																		
XUA	378	XD	UNID							04																		
XUA	409	W	UNID							04																		
XUN	392	934	UNID															16										

COUNTRIES HEARD:

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

ITU	ITU-Name	AUS rw	BRA zm	CAN bt	CAN sm	CAN vm	HWA mx	TWN hf	USA so	USA ac	USA bc	USA cg	USA dl	USA dn	USA dp	USA dt	USA du	USA fy	USA g4	USA jb	USA mu	USA pa	USA rs	USA rt	USA sr	USA zi
ALS	Alaska			01																						
AUS	Australia, NW	04																								
AUS	Australia, SA	09																								
AUS	Australia, VI	03																								
BRA	Brazil		18																							
CAN	Canada, BC			14	32				17															22		
CAN	Canada, NB					10													01				01			
CAN	Canada, NL					05																				
CAN	Canada, NS					08																	01			
CAN	Canada, ON														01	12		06		08						11
CAN	Canada, PE					01																				
CAN	Canada, QC					11																				
CHN	China							06																		
CUB	Cuba											01														
HWA	Hawaii						03																			
TWN	Taiwan							13																		
USA	USA, AR														02		06		01							
USA	USA, AZ										05		05	02											07	
USA	USA, CA													02								07				
USA	USA, CO									05							01									
USA	USA, DE																						01			
USA	USA, FL											02														
USA	USA, IA														19	24		17								13
USA	USA, ID																				04					
USA	USA, IL														24	22		22	01							19
USA	USA, IN														10	14		15		03						14
USA	USA, KS									17					04	05	06									01
USA	USA, KY														03	02			03							
USA	USA, LA																13									
USA	USA, MA					01																				
USA	USA, MD																						06			
USA	USA, ME					02																				
USA	USA, MI														02	10		07		07						10
USA	USA, MN														04	16		01								03
USA	USA, MO														13	08		06	01							03
USA	USA, MS																01									
USA	USA, MT									02						01										
USA	USA, NC											01											02			
USA	USA, ND									01						01										
USA	USA, NE									16					08	11		04								03
USA	USA, NM																01								01	
USA	USA, NY																						01			
USA	USA, OH														03	09		10		06						08
USA	USA, OK									02					01		12									
USA	USA, PA																			01						
USA	USA, SD									01					02	06		01								01
USA	USA, TN														01	01			06							
USA	USA, TX									03							45								02	
USA	USA, VA																						03			
USA	USA, WA				12				11															11		
USA	USA, WI														03	17		12								17
USA	USA, WY									04																

ITU	ITU-Name	AUS rw	BRA zm	CAN bt	CAN sm	CAN vm	HWA mx	TWN hf	USA so	USA ac	USA bc	USA cg	USA dl	USA dn	USA dp	USA dt	USA du	USA fy	USA g4	USA jb	USA mu	USA pa	USA rs	USA rt	USA sr	USA zi
XOE	Int Waters: Europe					01																				
XON	Int Waters: N.America					01																				
XUA	UNID (Asia?)							06																		
XUN	UNID (N.America?)															01										

LISTENING TIMES:

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

UTC (hh)	AUS rw	BRA zm	CAN bt	CAN sm	CAN vm	HWA mx	TWN hf	USA so	USA ac	USA bc	USA cg	USA dl	USA dn	USA dp	USA dt	USA du	USA fy	USA g4	USA jb	USA mu	USA pa	USA rs	USA rt	USA sr	USA zi
00:00 - 00:59	4																								
03:00 - 03:59	12						16																		
04:00 - 04:59							9																		
14:00 - 14:59					16																				
15:00 - 15:59		18			2						1							3				13			
16:00 - 16:59											2			28	48	82	91	6							
17:00 - 17:59					22				40		1			32	30	3	8	3	2			1		10	27
18:00 - 18:59			14	44				1	6	5			3	32	63		1	1	23	3	5	1	24		32
19:00 - 19:59									3					8	19		1			1	2				44
20:00 - 20:59			1			3		10	2			5													
21:00 - 21:59								17					1										9		
UTC (hh)	AUS rw	BRA zm	CAN bt	CAN sm	CAN vm	HWA mx	TWN hf	USA so	USA ac	USA bc	USA cg	USA dl	USA dn	USA dp	USA dt	USA du	USA fy	USA g4	USA jb	USA mu	USA pa	USA rs	USA rt	USA sr	USA zi
Totals	16	18	15	44	40	3	25	28	51	5	4	5	4	100	160	85	101	13	25	4	7	15	33	10	103

NDB COUNTS, BY FREQUENCY:

The number of NDBs logged by each reporter on each frequency
and the number logged by all on each frequency, ignoring offsets:

QRG	AUS rw	BRA zm	CAN bt	CAN sm	CAN vm	HWA mx	TWN hf	USA so	USA ac	USA bc	USA cg	USA dl	USA dn	USA dp	USA dt	USA du	USA fy	USA g4	USA jb	USA mu	USA pa	USA rs	USA rt	USA sr	USA zi
198.0							1				1											1			
200.0		1	1	1				1															1		
201.0					1					1		1	1		1									1	
202.0							1																		
203.0	1		1	1											1						1		1		
204.0							1																		
206.0					1									1	1		1					1		1	1
207.0					1										1										
209.0									1						1	1					1				
210.0		1					1																		
211.0																				1					
212.0					1				2					3	3	2	1	1				1			2
214.0				1				1															1		
215.0															1										
216.0				1	1			1															1		
218.0			1											1	1		1	1							1
219.0					1												1		1						
220.0					1					1		1								1				1	
221.0											1				1		1								1
223.0				1				1							1		1					1	1		1
227.0				1			1							4	3		3	1	1						3
229.0					1		1																		
230.0			1		1				2					1	3	2	1		1						1
232.0					1																				
233.0									1					1	2		1	1							2
234.0																1									
235.0		1																							
236.0				1				1						1	2			1					1		
237.0																						1			
239.0														1	3		1								3
240.0				1			1	1						1	1		1						1		1
242.0	1			1		1										1							1	1	
243.0					1																				
244.0					1		1																		
245.0									1	1		1		2	4	1	4							1	3
248.0	1		1	1	1									1	2	1		1				1			
250.0					1		1								1										1
251.0				1				1	1					1	2	1	1						1	2	1
252.0					1																				
253.0														1	2	1	1								1
254.0					1									1	3		2					1			3
255.0							1		1							2									
257.0				1				1	1		1			3	5	1	3		1				1		2
260.0														1	2	1									
263.0					1				1					1	2	1	2		1						3
264.0																1									
266.0	1		1	1	1			1	1						1	1	1						1		2
267.0																1									
268.0											1														
269.0				1	1									2	3	2	2		1						2
272.0	1		1	1										1	4	2	3								3
273.0														1	1			1							
274.0														1	1										
275.0		1					1		2					2	2	1	2								2
276.0					1										1										
277.0															1										
278.0														1	2	2	2		1						2
280.0		1			1				1																
281.0														1	1	1	1								1
282.0															1										
283.0														1	1		1		1						1
284.0				1				1								1							1		
287.0	1																								
290.0				1			1	1															1		
293.0	1			1				1	2					2	2		2						1		2
299.0														1	1		1								1
304.0					1																				
305.0	1													1	1	1	1								
308.0							1									1									
310.0		1					1																		
311.0	1															1									
312.0				1																					
314.0									1					1	1										
315.0							1							1	1		1								
320.0																1									
321.0									1																
323.0														1	1	2	1								1
325.0		1		1																					
326.0			1	1	1			1	1					3	3	1	3	1	1				1		2
327.0															1										
328.0				1				1															1		
329.0									1					2	2	1	2	1							2
330.0		2																							
332.0	1		1	1				1	1						2	3	2	1				1	1		2
334.0					1									1	1		1								1
335.0									1					2	3		1		1		1				1
338.0				1	1			1		1		1	1	2	3	2	2		2				1	1	2
340.0					1		1																		
341.0	1				1				1					4	3	3	4	1	1						3
344.0				1	1			1	1				1	2	1	3	2				1		1		1
345.0							1																		
347.0									1					1	2	2	1								
348.0				1				1							1		1						1		1
349.0																1						1			
350.0			1	1	1			1	1					3	2	3	2		1				1		1
351.0															1							1			1
352.0																1									
353.0				1		1		1							1	2	1		1				1		1
355.0																						1			
356.0				1	1				2					3	5	4	2								3
357.0							1																		
359.0			1	2				1	2						2	2				1			1		1
360.0		1			1																				
362.0				1			1	1	1					1	2	2	1		1				1		3
363.0					1																				
364.0					1																				
365.0														1	4	1	2								2
366.0					1									1	1		1								1
368.0			1	1	1									1	2	1	1	1	1				1		1
370.0		1																							
371.0	1			1										1	2	1	2	1							2
372.0																			2						
373.0						1																			
374.0				1											1						1				
375.0		1					1							1	1	1	1		1			1			1
376.0																									1
377.0									1							1									
378.0				1			1	1															1		

QRG	AUS rw	BRA zm	CAN bt	CAN sm	CAN vm	HWA mx	TWN hf	USA so	USA ac	USA bc	USA cg	USA dl	USA dn	USA dp	USA dt	USA du	USA fy	USA g4	USA jb	USA mu	USA pa	USA rs	USA rt	USA sr	USA zi
379.0														1	2	1	1								2
380.0	1	1					2		2																
381.5															1		1								
382.0				2				2						3	2		3		1				2		3
383.0									2											1					
385.0			1	1										1	2	2	2				1		1		1
386.0									1																
387.0					1									1	1										
388.0														3	2	1	1								1
389.0	1			1					1					1	2		1						1		1
390.0					1									1	1		1								
391.0			1											3	3	1	2								2
392.0									2					1	3										
393.0																1									
394.0															2		1								2
395.0									1						1	1	1								1
396.0																1									
397.0					1								1	2											
400.0			1	1				1	1					3	4	2	1					2	1		2
404.0					1									1					1		1				
405.0							1																		
407.0	1								2			1		1	2	1	2					1		1	2
408.0				1				1	1														1		
409.0							1																		
410.0		1								1					2	1	1							1	1
411.0														1	1		1								
412.0															1		1								1
414.0				1					2					1	1	1									
415.0		1																							
416.0	1								1																
417.0														2	2		2		1						2
418.0																1									
419.0									1										1						
420.0														1	1		1								1
421.0																1									
422.0									1																
423.0																			1						
426.0															1										
428.0														1	1		1								
430.0		1																							
512.0																1									
515.0		1		1				1															1		
517.0														1	1		1								1
520.0					1																				
1645.0		1																							

MOBs

Due to the very special time-frame for this event (2 hours around local noon) a MOB-table would be very long and therefore meaningless.
For this reason it has been omitted for this CLE.

FREQUENCIES REVISITED - Progress Statistics

(Please see the explanation below)

THEN:	CLE107	190 - 1740 kHz	25 - 28 Jul 2008
NOW:	CLE220	190 - 1740 kHz	23 - 26 Jun 2017

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 rw	328	433	5	7	15	16	707	902
HWA mx	162	56	1	0	6	3	362	111
USA bc	224	74	4	0	18	5	433	168
USA dn	155	381	2	2	14	4	484	644
USA dp	324	388	5	39	15	100	1580	793
USA dt	413	464	87	74	212	160	1507	1363
USA du	334	382	43	33	129	85	849	1047
USA mu	228	309	2	1	9	4	443	444
USA sr	466	249	42	2	90	10	1530	937
Averages:	**293**	**304**	**21**	**18**	**56**	**43**	**877**	**712**
% Increase:		**4**		**-17**		**-24**		**-19**

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
BRA zm		198		4		18		468
CAN bt		352		5		15		792
CAN sm		247		11		44		786
CAN vm		383		15		40		828
TWN hf		238		5		25		882
USA so		191		5		28		424
USA ac		500		26		51		882
USA cg		471		2		4		1029
USA dl		122		1		5		179
USA fy		373		38		101		795
USA g4		378		5		13		2079
USA jb		168		4		25		363
USA pa		182		1		7		517
USA rs		321		5		15		1027
USA rt		224		7		33		900
USA zi		405		42		103		885
Averages:		**297**		**11**		**33**		**802**
% 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.

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 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.

je 20170628