

**The European NDB Handbook / 2003 Edition
The European NDB Handbook CD / 2003 Edition**

**The North American NDB Handbook / 2003 Edition
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by Michael Oexner

Now in its fifth year, the **ENDBH 2003** will give you the most up to date NDB information available. Its over 140 spiral-bound pages in A4 format contain data of more than 4800 NDBs located throughout Europe, the Northern African countries, and the Near and Middle East. Many of the more frequently heard trans-atlantic NDBs have been included, as well as NDBs operating from offshore installations such as oil platforms. Moreover the handbook lists widely reported unidentified beacons and irregular call signs which result from so-called "negative keying". Many a NDB mystery may be solved with this kind of information on hand.

The **NANDBH 2003** with its 200+ pages is aimed at North American DXers and contains data of more than 5000 NDBs located throughout North, Central and South America, the Caribbean and the Pacific.

The layout of the NDB handbooks is arranged for ease of use: [part 1](#) (the reference list) shows the entries sorted by alphabetical order of the call sign and lists the carrier frequency, the modulation frequency, the authority or company taking care of the NDB, name and location of the NDB, country in ITU code, geographical coordinates, distance and Great Circle bearing. [Part 2](#) of the handbook is sorted in frequency order, [part 3](#) in country order, and part 4 gives details of decommissioned NDBs.

The **CD version** of the respective handbook contains all chapters of the printed version in the popular PDF file format. Having the NDB data available on your PC will allow you to easily search for specific entries. And if you would still like a printed version of the handbook, you can print it on your own now. The CD contains some additional "bonus tracks" which I hope you'll enjoy. This includes some NDB pictures and sounds plus some useful software packages to produce Great Circle maps or to calculate Great Circle distances and bearings, respectively. System requirements are a standard PC with CD-ROM drive and Microsoft Windows operating systems.

As a special benefit to the users of my NDB handbooks, **the distances and Great Circle bearings are computed for the individual listener's location.**

Please don't forget to **specify the geographic coordinates of your listening post when ordering** (recommended format to be used: degrees/minutes/seconds). Please let me know whether you prefer the distances shown either in kilometers or in miles.

Where to order

To get your copy please send your order and advance payment to the following address:
Michael Oexner, Hainfelder Str. 1, D-76835 Roschbach, Germany.

If you require more information about the publications please contact me at the following e-mail address:
michael.oexner@web.de

Delivery time

All handbooks and CDs will be produced individually, so a production time of 2 weeks should be expected. Surface mail delivery to the US can add another 8 to 10 days.

Price

The prices for the handbooks and CDs are shown in the table below:

	Europe	Surface mail to North America	Airmail to North America
ENDBH	€30 / £25 / US-\$ 30	US-\$ 30	US-\$ 40
ENDBH CD	€25 / £20 / US-\$ 25	US-\$ 25	US-\$ 30
NANDBH	€30 / £25 / US-\$ 30	US-\$ 30	US-\$ 40
NANDBH CD	€25 / £20 / US-\$ 25	US-\$ 25	US-\$ 30

How to pay

German customers: via bank transfer.

Foreign customers: you can always send your payment in the form of bank notes (Euro, British Pound, US Dollar). If you are using this method though do be sure to take the usual precautions of concealing them well inside your letter.

US or Canadian customers can send personal checks, cashier's checks, or postal money orders made out in US-\$.

PayPal: you can use PayPal to securely send and receive online payments.

Comments from users

"I received the NDB handbook in the mail today. Magnificent book. Thanks a million."
(PLF / USA)

"Today I safely received the NDB Handbook. It is excellent. Thank you very much. It is very nice. It looks like you included foreign NDBs also which was a pleasant surprise."
(NH / USA)

"The CD arrived a couple of days ago. I've been browsing through it and I can tell you that I'm very happy with the way you set it up! It was certainly a surprise to see that you had personalized both the CD label and the cover page of the directory."
(DP / USA)

"Last Thursday I did receive my personalized copy of the EU-NDB Handbook. I am more than pleased with it. Especially the call-list in alphabetical order is very very convenient. When I hear a new beacon (for me at least), I can find it in a few seconds in your list!"
(RB / Netherlands)

"Received today your CD. VERY GOOD JOB!!! Now, finally, I can scan NDB frequencies with a complete guide. Thank you again."
(EN / Italy)

"The NANDBH arrived in the mail on 1/21/03 in good condition. It is every thing you said it would be. In fact, I was able to add one more NDB to the log. A beacon that I thought was in Canada, after reading about negative keying, turn out to be EENAIE from Iowa in the US."
(KF / USA)

"Wanted to let you know that your NDB Handbook has arrived - and it is great! Thanks for a job well done."
(PC / USA)

"I just wanted to let you know that the CD with NDB info arrived here in good shape and worked flawlessly on my computer. It helped me already to identify quite a few previously unidentified signals!"
(AvW / Netherlands)

"Thanks for Handbook received safely 2 days ago - much quicker than I had expected!! I am very pleased with it - very thorough, accurate and so useful because it's personalized to my QTH!"
(PC / UK)

"Received your masterpiece yesterday, just before going to work. Got home about 2 A.M.; still "up" and enjoying the fruits of your labors! Thank you very much."
(HB / Canada)

"I have a number of references I use in my NDB listening. However, NANDBH has become the main reference in the short time I have had it. For active listeners it has several very nice features. It lists offsets for most NDB's, which many other lists do not. And it also shows the bearing and distance (in miles and kilometers) from the listener's location to each beacon. This feature alone has saved me acres of time because I keep track of both distance and bearing in my personal log. Previously, I had to calculate these using a website. Now, I just look them up! (...) I believe that North American listeners will find the Handbook to be a very useful addition to their reference shelf. In fact, my experience is that it spends very little time on the shelf because you use it almost constantly."
(AR / USA)

"Instead of having multiple resources to turn to for my NDB information, the NANDBH will be my #1 resource now when hunting NDB's. Thanks, Michael, for a big leap in the right direction for NDB DX information"
(TB / USA)

"The Handbook arrived last evening, and I really enjoyed paging through it. You did a magnificent job, and I want to thank you sehr viel!"
(CR / USA)

"Just received your NDB list 2002, and I just want to thank you very much !! Great work and thank you also very much for all your efforts and interest in keeping us NDB-freaks so well updated in this field of radio!"
(JR / Sweden)

"I received the handbook Tuesday. I have studied it a bit and found it even better than the 1999 edition that I had before. This is an excellent publication!!!"
(TK / Sweden)

"Just to let you know that I have just received your Handbook CD. I of course haven't fully explored it, but I must say that what I have seen looks most impressive! Thanks for a wonderful job!"
(FvG / Netherlands)

"Thank you very much for this inestimable tool you provide us with."
(JJ / France)

"Many thanks for the NDB handbook - a tremendous piece of work! I'm new to NDB DXing and together with info downloaded from Alan Gale's site your handbook is proving invaluable."
(ND / United Kingdom)

"Alles Super kann ich nur sagen, das Handbuch ist eine Spitzenarbeit!! Ich werde in Zukunft auf jeden Fall mehr mit NDB-DX zu Gange sein."
(SD / Germany)

"It's terrific! Nicely laid out, neat and comprehensive. Tailoring for my QTH is another big plus. I've already looked up a bunch of UNIDS in it."
(JS / Egypt)

"Your work with the Handbook and the CD has already improved my NDB hobby by untold amounts."
(KR / United Kingdom)

"I'm glad to see the continued improvements, year after year. I was also pleased to find that the main section shows both miles and km."
(AO / United Kingdom)

"All in all this list is the most complete and most user-friendly NDB list I have ever seen in my 20 years of NDB listening"
(RKA / Germany)

"The CD shows a high standard and good craftsmanship. The informational content is extraordinary detailed and very reliable. Best of all, the handbook is user friendly. If you have the basic skills in using Acrobat Reader, it will display exactly what you are looking for. The introductory chapter is must reading, whether you are starting to have an interest in NDB's or are just trying to broaden the horizon of your radio world"
(TJ / Norway)

Call	kHz	Hz	T	Station	ITU	Lat.	Long.	km	mi	°
BGU	316.0	400	civ	Oslo/Gardermoen/Bergerud	NOR	N59 51 00	E011 15 48	2119	1317	351
BGW	334.0	400	civ	Paris/Le Bourget	F	N48 56 21	E002 16 51	1437	893	312
BH	309.0		pri	Bu Hasa	UAE	N23 36 54	E053 22 48	3906	2427	108
BH	360.0		joi	Baghdad/Saddam International	IRQ	N33 11 42	E044 17 42	2577	1601	101
BHA	321.0		civ	Al Baha	ARS	N20 17 48	E041 38 48	3288	2043	127
BHM	354.0		iw	Bleo Holm FPSO/Bluewater Eng. RTF	IW	N58 06 03	W001 26 24	2289	1423	332
BHX	406.0	400	civ	Birmingham	G	N52 27 18	W001 45 06	1889	1174	318
BI	310.0	1020	civ	Kiev/Borispol	UKR	N50 23 51	E030 54 39	1497	930	42
BI	314.5		mar	Bejaïa/Jetée Est	ALG	N36 45 12	E005 06 12	1129	701	248
BI	352.0	1020	civ	Bahrain	BHR	N26 16 18	E050 38 24	3507	2179	107
BI	360.0		civ	Baku/Bina	AZE	N40 31 18	E050 02 00	2781	1728	80
BI	435.0		enr	Bisert	RUS	N56 51 00	E059 04 00	3471	2157	45
BI	480.0			Chortkov	UKR	N48 59 00	E025 44 00	1116	694	36
BI	700.0		enr	Dudinka	RUS	N69 25 00	E086 14 00	4998	3106	28
BI	810.0			Bishkek	KGZ	N42 52 00	E074 31 00	4685	2911	68
BIA	339.0	400	civ	Bournemouth	G	N50 46 40	W001 50 33	1796	1116	313
BIC	405.0	0	civ	Briare/Châtillon	F	N47 36 42	E002 47 00	1331	827	308
BIR	368.0			UNID	?					
BIS	283.0	0	enr	Biskra	ALG	N34 48 18	E005 44 30	1202	747	238
BJ	308.0		civ	Madrid/Barajas	E	N40 26 49	W003 33 45	1723	1070	274
BJ	405.0	1020	enr	Bjartangar	ISL	N65 30 09	W024 31 49	3745	2327	330
BJ	650.0		civ	Astrakhan/Narimanovo	RUS	N46 17 00	E048 04 30	2562	1592	67
BJ	735.0			Kalaus	RUS	N43 28 00	E045 13 00	2341	1454	74
BJA	376.0		mil	Beja	POR	N38 09 33	W007 55 18	2146	1334	269
BJA	423.0	0	civ	Bejaia/Soummam	ALG	N36 42 24	E005 01 29	1137	707	248
BJD	405.0		civ	Birjand	IRN	N32 54 18	E059 15 24	3841	2387	90
BJO	316.0	400		Björnøya	NOR	N74 30 06	E019 05 18	3719	2311	1
BJO	1600.0			Bermejo	BOL	S22 45 57	W064 18 39	10943	6800	247
BJZ	298.0		joi	Badajoz/Talavera la Real	E	N38 49 00	W006 41 54	2024	1257	271
BK	312.5	0	mar	Baltiysk	KAL	N54 38 18	E019 53 54	1519	944	8
BK	334.0		civ	Krasnoyarsk	RUS	N56 09 00	E092 35 06	5517	3428	45
BK	455.0			Lipetsk-2	RUS	N52 39 00	E039 26 00	2129	1323	45
BK	470.0	0		UNID	?					
BK	523.0	1020	enr	Lunino	RUS	N53 34 00	E045 12 00	2523	1567	47
BK	705.0		enr	Perm/Bolshoye Savino	RUS	N57 52 54	E055 57 30	3319	2062	43
BK	975.0		civ	Bishkek/Manas	KGZ	N43 04 12	E074 33 06	4681	2908	67
BKS	374.0	1020	enr	Békés	HNG	N46 47 42	E021 04 41	714	444	27
BKZ	432.0		enr	Beykoz	TUR	N41 07 37	E029 08 34	1030	640	86
BL	290.0		joi	Baghdad/Saddam International	IRQ	N33 20 36	E044 11 36	2561	1591	101
BL	335.0	1020	civ	Budapest/Ferihegy	HNG	N47 29 18	E019 11 18	731	454	14
BL	351.0	1020	civ	Blönduós	ISL	N65 41 10	W020 17 33	3583	2226	332
BL	352.0		civ	Addis Ababa/Bole Intl	ETH	N08 59 06	E038 49 13	4166	2589	143
BL	374.0	400	civ	Førde/Bringeland	NOR	N61 23 24	E005 45 38	2376	1477	345
BL	421.0	400	mil	Borlänge/Rommeled/Falun	S	N60 28 12	E015 24 42	2154	1339	358
BL	475.0		civ	Kazan	RUS	N55 34 30	E049 21 18	2854	1773	45
BL	508.0	1020		UNID	?					
BL	510.0	1020		UNID	?					
BL	620.0		enr	Bolgrad	MDA	N45 38 00	E028 40 00	1078	670	58
BL	790.0		civ	Balti	MDA	N47 47 53	E027 48 50	1142	710	46
BL	791.0		enr	Belozyorsk/Ozyorsk	RUS	N60 02 00	E037 46 00	2548	1583	27
BLA	350.0	1020	civ	Biella/Cerrione	I	N45 27 42	E008 07 24	857	533	307
BLB	397.0		civ	Blois/Le Breuil	F	N47 40 30	E001 12 12	1441	895	306
BLC	377.0	1020	enr	Blace	YUG	N43 14 48	E021 21 44	439	273	56
BLK	328.0	400	pri	Blackbushe	G	N51 19 24	W000 50 36	1767	1098	316
BLK	340.0		civ	Banja Luka	BIH	N45 05 42	E017 15 48	442	275	4
BLN	418.0	1020	enr	Bailén	E	N38 09 05	W003 37 45	1786	1110	266
BM	260.0		joi	Baghdad/Saddam International	IRQ	N33 17 00	E044 12 00	2565	1594	101
BM	301.0		joi	Bamako/Senou	MLI	N12 31 24	W007 58 18	3987	2478	225
BM	355.0			UNID	?					
BM	414.0			UNID	?					

Call	kHz	Hz	T	Station	ITU	Lat.	Long.	km	mi	°
SAL	274.0	0	civ	Sal/Amilcar Cabral Intl.	CPV	N16 42 06	W022 56 55	4671	2902	247
TNA	274.0		civ	Tan Tan/Plage Blanche	MRC	N28 25 42	W011 10 00	2909	1808	250
AMP	275.0		civ	Amapa	B	N02 04 06	W050 51 36	8006	4975	257
BS	275.0	1020	mil	Camp Bondsteel Army Heliport	YUG	N42 21 24	E021 14 58	389	242	68
CAE	275.0			Ben Slimane	MRC	N33 36 57	W007 06 48	2273	1412	256
EWN	275.0		civ	Yerevan/Zvartots	ARM	N40 14 12	E044 33 18	2333	1450	83
HK	275.0		civ	Athens Central	GRC	N37 49 06	E023 46 23	698	434	120
KB	275.0		civ	Kristiansund/Kvernberget/Haltvik	NOR	N63 07 06	E007 51 42	2518	1565	349
L	275.0	400	mil	Banak/Porsang	NOR	N69 53 45	E025 00 29	3237	2012	6
MS	275.0	1020	civ	Monastir/Habib Bourguiba Intl/Msaken	TUN	N35 43 32	E010 37 24	810	503	224
RUS	275.0		joi	Tehran/Mehrabad/Rudeshur	IRN	N35 26 42	E050 54 05	3023	1879	91
VG	275.0	400	civ	Haugesund/Karmøy/Våga	NOR	N59 16 48	E005 21 42	2173	1350	342
ZKU	275.0		pri	Zirku	UAE	N24 51 42	E053 04 48	3797	2359	107
JIR	276.0			Jiroft	IRN	N28 43 54	E057 40 18	3931	2443	97
YHR	276.0	400	civ	Chevery QC	CAN	N50 27 53	W059 38 04	5770	3585	308
YPC	276.0		civ	Paulatuk NT	CAN	N69 21 03	W124 04 31	7343	4563	346
BSF	276.5			UNID	?					
BW	276.5	1020	civ	Bremen	D	N53 02 48	E008 40 18	1462	908	338
1B	277.0			Sable Island offshore NS	CAN	N43 55 50	W060 01 22	6087	3782	301
BAS	277.0		joi	Basrah International	IRQ	N30 34 09	E047 38 28	2996	1862	103
BD	277.0		joi	Baghdad/Saddam International	IRQ	N33 19 30	E044 10 18	2560	1591	101
BRY	277.0	0	enr	Bray-sur-Seine	F	N48 24 24	E003 17 42	1342	834	312
CHT	277.0	400	enr	Chiltern for Northolt	G	N51 37 24	W000 31 00	1767	1098	317
GOL	277.0	1020	enr	Golyama	BUL	N43 05 54	E024 12 18	645	401	68
PO	277.0	1020	civ	St. Petersburg/Pulkovo	RUS	N59 46 48	E030 21 24	2275	1414	20
BNR	278.0		joi	Benghazi/Benina	LYB	N32 01 00	E020 19 00	1057	657	162
BT	279.0		civ	Belet Uen	SOM	N04 44 02	E045 10 57	4921	3057	137
GK	279.0			La Celle	TUN	N36 55 00	E008 25 00	868	539	240
OBD	279.0		civ	El Obeid	SDN	N13 10 03	E030 14 02	3360	2088	153
SI	279.0	400		Simiutaq	GRL	N60 40 54	W046 35 46	4729	2938	319
ARK	280.0		civ	Arak	IRN	N34 08 05	E049 50 57	2993	1860	94
OR	280.0			Warehouse 59A/Waha	LYB	N28 17 42	E019 56 12	1451	901	168
QX	280.0	400	civ	Gander/International NL	CAN	N48 57 52	W054 40 06	5492	3412	305
CA	281.0	400	civ	Cartwright NL	CAN	N53 42 38	W057 01 05	5482	3406	311
VIR	281.0	1020	civ	Barrow/Browerville AK	USA	N71 16 56	W156 46 53	7527	4677	358
AO	282.0	1020	mil	Szolnok	HNG	N47 04 54	E020 12 42	714	443	21
LA	282.0	400	mil	Lyneham	G	N51 30 30	W002 00 18	1847	1148	315
NSR	282.0		civ	Casablanca/Mohamed V	MRC	N33 17 00	W007 34 00	2328	1446	256
OA	282.0		mil	Szolnok	HNG	N47 09 48	E020 15 36	723	450	21
SI	282.0			Siguirí	SEN	N11 24 00	W009 11 12	4163	2587	225
SJ	282.0		civ	Sharjah International	UAE	N25 18 56	E055 32 23	3966	2464	104
BIS	283.0	0	enr	Biskra	ALG	N34 48 18	E005 44 30	1202	747	238
GRA	283.0		civ	Graciosa	AZR	N39 04 55	W028 01 05	3792	2356	282
KBV	283.0	400	enr	Kobbveg for Tromsø/Langnes	NOR	N69 30 18	E018 49 18	3161	1964	1
KK	283.0		civ	Kulusúk	GRL	N65 31 48	W037 09 24	4298	2671	327
M	283.0		civ	Mineralyne-Vody	RUS	N44 14 00	E043 04 00	2165	1345	72
SEB	283.0		civ	Sebha	LYB	N27 01 06	E014 28 30	1580	982	189
SF	283.0	400	civ	Torp/Sandefjord	NOR	N59 06 18	E010 15 36	2053	1275	349
VRL	283.0			Vrlika	YUG	N43 56 00	E016 26 00	314	195	354
B	283.5		mar	Cabo Trafalgar	E	N36 11 06	W006 02 06	2061	1281	262
NA	283.5	0	mar	Punta Lantaila	CNR	N28 13 42	W013 56 48	3143	1953	253
AM	284.0		civ	Almería	E	N36 52 36	W002 14 30	1718	1067	260
BAY	284.0		enr	El Bayadh	ALG	N33 41 24	E001 01 42	1624	1009	245
FSB	284.0	1020	mil	Fassberg	D	N52 54 56	E010 11 17	1404	873	341
GRN	284.0	1020	civ	Gorna Oryahovitsa	BUL	N43 09 39	E025 36 44	757	470	70
MY	284.0		civ	Maradi	NGR	N13 30 04	E007 06 33	3205	1992	200
NC	284.0		iw	Chevron Ninian Central	IW	N60 51 25	E001 28 09	2433	1512	340
NIN	284.0		iw	Chevron Ninian North	IW	N60 54 22	E001 25 16	2439	1515	340
OR	284.0		joi	Cairo	EGY	N30 01 48	E031 19 12	1793	1114	129
RT	284.0	400	civ	Rankin Inlet NU	CAN	N62 49 31	W092 06 34	6886	4279	331

Call	kHz	Hz	T	Station	ITU	Lat.	Long.	km	mi	°
YBG	356.0	400	mil	Bagotville QC	CAN	N48 20 02	W071 08 45	6626	4117	310
ZF	356.0	400	civ	Yellowknife NT	CAN	N62 24 38	W114 26 04	7734	4805	338
NL	358.0	400	civ	St John's/Signal Hill NL	CAN	N47 34 27	W052 41 07	5404	3358	302
YKG	358.0	400	civ	Kangiqsujuaq QC	CAN	N61 35 27	W071 55 43	6035	3750	324
PN	360.0	400	civ	Port Menier/Anticosti Island QC	CAN	N49 50 15	W064 23 11	6110	3797	309
HI	361.0	400	civ	Holman Island NT	CAN	N70 45 44	W117 47 24	7079	4398	345
YZS	362.0	400	civ	Coral Harbour NU	CAN	N64 08 55	W083 18 17	6438	4000	330
1F	363.0	400		Bathurst/Manta NB	CAN	N47 37 50	W065 44 41	6306	3918	307
2B	364.0	400	civ	Springdale NL	CAN	N49 29 24	W056 11 05	5576	3465	306
ZHZ	364.0	400	civ	Halifax/Split Crow	CAN	N44 48 08	W063 35 23	6299	3914	303
M	366.0	400	civ	Moncton/Mike NB	CAN	N46 06 15	W064 47 31	6317	3925	305
YMW	366.0	400		Maniwaki QC	CAN	N46 12 27	W075 57 23	7060	4387	309
ZMN	366.0	400	civ	Lewisville/Moncton NB	CAN	N46 06 15	W064 47 31	6317	3925	305
6F	367.0	400	civ	Port Hope Simpson NL	CAN	N52 31 13	W056 17 43	5475	3402	310
GR	370.0	400	civ	Grindstone/Îles-de-la-Madeleine QC	CAN	N47 22 30	W061 54 26	6057	3764	305
YBV	370.0	400	civ	Berens River MB	CAN	N52 21 15	W097 01 28	7857	4882	324
GW	371.0	400	civ	Kuujuarapik/Jarvik/La Baleine QC	CAN	N55 17 05	W077 45 05	6646	4129	319
YCO	372.0	400	civ	Kugluktuk/Coppermine NU	CAN	N67 49 16	W115 05 53	7275	4520	342
YXK	373.0	400	civ	Rimouski QC	CAN	N48 28 40	W068 30 11	6446	4005	309
YZG	375.0	400	civ	Salluit QC	CAN	N62 10 46	W075 40 38	6191	3847	326
HO	378.0	400	civ	Hopedale NL	CAN	N55 27 27	W060 12 33	5621	3493	314
UX	378.0	400	civ	Hall Beach NU	CAN	N68 46 02	W081 15 23	6125	3806	334
UB	380.0	400	civ	Tuktoyaktuk NT	CAN	N69 26 04	W133 01 02	7498	4659	349
YE	382.0	400	civ	Fort Nelson BC	CAN	N58 47 45	W122 43 21	8320	5170	340
YSR	382.0		civ	Nanisivik NU	CAN	N72 58 29	W084 31 59	6040	3753	339
NA	385.0	400	civ	Natashquan QC	CAN	N50 13 20	W061 50 30	5926	3682	308
MM	388.0	400		Fort McMurray AB	CAN	N56 39 14	W111 20 10	8134	5054	333
JT	390.0	400	civ	Stephenville NL	CAN	N48 32 38	W058 45 17	5789	3597	305
VP	390.0	400	civ	Kuujuuaq/Kujack QC	CAN	N58 03 22	W068 29 11	6001	3729	319
ML	392.0	400	civ	Charlevoix QC	CAN	N47 37 24	W070 19 28	6611	4108	309
YL	395.0	400	civ	Lynn Lake MB	CAN	N56 49 51	W101 04 13	7701	4785	329
JC	396.0	400	civ	Rigolet NL	CAN	N54 10 35	W058 26 07	5556	3452	312
PH	396.0	400	civ	Inukjuak QC	CAN	N58 27 06	W078 06 47	6495	4036	322
YPO	401.0	400	civ	Peawanuck ON	CAN	N54 59 28	W085 26 35	7078	4398	321
YSL	404.0	400	civ	St. Leonard NB	CAN	N47 12 28	W067 52 11	6470	4020	307
BC	414.0	400	civ	Baie Comeau QC	CAN	N49 07 04	W068 19 34	6402	3978	309
F9	520.0	400		Miramichi/Chatham NB	CAN	N47 00 36	W065 28 03	6318	3926	306
CE	288.0		mar	Ceuta/Dique de Poniente	CEU	N35 53 48	W005 18 36	2014	1251	261
LGM	1602.0			Leguizamo	CLM	S00 11 00	W074 48 00	10165	6316	271
TDA	1610.0			Trinidad	CLM	N05 26 00	W071 39 03	9494	5899	273
ORI	1635.0			Orito	CLM	N00 39 59	W076 49 02	10273	6383	273
NA	283.5	0	mar	Punta Lantailla	CNR	N28 13 42	W013 56 48	3143	1953	253
LT	300.0		mar	La Isleta	CNR	N28 10 24	W015 25 00	3265	2029	254
LZ	310.0	1020	civ	Lanzarote	CNR	N28 57 19	W013 36 43	3070	1908	254
TES	317.0		civ	Tenerife Sur/Reina Sofia	CNR	N28 03 12	W016 33 42	3365	2091	255
PM	350.0		civ	Gran Canaria/Las Palmas	CNR	N27 54 30	W015 23 42	3280	2038	254
VR	365.0	1020	civ	Gran Canaria/Las Palmas	CNR	N27 51 18	W015 25 12	3285	2041	254
HR	376.0	1020	civ	Hierro	CNR	N27 48 58	W017 53 11	3488	2167	256
BV	389.0	1020	civ	La Palma	CNR	N28 36 00	W017 45 18	3429	2131	257
FV	397.0		civ	Fuerteventura	CNR	N28 22 57	W013 51 58	3127	1943	253
TX	410.0	1020	civ	Tenerife Norte/Los Rodeos	CNR	N28 27 06	W016 15 24	3316	2060	256
FP	420.0		civ	Tenerife Norte/Los Rodeos	CNR	N28 29 24	W016 22 06	3322	2064	256
TFN	432.0			Tenerife Norte	CNR	N28 32 12	W016 16 09	3311	2058	256
SAL	274.0	0	civ	Sal/Amilcar Cabral Intl.	CPV	N16 42 06	W022 56 55	4671	2902	247
MO	308.0		mar	Ponta Moreia/Ilha de Santiago	CPV	N15 20 06	W023 45 12	4838	3006	246
VE	308.0		mar	Monte Verde/Ilha de São Vicente	CPV	N16 52 00	W024 56 24	4813	2991	249
SVT	333.0	1020	civ	São Vicente/São Pedro	CPV	N16 49 44	W025 03 54	4826	2999	249
BVT	341.0		civ	Boavista/Rabil	CPV	N16 09 04	W022 53 17	4709	2926	246
PRA	349.0	1020	civ	Praia/Francisco Mendes	CPV	N14 55 22	W023 29 47	4850	3014	245
NCL	357.0	1020	civ	São Nicolau/Preguica	CPV	N16 33 46	W024 17 00	4785	2973	248