

**"See the USA Charter ... Part One" for FS2002 and FS2004.**  
**The included readme.txt file contains complete installation instructions**  
**NOTE: Unless Otherwise specified all NDBs are on 684 kHz**

**August 2006**

Flight # Distance	FROM Airport	WAYPOINT	TO Airport	Mag Course	NM 7690	Min Alt	145 kt Time
001-09-01 78 NM	Caribou, Maine KCAR 626 ft		Millinocket, Maine KMLT 406 ft NDB 002	220	78.4	3000	32.4
001-09-02 51 NM	Millinocket, Maine KMLT 406 ft		Bangor, Maine KBGR 193 ft NDB 003	205	50.8	3000	21.0
001-09-03 51 NM	Bangor, Maine KBGR 193 ft		Augusta, Maine KAUG 351 ft NDB 004	252	50.7	3000	21.0
001-09-04 46 NM	Augusta, Maine KAUG 351 ft		Portland, Maine KPWM 75 ft NDB 005	226	46.1	3000	19.1
001-09-05 84 NM	Portland, Maine KPWM 75 ft	Portsmouth, New Hampshire KPSM 98 ft NDB 006		230	40.8	3000	16.9
			Boston, Massachusetts KBOS 19 ft NDB 007	206	43.6	3000	
001-09-06 43 NM	Boston, Massachusetts KBOS 19 ft		Providence, Rhode Island KPVD 55 ft NDB 008	222	42.8	3000	17.7
001-09-07 55 NM	Providence, Rhode Island KPVD 55 ft		Hartford, Connecticut KHFD 19 ft NDB 009	285	54.7	3000	22.6

Flight # Distance	FROM Airport	WAYPOINT	TO Airport	Mag Course	NM	Min Alt	145 kt Time
001-09-08 96 NM	Hartford, Connecticut KHFD 19 ft	New York, New York KLGA 22 ft NDB 010		237	79.7	3000	33.0
		New York City Pier <b>NDB 011 688 kHz</b>		276	5.9	3000	2.4
		Statue of Liberty South over Hudson River		217	5.0	1500	2.1
			Newark, New Jersey KEWR 16 ft <b>NDB 012 686 kHz</b>	285	5.6		2.3
001-09-09 53 NM	Newark, New Jersey KEWR 16 ft		Philadelphia, Pennsylvania KPNE 121 ft NDB 013	238	53.1	3000	22.0
001-09-10 94 NM	Philadelphia, Pennsylvania KPNE 121 ft		Baltimore, Maryland KBWI 147 ft NDB 014	245	94.0	3000	38.9
001-09-11 26 NM	Baltimore, Maryland KBWI 147 ft		Washington, D.C. KDCA 16 ft NDB 015	231	25.9	3000	
001-09-12 82 NM	Washington, D.C. KDCA 16 ft		Richmond, Virginia KRIC 167 ft NDB 016	199	81.9	3000	33.9
001-09-13 121 NM	Richmond, Virginia KRIC 167 ft		Raleigh, North Carolina KRDU 436 ft NDB 017	223	120.5	3000	49.9
001-09-14 112 NM	Raleigh, North Carolina KRDU 436 ft		Florence, South Carolina KFLO 147 ft NDB 018	210	111.5	3000	46.1

Flight # Distance	FROM Airport	WAYPOINT	TO Airport	Mag Course	NM	Min Alt	145 kt Time
001-09-15 90 NM	Florence, South Carolina KFLO 147 ft		Charleston, South Carolina KJZI 16 ft NDB 019	194	90.2	3000	37.3
001-09-16 70 NM	Charleston, South Carolina KJZI 16 ft		Savannah, Georgia KSAV 49 ft NDB 020	245	69.8	3000	28.9
001-09-17 109 NM	Savannah, Georgia KSAV 49 ft		Jacksonville, Florida KCRG 39 ft NDB 021	192	108.7	3000	45.0
001-09-18 73 NM	Jacksonville, Florida KCRG 39 ft		Daytona Beach, Florida KDAB 32 ft NDB 022	164	73.4	3000	30.4
001-09-19 68 NM	Daytona Beach, Florida KDAB 32 ft		Melbourne, Florida KMLB 32 ft NDB 023	165	68.2	3000	28.2
001-09-20 60 NM	Melbourne, Florida KMLB 32 ft	Stuart, Florida KSUA 16 ft NDB 024		161	59.7		
		West Palm Beach, Florida KPBI 19 ft NDB 025					
			Miami, Florida KOPF 6 ft NDB 026	171	30.7	3000	
				195	47.6	3000	19.7

Flight # Distance	FROM Airport	WAYPOINT	TO Airport	Mag Course	NM	Min Alt	145 kt Time
001-09-21 130 NM	Miami, Florida KOPF 6 ft	Tavernaero, Florida FA81 9 ft NDB 027		195	55.6	3000	23.0
		Marathon, Florida KMTH 6 ft NDB 028		244	34.2	3000	14.2
			Key West, Florida KEYW 3 ft NDB 029	257	39.9	3000	16.5
001-09-22 124 NM	Key West, Florida KEYW 3 ft	Marco Island, Florida KMKY 6 ft NDB 030		005	86.5	3000	35.8
			Fort Myers, Florida KFMY 16 ft NDB 031	346	37.0	3000	15.3
001-09-23 86 NM	Fort Myers, Florida KFMY 16 ft		Tampa, Florida KTPF 6 ft NDB 032	341	85.7	3000	35.5
001-09-24 111 NM	Tampa, Florida KTPF 6 ft	Crystal River, Florida KCGC 9 ft NDB 033		355	57.6	3000	23.8
			Cross City, Florida KCTY 42 ft NDB 034	332	53.6	3000	22.2
001-09-25 79 NM	Cross City, Florida KCTY 42 ft		Tallahassee, Florida KTLH 82 ft NDB 035	307	79.2	3000	32.8
001-09-26 115 NM	Tallahassee, Florida KTLH 82 ft		Crestview, Florida KCEW 213 ft NDB 036	282	114.5	3000	47.4

Flight # Distance	FROM Airport	WAYPOINT	TO Airport	Mag Course	NM	Min Alt	145 kt Time
001-09-27 80 NM	Crestview, Florida KCEW 213 ft		Mobile, Alabama KBFM 26 ft NDB 037	263	80.3	3000	33.2
001-09-28 108 NM	Mobile, Alabama KBFM 26 ft	Biloxi, Mississippi KGPT 29 ft NDB 038		254	53.4	3000	22.1
001-09-29 166 NM	New Orleans, Louisiana KNEW 9 ft		New Orleans, Louisiana KNEW 9 ft NDB 039	244	54.3	3000	22.5
001-09-30 52 NM	Lake Charles, Louisiana KLCH 16 ft		Lake Charles, Louisiana KLCH 16 ft NDB 040	268	166.0	3000	68.7
001-09-31 59 NM	Beaumont, Texas KBMT 32 ft		Beaumont, Texas KBMT 32 ft NDB 041	262	51.6	3000	21.4
001-09-32 32 NM	Galveston, Texas KGLS 6 ft		Galveston, Texas KGLS 6 ft NDB 042	209	58.9	3000	24.4
001-09-33 62 NM	Houston, Texas KHOU 45 ft		Houston, Texas KHOU 45 ft NDB 043	311	31.6	3000	13.1
001-09-34 94 NM	Navasota, Texas 60R 226 ft		Navasota, Texas 60R 226 ft NDB 044	309	61.5	3000	25.4
			Waco, Texas KACT 515 ft NDB 045	316	94	3000	38.9

Flight # Distance	FROM Airport	WAYPOINT	TO Airport	Mag Course	NM	Min Alt	145 kt Time
001-09-35 77 NM	Waco, Texas KACT 515 ft		Dallas, Texas KDAL 485 ft NDB 046	008	76.6	3000	31.7
001-09-36 26 NM	Dallas, Texas KDAL 485 ft		Fort Worth, Texas KFTW 708 ft NDB 047	260	25.8	3000	10.7
001-09-37 120 NM	Fort Worth, Texas KFTW 708 ft		Abilene, Texas KABI 1791 ft NDB 048	251	119.8	4000	49.6
001-09-38 94 NM	Abilene, Texas KABI 1791 ft		Big Spring, Texas T49 2572 ft NDB 049	254	94.1	5000	38.9
001-09-39 89 NM	Big Spring, Texas T49 2572 ft		Wink, Texas KINK 2821 ft NDB 050	244	89.3	6000	37.0
001-09-40 102 NM	Wink, Texas KINK 2821 ft		Guadalupe Pass, Texas 2E5 3700 ft NDB 051	267	102.3	10000	42.3
001-09-41 61 NM	Guadalupe Pass, Texas 2E5 3700 ft		El Paso, Texas KELP 3956 ft NDB 052	251	60.9	8000	25.2
001-09-42 64 NM	El Paso, Texas KELP 3956 ft		Columbus, New Mexico ONM0 4025 ft NDB 053	260	63.7	8000	26.4
001-09-43 109 NM	Columbus, New Mexico ONM0 4025 ft		Cochise, Arizona P03 4124 ft NDB 054	245	108.9	10000	45.1
001-09-44 89 NM	Cochise, Arizona P03 4124 ft		Tucson, Arizona KRYN 2401 ft NDB 055	290	88.7	10000	36.7

Flight # Distance	FROM Airport	WAYPOINT	TO Airport	Mag Course	NM	Min Alt	145 kt Time
001-09-45 103 NM	Tucson, Arizona KRYN 2401 ft		Phoenix, Arizona KDVT 1476 ft NDB 056	321	103.4	6000.0	42.8
001-09-46 132 NM	Phoenix, Arizona KDVT 1476 ft		Blythe, California KBLH 396 ft NDB 057	256	131.6	5000	54.5
001-09-47 138 NM	Blythe, California KBLH 396 ft		Riverside, California KRAL 816 ft NDB 058	265	137.5	7000	56.9
001-09-48 48 NM	Riverside, California KRAL 816 ft		Los Angeles, California KBUR 777 ft NDB 059	274	47.8	4000	19.8
001-09-49 82 NM	Los Angeles, California KBUR 777 ft		Bakersfield, California KBFL 508 ft NDB 060	321	81.6	8000	33.8
001-09-50 86 NM	Bakersfield, California KBFL 508 ft		Fresno, California KFCH 278 ft NDB 061	320	86.3	4000	35.7
001-09-51 76 NM	Fresno, California KFCH 278 ft		Modesto, California KMOD 98 ft NDB 062	299	76.3	3000	31.6
001-09-52 60 NM	Modesto, California KMOD 98 ft		Oakland, California KOAK 6 ft NDB 063	260	60.4	4000	25.0
001-09-53 59 NM	Oakland, California KOAK 6 ft		Sacramento, California KSAC 22 ft NDB 064	019	58.6	4000	24.2

Flight # Distance	FROM Airport	WAYPOINT	TO Airport	Mag Course	NM	Min Alt	145 kt Time
001-09-54 109 NM	Sacramento, California KSAC 22 ft	Williams, California Q12 68 ft NDB 065		307	49.1	3000	20.3
		Red Bluff, California KRBL 347 ft NDB 066		338	59.5	3000	24.6
001-09-55 138 NM	Red Bluff, California KRBL 347 ft	Fort Jones, California 23CA 2860 ft NDB 067		328	91.5	9000	37.9
		Medford, Oregon KMFR 1335 ft NDB 068		336	45.2	9000	18.7
001-09-56 106 NM	Medford, Oregon KMFR 1335 ft		Eugene, Oregon KEUG 367 ft NDB 069	333	106.0	8000	43.9
001-09-57 92 NM	Eugene, Oregon KEUG 367 ft		Portland, Oregon KPDX 29 ft NDB 070	357	91.8	4000	38.0
001-09-58 119 NM	Portland, Oregon KPDX 29 ft	Ethel, Washington WN34 580 ft NDB 071		336	56.7	5000	23.5
		Seattle, Washington KBFI 16 ft NDB 072		354	62.0	5000	25.7

Flight # Distance	FROM Airport	WAYPOINT	TO Airport	Mag Course	NM	Min Alt	145 kt Time
001-09-59 48 NM 78 NM	Seattle, Washington KBFI 16 ft	Easton, Washington KESW 2221 ft NDB 073		090	48.2	8000	19.9
			Ellensburg, Washington KELN 1761 ft NDB 074	097	30.0	7000	12.4
001-09-60 45 NM	Ellensburg, Washington KELN 1761 ft		Ephrata, Washington KEPH 1276 ft NDB 075	049	44.6	7000	18.5
001-09-61 92 NM	Ephrata, Washington KEPH 1276 ft		Spokane, Washington KSFF 1952 ft NDB 076	056	91.7	6000	37.9
001-09-62 109 NM	Spokane, Washington KSFF 1952 ft	Couer d'Alene, Idaho KCOE 2319 ft NDB 077		056	21.0	6000	8.7
		Mullan Pass S83 2224 ft NDB 078		099	28.9	8000	12.0
			Superior, Montana 9S4 2785 ft NDB 079	094	58.8	9000	24.3

Flight # Distance	FROM Airport	WAYPOINT	TO Airport	Mag Course	NM	Min Alt	145 kt Time
001-09-63 75 NM	Superior, Montana 9S4 2785 ft	Missoula, Montana KMISO 3205 ft NDB 080		098	34.7	10000	14.4
			Drummond, Montana KDRU 4245 ft NDB 081	099	40.5	9000	16.8
001-09-64 50 NM	Drummond, Montana KDRU 4245 ft		Helena, Montana KHLN 3874 ft NDB 082	074	50.4	10000	20.9
001-09-65 89 NM	Helena, Montana KHLN 3874 ft	Belgrade, Montana 4MT1 4360 ft NDB 083		127	58.6	11000	24.2
			Livingston, Montana KLVM 4655 ft NDB 084	088	30.1	11000	12.5
001-09-66 80 NM	Livingston, Montana KLVM 4655 ft		Billings, Montana KBIL 3648 ft NDB 085	070	80.0	9000	33.1
001-09-67 117 NM	Billings, Montana KBIL 3648 ft	Custer, Montana MT34 2739 ft NDB 086		050	45.8	7000	19.0
			Miles City, Montana KMLS 2631 ft NDB 087	062	71.3	7000	29.5

Flight # Distance	FROM Airport	WAYPOINT	TO Airport	Mag Course	NM	Min Alt	145 kt Time
001-09-68 129 NM	Miles City, Montana KMLS 2631 ft	Golva, North Dakota 5ND1 2759 ft NDB 088		066	83.9	7000	34.7
001-09-69 85 NM	Dickinson, North Dakota KDIK 2591 ft		Dickinson, North Dakota KDIK 2591 ft NDB 089	071	45.2	6000	18.7
001-09-70 85 NM	Dickinson, North Dakota KDIK 2591 ft		Bismarck, North Dakota KBIS 1660 ft NDB 090	080	84.5	6000	35.0
001-09-71 76 NM	Jamestown, North Dakota KBIS 1660 ft		Jamestown, North Dakota KJMS 1499 ft NDB 091	075	85.4	5000	35.3
001-09-72 86 NM	Fargo, North Dakota KFAR 898 ft		Fargo, North Dakota KFAR 898 ft NDB 092	083	76.3	5000	31.6
001-09-73 103 NM	Alexandria, Minnesota KAXN 1423 ft		Alexandria, Minnesota KAXN 1423 ft NDB 093	132	86.4	5000	35.8
001-09-74 110 NM	Minneapolis, Minnesota KFCM 905 ft		Minneapolis, Minnesota KFCM 905 ft NDB 094	124	102.8	5000	42.5
001-09-75 62 NM	La Crosse, Wisconsin KLSE 652 ft		La Crosse, Wisconsin KLSE 652 ft NDB 095	119	110.2	4000	45.6
001-09-76 62 NM	Lone Rock, Wisconsin KLNK 718 ft		Lone Rock, Wisconsin KLNK 718 ft NDB 096	130	61.6	4000	25.5

Flight # Distance	FROM Airport	WAYPOINT	TO Airport	Mag Course	NM	Min Alt	145 kt Time
001-09-76 94 NM	Lone Rock, Wisconsin KLNK 718 ft		Milwaukee, Wisconsin KMWK 744 ft NDB 097	094	94.2	4000	39.0
001-09-77 80 NM	Milwaukee, Wisconsin KMWK 744 ft		Chicago, Illinois KMDW 620 ft NDB 098	172	80.4	4000	33.3
001-09-78 100 NM	Chicago, Illinois KMDW 620 ft	Gary, Indiana KGYG 590 ft <b>NDB 099 688 kHz</b>		126	18.3	4000	7.6
		La Porte, Indiana KPPO 810 ft NDB 100		097	30.6	4000	12.7
			South Haven, Michigan 0D1 662 ft NDB 101	027	51.3	4000	21.2
001-09-79 87 NM	South Haven, Michigan 0D1 662 ft	Grand Rapids, Michigan KGRR 793 ft NDB 102		048	45.4	4000	18.8
			Lansing, Michigan KLAN 859 ft NDB 103	102	41.6	4000	17.2
001-09-80 73 NM	Lansing, Michigan KLAN 859 ft		Detroit, Michigan KDET 626 ft NDB 104	113	73.1	4000	30.2

Flight # Distance	FROM Airport	WAYPOINT	TO Airport	Mag Course	NM	Min Alt	145 kt Time
001-09-81 61 NM	Detroit, Michigan KDET 626 ft		Toledo, Ohio KTOL 682 ft NDB 105	221	60.8	4000	25.2
001-09-82 99 NM	Toledo, Ohio KTOL 682 ft	Lorain, Ohio KLPR 793 ft NDB 106		107	74.7	4000	30.9
			Cleveland, Ohio KBKL 583 ft NDB 107	071	24.5	4000	10.1
001-09-83 76 NM	Cleveland, Ohio KBKL 583 ft	Painesville, Ohio OH90 695 ft NDB 108		065	24.5	4000	10.1
			Erie, Pennsylvania KERI 731 ft NDB 109	074	51.1	4000	21.1
001-09-84 83 NM	Erie, Pennsylvania KERI 731 ft	Dunkirk, New York KDKK 692 ft NDB 110		067	47.1	4000	19.5
			Buffalo, New York KBUF 725 ft NDB 111	051	35.9	4000	14.9
001-09-85 116 NM	Buffalo, New York KBUF 725 ft		Syracuse, New York KSYR 419 ft NDB 112	096	115.6	4000	47.8

Flight # Distance	FROM Airport	WAYPOINT	TO Airport	Mag Course	NM	Min Alt	145 kt Time
001-09-86 32 NM	Syracuse, New York KSYR 419 ft		Utica, New York KUCA 741 ft NDB 113	099	31.7	4000	13.1
001-09-87	Utica, New York KUCA 741 ft		Albany, New York KALB 285 ft NDB 114	122	73.4	5000	30.4
001-09-88 65 NM	Albany, New York KALB 285 ft		Springfield, Massachusetts KCEF 246 ft NDB 115	134	65.1	5000	26.9
001-09-89 69 NM	Springfield, Massachusetts KCEF 246 ft		Boston, Massachusetts KBOS 19 ft NDB 007	097	68.6	4000	28.4
001-09-90 55 NM	Boston, Massachusetts KBOS 19 ft		Concord, New Hampshire KCON 344 ft NDB 116	352	54.9	5000	22.7
001-09-91 104 NM	Concord, New Hampshire KCON 344 ft		Burlington, Vermont KBTV 334 ft NDB 117	333	104.4	6000	43.2
001-09-92 21 NM	Burlington, Vermont KBTV 334 ft		Plattsburgh, New York KPLB 370 ft <b>NDB 118 688 kHz</b>	324	20.5	4000	8.5