

NDB LIST CLE No. 196

1-Way Flight from your Location

24 - 27 July 2015, midday-midday local time

COMBINED RESULTS EUROPE

Listeners were invited to "make an imaginary 'fun flight' from your home, navigating by travelling from NDB to NDB to finally reach a distant one. Each of the chosen NDBs to be logged in turn (from home!) in the correct time sequence. That will get harder as you travel further away."

Pilots:

CZE	my	Milos Holy, Lhota pod Radcem
ENG	bk	Brian Keyte, Bookham, Surrey
ENG	me	Mike Thayne, Whitley Bay
ENG	mt	Mike Trodd, Yapton, near Arundel, W Sussex
HOL	rb	Roelof Bakker, Middelburg, Zeeland
ITA	wb	William G Buchanan, Alessandria
SCT	ds	David Atkins, Tighnabruaich, Argyll
SUI	ps	Peter Schleuss, Winterthur

For full details, please see the individual reporters' flight 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)

Flight Statistics:

To encourage realistic flights, pilots were asked to try to get a high value for all four of these:	CZE my	ENG bk	ENG me	ENG mt	HOL rb	ITA wb	SCT ds	SUI ps	AVERAGE
Start-Finish direct (km):	1,083	1,275	2,166	2,354	4,089	1,353	1,904	1,575	1,975
Total Flight distance (km):	1,861	1,991	2,305	2,920	9,505	1,403	3,104	1,659	3,094
Directness (%):	58	64	94	81	43	96	61	95	74
No. of Legs (NDBs):	23	18	18	11	46	7	30	5	20
Shortest leg (km):	10	68	55	39	3	21	37	282	64
Longest leg (km):	167	243	196	1,030	1,225	412	195	378	481
Legginess (%):	6	28	28	4	0	5	19	75	21

'Directness' is the start-to-finish distance direct, divided by the total flight distance as a %.
A low figure means a 'zig-zaggy' flight.

'Legginess' is the shortest leg distance divided by the longest leg distance as a %.
It measures how well the pilots were able to avoid any very short legs and any very long ones.

The yellow fill colours show higher values, the blue ones show lower values (my rather arbitrary choices!).
Some listeners had major benefits or disadvantages because of their location relative to suitable NDBs.

Individual Flights Full Details:

(To find a particular flight, select column F and 'find' the pilot's name)

CZE my Milos Holy, Lhota pod Radcem:

dd	UTC	kHz	Ident	Location	Cou.	Lat.	Long.		km LEG	direct km from start	Leg No.
			HOME:	Lhota pod Radcem	CZE	N4950	E01343		0	0	0
24	1204	386	RAK	Rakovnik	CZE	N5006	E01342		29	29	1
24	1209	365	L	Karlovy Vary	CZE	N5012	E01257		55	68	2
24	1212	405	GRW	Grafenwohr	DEU	N4942	E01157		90	127	3
24	1215	286	HFX	Hohenfels	DEU	N4913	E01152		55	150	4
24	1218	345	IGL	Ingolstadt	DEU	N4844	E01139		56	193	5
24	1220	338	MNW	Munchen	DEU	N4823	E01155		43	208	6
24	1225	303	RTT	Innsbruck	AUT	N4726	E01156		106	298	7
24	1901	420	INN	Innsbruck	AUT	N4714	E01124		47	336	8
24	1904	362	BZO	Bolzano (BZ)	ITA	N4628	E01119		85	415	9
25	2011	390	AVI	Aviano (PN)	ITA	N4556	E01226		105	444	10
25	2015	417	VIC	Vicenza (VI)	ITA	N4538	E01141		68	491	11
25	2024	408	CHI	Chioggia (VE)	ITA	N4504	E01217		79	541	12
25	2324	413	BOA	Bologna (BO)	ITA	N4434	E01112		101	616	13
26	0005	423	FOR	Forli (FC)	ITA	N4415	E01156		68	636	14
26	0009	357.5	FAL	Falconara (AN)	ITA	N4338	E01322		134	690	15
26	0018	374.5	ANC	Ancona (AN)	ITA	N4335	E01328		10	695	16
26	0025	398	PRU	Perugia (PG)	ITA	N4306	E01231		93	755	17
26	2245	301.5	CMP	Campagnano (RM)	ITA	N4208	E01223		108	863	18
26	2301	354	FE	Roma Fiumicino (RM)	ITA	N4150	E01221		34	896	19
27	0005	343	GRA	Grazzanise (CE)	ITA	N4104	E01405		167	975	20
27	0015	340	FOG	Foggia (FG)	ITA	N4126	E01532		129	945	21
27	0019	401	BPL	Bari Palese (BA)	ITA	N4107	E01640		101	996	22
27	0049	331	GRT	Grottaglie (TA)	ITA	N4027	E01725		98	1,083	23
Total:									1,861		

To encourage realistic flights, pilots were asked to try to get a high value for all four of these:	CZE my
Start-Finish direct (km):	1,083
Total Flight distance (km):	1,861
Directness (%):	58
No. of Legs (NDBs):	23
Shortest leg (km):	10
Longest leg (km):	167
Legginess (%):	6

ENG bk Brian Keyte, Bookham, Surrey:

dd	UTC	kHz	Ident	Location	Cou.	Lat.	Long.	km LEG	direct km from start	Leg No.
			HOME:	Bookham, Surrey	ENG	N5117	W00023	0	0	0
24	1101	340	LSH	Lashenden	ENG	N5109	E00038	72	72	1
24	1102	387	ING	St. Inglevert	FRA	N5053	E00145	84	156	2
24	1103	327	MVC	Merville Calonne	FRA	N5034	E00235	69	222	3
24	1104	321	ABY	Albert Bray	FRA	N4959	E00249	68	269	4
24	1104	391	BV	Beauvais	FRA	N4930	E00202	77	262	5
24	1134	334	POY	Paris Orly	FRA	N4844	E00223	89	346	6
24	1139	385	OAN	Orleans Bricy	FRA	N4800	E00146	93	396	7
24	1140	341	AMB	Amboise	FRA	N4725	E00103	84	443	8
24	1141	363	PI	Poitiers	FRA	N4642	E00025	93	513	9
25	0311	404	AGO	Angouleme	FRA	N4542	E00026	111	624	10
25	0314	427	RY	Royan	FRA	N4537	W00052	101	631	11
25	0327	358	BRS	Biscarrosse	FRA	N4422	W00108	140	771	12
25	0329	432	PRD	Peyrehorade	FRA	N4331	W00106	95	866	13
25	0340	399	B	Bilbao	ESP	N4322	W00302	158	903	14
25	0344	325	AST	Asturias	ESP	N4334	W00602	243	958	15
25	0347	401	COA	La Coruna	ESP	N4322	W00820	187	1,064	16
25	0349	433	VON	Vigo	ESP	N4211	W00838	134	1,189	17
25	0351	327	POR	Porto	POR	N4121	W00842	93	1,275	18
Total:								1,991		

To encourage realistic flights, pilots were asked to try to get a high value for all four of these:	ENG bk
Start-Finish direct (km):	1,275
Total Flight distance (km):	1,991
Directness (%):	64
No. of Legs (NDBs):	18
Shortest leg (km):	68
Longest leg (km):	243
Legginess (%):	28

ENG me Mike Thayne, Whitley Bay:

dd	UTC	kHz	Ident	Location	Cou.	Lat.	Long.	km LEG	direct km from start	Leg No.
			HOME:	Whitley Bay	ENG	N5503	W00128	0	0	0
24	1209	347.5	TD	Teesside	ENG	N5434	W00120	55	55	1
24	1209	338	FNY	Robin Hood	ENG	N5328	W00100	124	179	2
24	1210	423	CWL	Cranwell	ENG	N5302	W00029	60	233	3
24	1211	332.5	CAM	Cambridge	ENG	N5213	E00011	101	333	4
24	1211	362.5	SND	Southend-on-Sea	ENG	N5135	E00042	79	412	5
24	1212	418	MK	Calais	FRA	N5100	E00203	114	509	6
24	1224	323	ONC	Charleoi	BEL	N5029	E00433	185	649	7

To encourage realistic flights, pilots were asked to try to get a high value for all four of these:	ENG me
Start-Finish direct (km):	2,166
Total Flight distance (km):	2,305
Directness (%):	94
No. of Legs (NDBs):	18
Shortest leg (km):	55
Longest leg (km):	196

24	1226	307	DIK	Diekirch	LUX	N4952	E00608	132	772	8
26	2329	431	KBA	Karlsruhe	DEU	N4848	E00806	185	954	9
26	2331	407	LUP	Laupheim	DEU	N4813	E00955	148	1,091	10
26	2340	420	INN	Innsbruck	AUT	N4714	E01124	156	1,246	11
26	2350	362	BZO	Bolzano	ITA	N4628	E01119	85	1,308	12
26	2351	390	AVI	Aviano	ITA	N4556	E01226	105	1,408	13
26	2352	351.5	PLA	Pula	HRV	N4453	E01346	156	1,564	14
27	0036	385	BO	Zadar	HRV	N4410	E01516	143	1,701	15
27	0054	418	DVN	Split	HRV	N4327	E01609	106	1,807	16
27	0147	318	KLP	Dubrovnik	HRV	N4240	E01802	175	1,971	17
27	0224	290	TR	Tirana	ALB	N4125	E01943	196	2,166	18
Total:								2,305		

Legginess (%):	28
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ENG mt Mike Trodd, Yapton, near Arundel, W Sussex:

dd	UTC	kHz	Ident	Location	Cou.	Lat.	Long.	km LEG	direct km from start	Leg No.
			HOME:	Yapton W Sussex	ENG	N5049	W00036	0	0	0
24	1826	329	JW	Jersey	JSY	N4912	W00213	214	214	1
24	1830	353	SB	St Brieuc	FRA	N4834	W00247	82	296	2
24	1832	345	LN	Lannion	FRA	N4843	W00319	42	304	3
24	1834	395	GSG	Gourin	FRA	N4810	W00336	64	365	4
24	1836	359	LOR	Lorient	FRA	N4746	W00326	47	396	5
25	2300	380	RQ	Quimper	FRA	N4758	W00400	48	401	6
25	2300	410	C	La Coruna	ESP	N4319	W00822	618	1,020	7
25	2302	390	SO	Santiago de Compostela	ESP	N4258	W00826	39	1,056	8
25	2314	327	POR	Porto	POR	N4121	W00842	182	1,223	9
25	2311	433	JER	Jerez	ESP	N3650	W00601	554	1,614	10
25	2319	338	PST	Porto Santo	MDR	N3304	W01621	1,030	2,354	11
Total:								2,920		

To encourage realistic flights, pilots were asked to try to get a high value for all four of these:		ENG mt
Start-Finish direct (km):	2,354	
Total Flight distance (km):	2,920	
Directness (%):	81	
No. of Legs (NDBs):	11	
Shortest leg (km):	39	
Longest leg (km):	1,030	
Legginess (%):	4	

HOL rb Roelof Bakker, Middelburg, Zeeland:

dd	UTC	kHz	Ident	Location	Cou.	Lat.	Long.	km LEG	direct km from start	Leg No.
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To encourage realistic flights, pilots were asked to try to get a high value for all four of these:		HOL rb
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			HOME:	Middleburg, Zealand	HOL	N5130	E00336
26	0939	386	STD	Stad ah Haringvliet	HOL	N5145	E00415
26	0940	369	PS	Rotterdam	HOL	N5152	E00413
26	0941	350.5	ROT	Rotterdam	HOL	N5154	E00433
26	0942	404.5	RR	Rotterdam	HOL	N5200	E00446
26	0943	332	NV	Amsterdam Schiphol	HOL	N5209	E00446
26	0944	376	WP	Amsterdam Weesp	HOL	N5220	E00502
26	0945	326	LLS	Lelystad	HOL	N5228	E00532
26	0946	357	VZ	Eelde Groningen	HOL	N5302	E00624
26	0947	330	SO	Eelde Groningen	HOL	N5313	E00647
26	0950	318	HIG	Bremen	DEU	N5303	E00855
26	0951	372	NDO	Nordholz	DEU	N5347	E00849
26	0952	387	SLT	Sylt Westerland	DEU	N5452	E00825
26	1954	400.5	EJ	Esbjerg	DNK	N5533	E00842
26	1956	328	VJ	Stauning	DNK	N5600	E00826
27	0001	372	ODR	Odderoy	NOR	N5809	E00800
27	0002	319	VAR	Stavanger	NOR	N5838	E00538
27	0003	378	RSY	Stavanger Rennesoy	NOR	N5908	E00539
27	0006	267	FNO	Haugesund Foyno	NOR	N5922	E00509
27	0010	336	BTA	Bergen Bratta	NOR	N6003	E00518
27	0012	360	ASK	Bergen Askoe	NOR	N6025	E00511
27	0114	315.5	SS	Scatsta	SHE	N6028	W00113
27	0119	348	VG	Vagar	FRO	N6203	W00711
27	0121	337	MY	Myggnaes	FRO	N6206	W00735
27	0146	348	HA	Hofsa	ISL	N6538	W01503
27	0201	365	ES	Egilsstadir	ISL	N6514	W01427
27	0202	375	VM	Vestmannaeyjar	ISL	N6324	W02017
27	0203	345	HL	Vestmannaeyjar Helgafel	ISL	N6326	W02017
27	0204	392	KF	Keflavik	ISL	N6359	W02244
27	0206	330	RF	Rif	ISL	N6455	W02349
27	0208	316	RE	Reykjaneskoli	ISL	N6556	W02226
27	0209	372	OZN	Prins Christian Sund	GRL	N6004	W04310
27	0212	378	HO	Hopedale	NL	N5528	W06013
27	0308	396	JC	Rigolet	NL	N5411	W05826
27	0312	281	CA	Cartwright	NL	N5343	W05701
27	0313	356	AY	St Anthony	NL	N5123	W05606
27	0314	276	YHR	Chevery	QC	N5028	W05938
27	0315	280	QX	Gander	NL	N4858	W05440
27	0316	350	DF	Deer Lake	NL	N4911	W05727
27	0317	390	JT	Stephenville	NL	N4833	W05945
27	0318	263	QY	Sydney	NS	N4613	W05959
27	0319	520	F9	Miramichi	NB	N4701	W06528
27	0320	404	YSL	St Leonard	NB	N4712	W06752
27	0321	392	ML	Charlevoix	QC	N4737	W07020
27	0322	340	YY	Mont Joli	QC	N4834	W06816
27	0323	360	PN	Port Menier	QC	N4950	W06423

0	0	0
53	53	1
13	60	2
23	79	3
19	98	4
16	108	5
27	135	6
37	171	7
85	256	8
32	288	9
143	401	10
82	435	11
124	492	12
79	562	13
53	592	14
240	792	15
148	805	16
56	859	17
39	880	18
77	958	19
42	996	20
351	1,041	21
364	1,341	22
21	1,358	23
536	1,893	24
53	1,841	25
348	1,926	26
3	1,930	27
135	2,063	28
116	2,161	29
130	2,168	30
1,225	3,003	31
1,130	4,097	32
183	4,042	33
106	3,977	34
267	4,022	35
267	4,289	36
394	4,044	37
204	4,215	38
182	4,397	39
261	4,541	40
428	4,850	41
183	4,992	42
192	5,121	43
187	4,934	44
315	4,620	45

Start-Finish direct (km):	4,089
Total Flight distance (km):	9,505
Directness (%):	43
No. of Legs (NDBs):	46
Shortest leg (km):	3
Longest leg (km):	1,225
Legginess (%):	0

27	0326	220	BX	Blanc Sablon	QC	N5125	W05712	536	4,089	46
								Total:	9,505	

ITA wb William G Buchanan, Alessandria:

dd	UTC	kHz	Ident	Location	Cou.	Lat.	Long.	km LEG	direct km from start	Leg No.
			HOME:	Alessandria	ITA	N4449	E00849	0	0	0
24	1535	333.5	VOG	Voghera	ITA	N4458	E00858	21	21	1
24	1540	306	PAR	Parma	ITA	N4449	E01018	106	117	2
24	1704	332	PDA	Padova	ITA	N4524	E01153	140	249	3
24	1833	351.5	PLA	Pula	HRV	N4453	E01346	159	391	4
26	2015	340	BLK	Banja Luja	BIH	N4506	E01716	277	666	5
26	2053	348	TPL	Topola	SRB	N4415	E02042	288	943	6
26	2255	284	GRN	Gorna	BUL	N4310	E02536	412	1,353	7
								Total:	1,403	

To encourage realistic flights, pilots were asked to try to get a high value for all four of these:		ITA wb
Start-Finish direct (km):	1,353	
Total Flight distance (km):	1,403	
Directness (%):	96	
No. of Legs (NDBs):	7	
Shortest leg (km):	21	
Longest leg (km):	412	
Legginess (%):	5	

SCT ds David Atkins, Tighnabruaich, Argyll:

dd	UTC	kHz	Ident	Location	Cou.	Lat.	Long.	km LEG	direct km from start	Leg No.
			HOME:	Tighnabruaich	SCT	N5554	W00514	0	0	0
24	2220	355	PIK	Prestwick	SCT	N5530	W00435	60	60	1
24	2221	399	NGY	New Galloway	SCT	N5511	W00410	43	105	2
24	2222	328	CL	Carlisle	ENG	N5456	W00248	92	188	3
24	2225	359	RWY	Ronaldsway	IOM	N5405	W00436	150	206	4
24	2227	385	WL	Barrow / Walney Is.	ENG	N5408	W00316	87	233	5
24	2229	318	BPL	Blackpool	ENG	N5346	W00302	43	275	6
24	2315	320	CAE	Caernarfon	WLS	N5306	W00420	114	317	7
24	2337	356	WBA	Wolverhampton	ENG	N5231	W00216	153	423	8
25	0010	386	BZ	Brize Norton	ENG	N5145	W00136	97	520	9
25	2209	414	BRI	Bristol	ENG	N5123	W00243	87	529	10
25	2218	352	WOD	Woodley	ENG	N5127	W00053	127	571	11
25	2222	343	YVL	Yeovil	ENG	N5057	W00240	137	576	12

To encourage realistic flights, pilots were asked to try to get a high value for all four of these:		SCT ds
Start-Finish direct (km):	1,904	
Total Flight distance (km):	3,104	
Directness (%):	61	
No. of Legs (NDBs):	30	
Shortest leg (km):	37	
Longest leg (km):	195	
Legginess (%):	19	

26	0119	383	ALD	Alderney	GSY	N4943	W00212	142	718	13
26	0123	353	SB	St Brieuc	FRA	N4834	W00247	135	832	14
26	0125	349	RS	Rennes	FRA	N4803	W00135	106	908	15
26	0131	398	MT	St Nazaire	FRA	N4720	W00203	87	978	16
26	0132	357	LP	Cholet	FRA	N4708	W00050	95	1,022	17
26	0135	322	RL	La Rochelle	FRA	N4611	W00106	108	1,118	18
26	0142	427	RY	Royan	FRA	N4537	W00052	66	1,184	19
26	0144	361	NB	Bordeaux	FRA	N4509	W00033	58	1,241	20
26	0146	400	AG	Agen	FRA	N4409	E00041	148	1,373	21
26	0150	372	CSM	Castelsarrasin	FRA	N4402	E00107	37	1,395	22
26	0152	331.5	TLF	Toulouse	FRA	N4336	E00113	48	1,444	23
26	0219	397	PO	Pau	FRA	N4319	W00010	116	1,445	24
26	0221	422	PAM	Pamplona	ESP	N4243	W00138	137	1,489	25
26	0224	335	TON	Torraiba de Aragon	ESP	N4157	W00031	126	1,588	26
26	0226	389	ZRZ	Zaragoza	ESP	N4144	W00112	61	1,603	27
26	0230	404	LRD	Lerida	ESP	N4133	E00039	154	1,653	28
26	0232	380	VNV	Villanova	ESP	N4113	E00142	95	1,709	29
26	0235	384	ADX	Andraitx for Palma	BAL	N3933	E00223	195	1,904	30
Total:								3,104		

SUI ps Peter Schleuss, Winterthur:

dd	UTC	kHz	Ident	Location	Cou.	Lat.	Long.	km LEG	direct km from start	Leg No.
			HOME:	Winterthur	SUI	N4731	E00845	0	0	0
25	58	484	HOF	Hof	DEU	N5017	E01146	378	378	1
25	59	413.5	DLS	Lubars	DEU	N5237	E01322	282	657	2
25	101	363	OEM	Kristianstad	SWE	N5559	E01406	378	1,011	3
25	102	351	OV	Visby	SWE	N5744	E01824	327	1,307	4
25	2230	317	OZ	Kardla	EST	N5857	E02253	294	1,575	5
Total:								1,659		

To encourage realistic flights, pilots were asked to try to get a high value for all four of these:		SUI ps
Start-Finish direct (km):	1,575	
Total Flight distance (km):	1,659	
Directness (%):	95	
No. of Legs (NDBs):	5	
Shortest leg (km):	282	
Longest leg (km):	378	
Legginess (%):	75	