

Name: Paul Jackson
Project Name: DTW ZETTR SID
Output File: KDTW ZETTR1 SID
RW03L DUTEL
20171113_1423
Procedure Name: ZETTR1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 11/13/2017 2:24:58 PM
Input File: [KDTW ZETTR SID RW03L
DUTEL 20170724_1300.txt](#)
Databases: AIRNAV Date: 10/27/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

Results Summary:

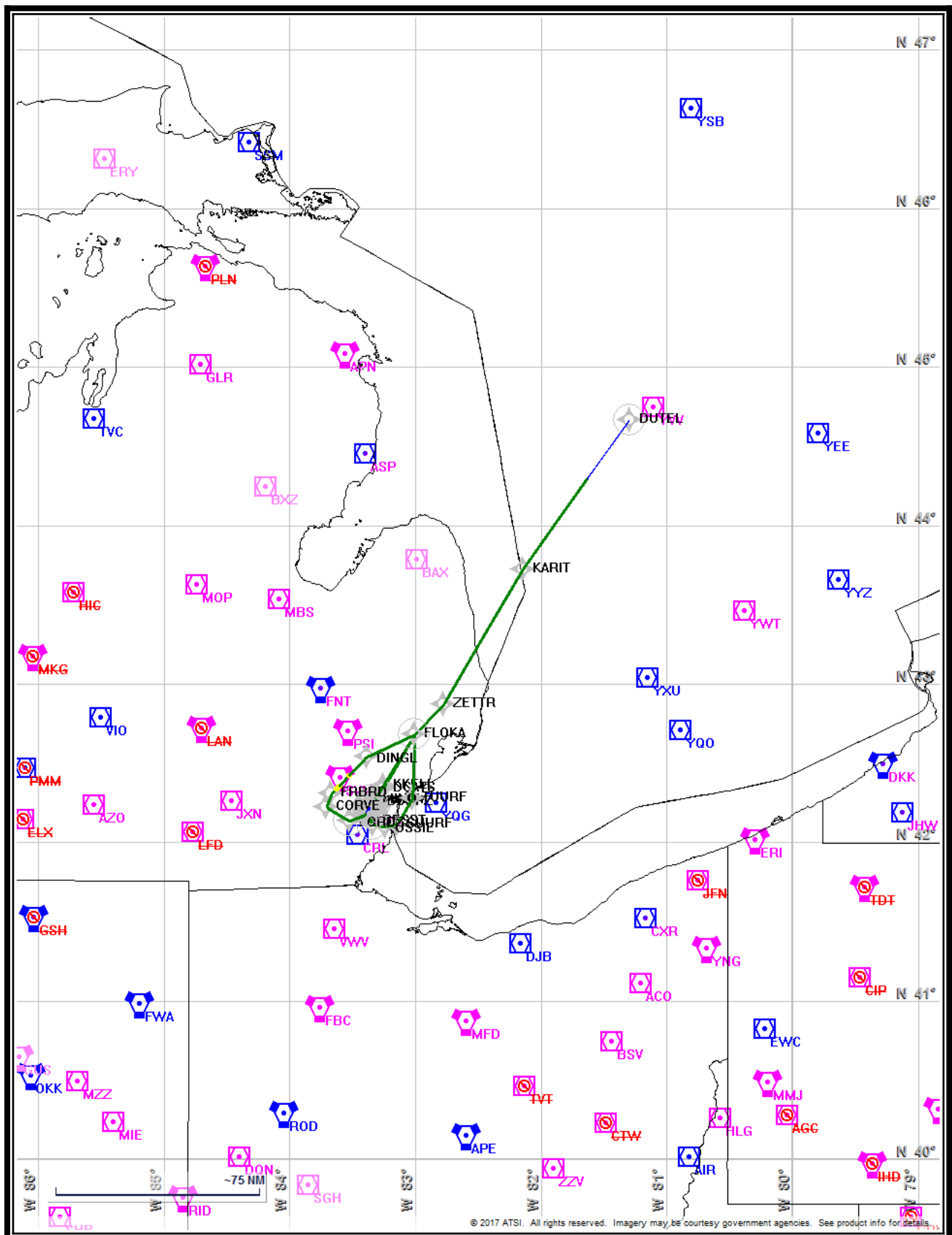
Flyability  Please Check **Flyability** Results

DME/DME  No Critical DMEs Exist

Radars 

Comms 

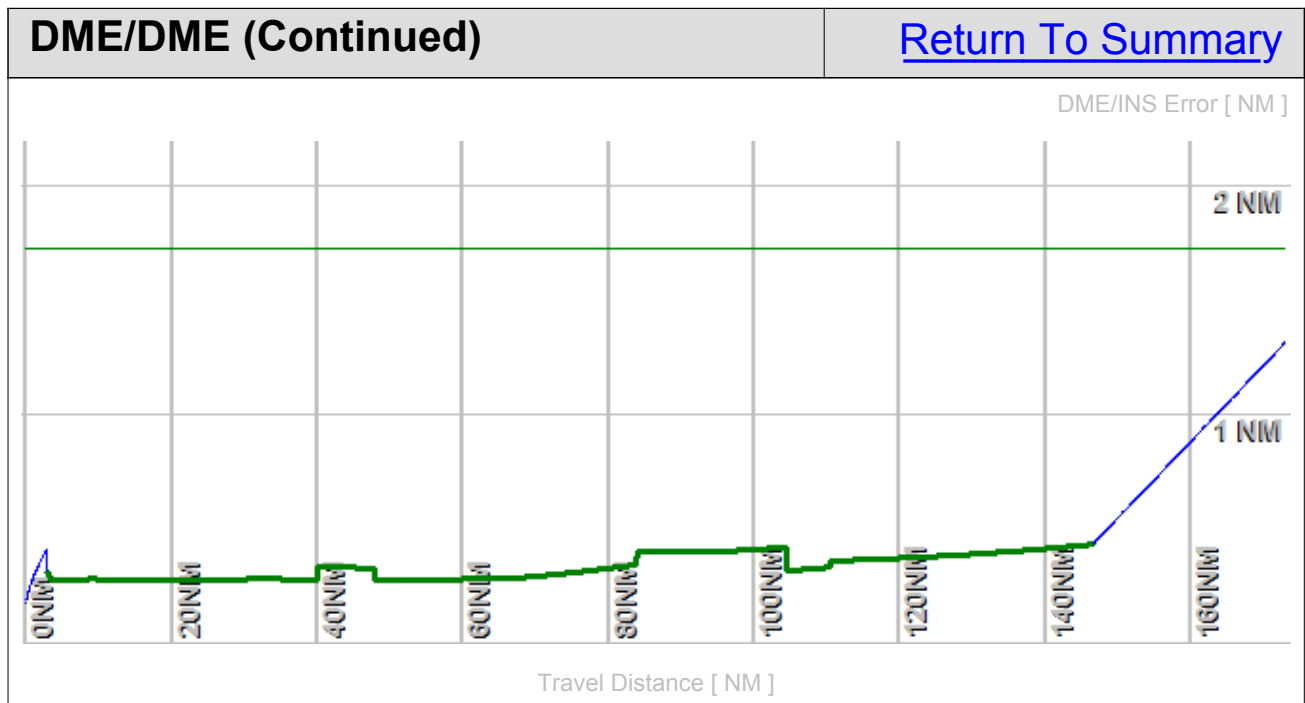
TERPS 



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW03L(...	WP	N 42° 12' 28.21" W 83° 21' 4.39"	635.9	VNAV	0.0	Fly Over	TF
RW21R(...	WP	N 42° 13' 41.85" W 83° 20' 10.12"	666.6	VNAV	130.0	Fly Over	VA
GH03L:	WP	N 42° 14' 36.00" W 83° 19' 30.18"	1181.0	VNAV	145.0	Fly Over	DF
DCATS	WP	N 42° 20' 21.02" W 83° 15' 12.40"	2495.7	VNAV	145.0	Fly By	TF
FLOKA	WP	N 42° 40' 49.29" W 83° 0' 13.05"	4000.0	VNAV	145.0	Fly By	TF
ZETTR	WP	N 42° 52' 11.06" W 82° 46' 30.61"	7000.0	VNAV	145.0	Fly By	TF
KARIT	WP	N 43° 43' 23.00" W 82° 8' 40.00"	12000.0	VNAV	210.0	Fly By	TF
DUTEL	WP	N 44° 39' 59.00" W 81° 17' 47.00"	12000.0	VNAV	210.0	Fly Over	TF
Climb Gradient: Table: 500.0 ft/NM up to 1146.0 ft MSL 200.0 ft/NM up to 10000.0 ft MSL							

Flyability	Return To Summary
Settings:	<p>Flight Type: Runway Departure Selected Airport: KDTW Aircraft Category: Cat D Climb Gradient: Table: 500.0 ft/NM up to 1146.0 ft MSL 200.0 ft/NM up to 10000.0 ft MSL Ground Speeds: Departure: 120.0 Kts out to 10.0 NM Table: 200.0 Kts up to 11000.0 ft 240.0 Kts up to 18000.0 ft 260.0 Kts up to 24000.0 ft 340.0 Kts up to 99900.0 ft Wind Settings: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan</p>
	<p>Aircraft ALTITUDE at Fly-By WP FLOKA too high. Aircraft ALTITUDE at Fly-By WP ZETTR too high. Flight Track comes into contact with terrain. Minimum AGL along route was -51.26 Ft. Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.</p>

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.165 NM INS Drift Rate: 8.000 NM/Hour Range Mode: OSV Co-Frequencies: Evaluated RNP Edges: Evaluated Min DME Range: 3.0 NM Allowed Gap Length: 4.0 NM DME Types: VOR/DME, VORTAC, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated Minimum MSL DMEs Avail: 1239 ft </p>
<p> Total Number of DMEs Used: 9 Maximum DME Error: 1.320 NM. No Critical DMEs were found. Available DMEs: CRL, YQG, SVM, DXO, PSI, ASP, MBS, FNT, APN Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV Foreign DMEs within range: YEE, YQG, YQO, YVV, YWT, YXU, YYZ, YCF, UTR, YSB, UYB, YXI, YOW Co-Frequency Interference: 108.2(BAX, FBC) </p>	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	1.320	Enabled	11.6%	7.9%
2	YQG	N 42° 14' 59.00" W 82° 49' 44.20" 06 W	H	Database	NO	1.320	Enabled	15.7%	13.9%
3	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	Database	NO	1.320	Enabled	10.5%	8.1%
4	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H + ESV	User	NO	1.320	Enabled	26.5%	25.8%
5	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	User	NO	1.320	Enabled	13.0%	12.7%
6	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H + ESV	User	NO	1.320	Enabled	19.4%	20.6%
7	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L + ESV	User	NO	1.320	Enabled	31.6%	32.0%
8	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H + ESV	User	NO	1.524	Enabled	20.7%	24.4%
9	APN	N 45° 4' 58.04" W 83° 33' 22.43" 07 W	L + ESV	User	NO	1.406	Enabled	17.7%	20.8%
	Total Coverage							83.3%	83.1%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0									
1.4									
2.6		CRL	YQG	SVM	DXO	PSI			
9.0		CRL	YQG	SVM	DXO	PSI			
31.9		ASP	YQG	SVM	DXO	PSI	MBS		
47.0		ASP	FNT	MBS	DXO	PSI	YQG		
105.4		ASP	FNT	MBS	APN				
Inertial Drift Segments									
#	Start Location			End Location			Length [NM]		

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW03L(AER)	RW21R(DER)	
RW21R(DER)	GH03L:	
GH03L:	DCATS	CRL, DXO, PSI, SVM, and YQG
DCATS	FLOKA	CRL, DXO, PSI, SVM, and YQG
FLOKA	ZETTR	DXO, PSI, ASP, SVM, YQG, and MBS*
ZETTR	KARIT	DXO, PSI, MBS, FNT, ASP, and YQG*
KARIT	DUTEL	APN, MBS, FNT, and ASP

User Data					Return To Summary		
User Data Files							
#	File Name						
1	ZETTR_DKK_ESV.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

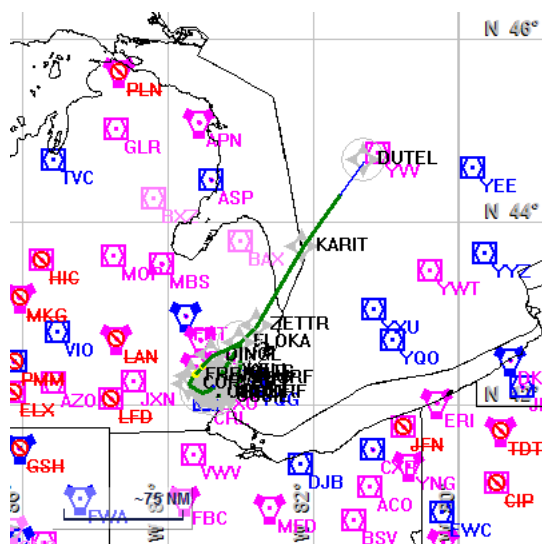
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H	625.1	116.10	ASP	Used
Restriction:		Bearing [True]: 293.0° to 13.0° Bearing [Mag]: 300.0° to 20.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
ESV:		Bearing [True]: 77.0° to 171.0° Bearing [Mag]: 84.0° to 178.0°			Arc Distance: Out to 106.0 NM Altitude: 8600.0 to 20000.0 ft		
ESV:		Bearing [True]: 86.0° to 114.0° Bearing [Mag]: 93.0° to 121.0°			Arc Distance: Out to 130.0 NM Altitude: 13100.0 to 20000.0 ft		
72	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H	771.5	116.90	FNT	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 223.0° to 303.0° Bearing [Mag]: 229.0° to 309.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 304.0° to 222.0° Bearing [Mag]: 310.0° to 228.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
ESV:		Bearing [True]: 44.0° to 62.0° Bearing [Mag]: 50.0° to 68.0°			Arc Distance: Out to 123.0 NM Altitude: 11900.0 to 20000.0 ft		
ESV:		Bearing [True]: 53.0° to 62.0° Bearing [Mag]: 59.0° to 68.0°			Arc Distance: Out to 131.0 NM Altitude: 13500.0 to 45000.0 ft		
ESV:		Bearing [True]: 76.0° to 87.0° Bearing [Mag]: 82.0° to 93.0°			Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L	662.5	112.90	MBS	Used
Restriction:		Bearing [True]: 189.0° to 197.0° Bearing [Mag]: 192.0° to 200.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 63.0° to 80.0° Bearing [Mag]: 66.0° to 83.0°			Arc Distance: Out to 114.0 NM Altitude: 11900.0 to 17000.0 ft		
ESV:		Bearing [True]: 68.0° to 138.0° Bearing [Mag]: 71.0° to 141.0°			Arc Distance: Out to 94.0 NM Altitude: 8800.0 to 15000.0 ft		
ESV:		Bearing [True]: 68.0° to 80.0° Bearing [Mag]: 71.0° to 83.0°			Arc Distance: Out to 121.0 NM Altitude: 13200.0 to 15000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Used
Restriction:		Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
75	APN	N 45° 4' 58.04" W 83° 33' 22.43" 07 W	L	675.7	108.80	APN	Used
Restriction:		Bearing [True]: 253.0° to 273.0° Bearing [Mag]: 260.0° to 280.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
ESV:		Bearing [True]: 101.0° to 141.0° Bearing [Mag]: 108.0° to 148.0°			Arc Distance: Out to 104.0 NM Altitude: 11900.0 to 14000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	BUF	N 42° 55' 44.39" W 78° 38' 46.83" 08 W	H	729.4	116.40	BUF	Not Used
Restriction:		Bearing [True]: 254.0° to 267.0° Bearing [Mag]: 262.0° to 275.0°			Distance: Beyond 0.0 NM Altitude: Below 2300.0 ft		
Restriction:		Bearing [True]: 268.0° to 27.0° Bearing [Mag]: 276.0° to 35.0°			Distance: Beyond 0.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 28.0° to 253.0° Bearing [Mag]: 36.0° to 261.0°			Distance: Beyond 0.0 NM Altitude: Below 11000.0 ft		
ESV:		Bearing [True]: 301.0° to 318.0° Bearing [Mag]: 309.0° to 326.0°			Arc Distance: Out to 134.0 NM Altitude: 14000.0 to 45000.0 ft		
ESV:		Bearing [True]: 258.0° to 324.0° Bearing [Mag]: 266.0° to 332.0°			Arc Distance: Out to 103.0 NM Altitude: 9900.0 to 20000.0 ft		
77	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 27.0° to 39.0° Bearing [Mag]: 33.0° to 45.0°			Arc Distance: Out to 126.0 NM Altitude: 12300.0 to 20000.0 ft		
ESV:		Bearing [True]: 27.0° to 67.0° Bearing [Mag]: 33.0° to 73.0°			Arc Distance: Out to 84.0 NM Altitude: 7000.0 to 20000.0 ft		
78	JHW	N 42° 11' 18.99" W 79° 7' 16.70" 07 W	H	1786.0	114.70	JHW	Not Used
ESV:		Bearing [True]: 294.0° to 359.0° Bearing [Mag]: 301.0° to 6.0°			Arc Distance: Out to 110.0 NM Altitude: 9900.0 to 18000.0 ft		
79	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
ESV:		Bearing [True]: 42.0° to 55.0° Bearing [Mag]: 45.0° to 58.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	ERI	N 42° 1' 2.63" W 80° 17' 33.71" 06 W	L	797.0	109.40	ERI	Not Used
Restriction:		Bearing [True]: 104.0° to 174.0° Bearing [Mag]: 110.0° to 180.0°			Distance: Beyond 25.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 244.0° to 268.0° Bearing [Mag]: 250.0° to 274.0°			Distance: Beyond 20.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 175.0° to 243.0° Bearing [Mag]: 181.0° to 249.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 289.0° to 309.0° Bearing [Mag]: 295.0° to 315.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 70.0° to 103.0° Bearing [Mag]: 76.0° to 109.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
ESV:		Bearing [True]: 281.0° to 74.0° Bearing [Mag]: 287.0° to 80.0°			Arc Distance: Out to 90.0 NM Altitude: 7000.0 to 20000.0 ft		
ESV:		Bearing [True]: 2.0° to 19.0° Bearing [Mag]: 8.0° to 25.0°			Arc Distance: Out to 101.0 NM Altitude: 19000.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
81	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
		ESV:	Bearing [True]: 339.0° to 359.0° Bearing [Mag]: 344.0° to 4.0°		Arc Distance: Out to 110.0 NM Altitude: 10000.0 to 20000.0 ft		
82	DKK	N 42° 29' 26.04" W 79° 16' 26.75" 07 W	H	680.0	116.20	DKK	Not Used
		Restriction:	Bearing [True]: 163.0° to 183.0° Bearing [Mag]: 170.0° to 190.0°		Distance: Beyond 17.0 NM Altitude: Below 7500.0 ft		
		Restriction:	Bearing [True]: 199.0° to 228.0° Bearing [Mag]: 206.0° to 235.0°		Distance: Beyond 17.0 NM Altitude: Below 4500.0 ft		
		Restriction:	Bearing [True]: 184.0° to 198.0° Bearing [Mag]: 191.0° to 205.0°		Distance: Beyond 17.0 NM Altitude: Below 5500.0 ft		
		Restriction:	Bearing [True]: 93.0° to 162.0° Bearing [Mag]: 100.0° to 169.0°		Distance: Beyond 17.0 NM Altitude: Below 4700.0 ft		
		Restriction:	Bearing [True]: 353.0° to 353.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		ESV:	Bearing [True]: 316.0° to 335.0° Bearing [Mag]: 323.0° to 342.0°		Arc Distance: Out to 133.0 NM Altitude: 13700.0 to 45000.0 ft		
		ESV:	Bearing [True]: 316.0° to 359.0° Bearing [Mag]: 323.0° to 6.0°		Arc Distance: Out to 80.0 NM Altitude: 10000.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: DTW ZETTR SID
Output File: KDTW ZETTR1 SID
RW03R BURPZ
20171113_1423
Procedure Name: ZETTR1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 11/13/2017 2:35:10 PM
Input File: [KDTW ZETTR1 SID RW03R
BURPZ 20170831_1032.txt](#)
Databases: AIRNAV Date: 10/27/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

Results Summary:

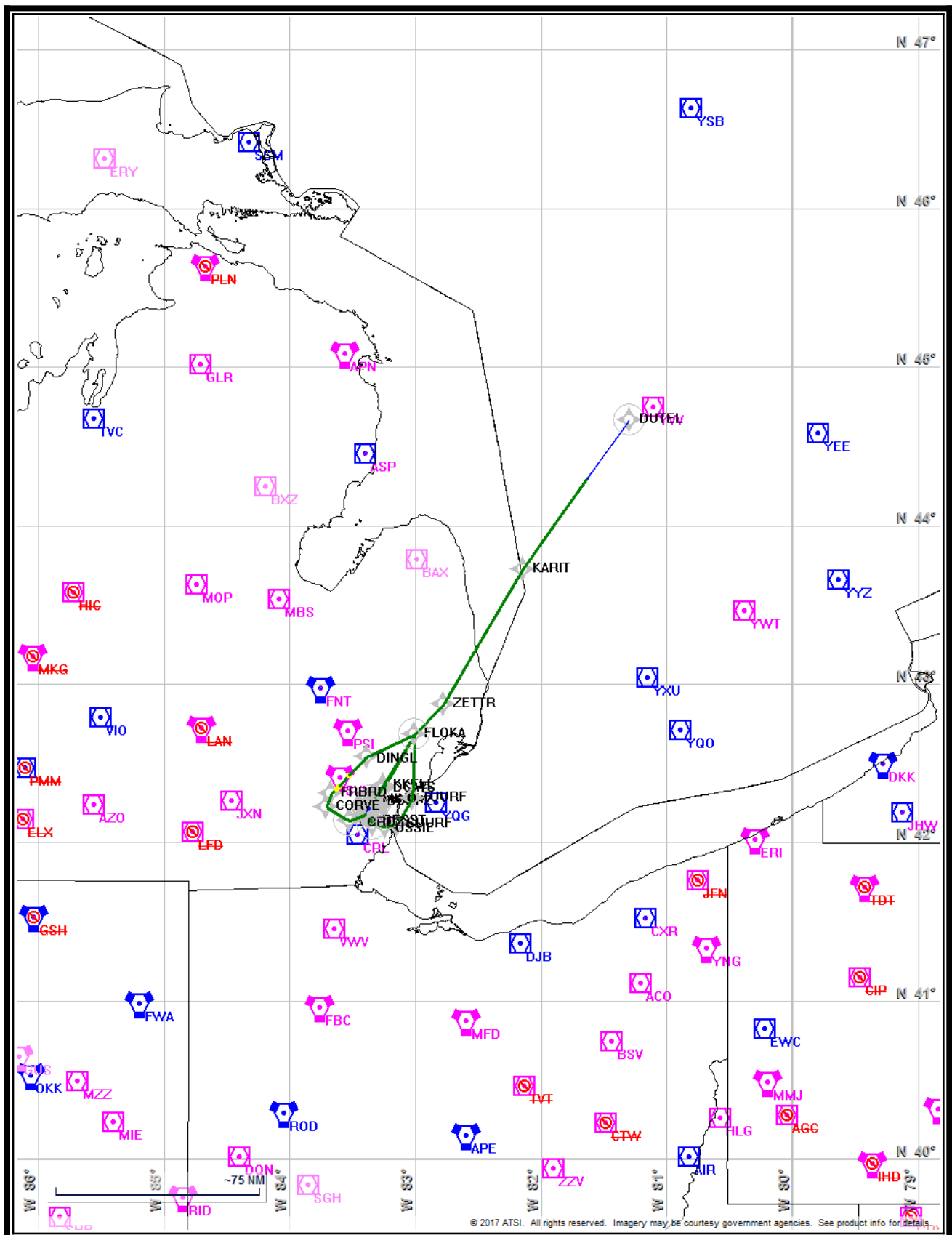
Flyability  Please Check **Flyability** Results

DME/DME  No Critical DMEs Exist

Radars 

Comms 

TERPS 



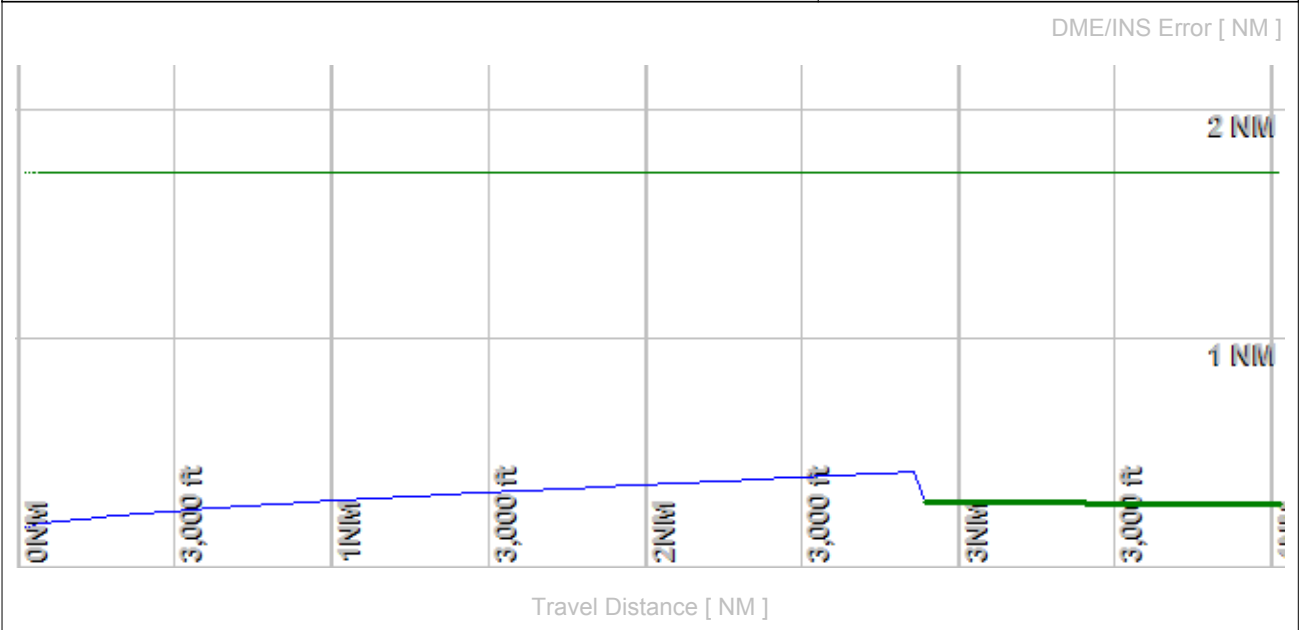
Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW03R(...	WP	N 42° 11' 44.21" W 83° 21' 6.49"	633.0	VNAV	0.0	Fly Over	TF
RW21L(...	WP	N 42° 13' 10.86" W 83° 20' 2.65"	667.1	VNAV	130.0	Fly Over	VA
GH03R:	WP	N 42° 14' 4.95" W 83° 19' 22.76"	1180.9	VNAV	145.0	Fly Over	DF
BURPZ	WP	N 42° 15' 17.69" W 83° 18' 29.10"	1457.3	VNAV	145.0	Fly Over	TF
Climb Gradient: 500.0 ft/NM up to 1146.0 ft MSL							
Climb Gradient: 200 ft/NM after next to last waypoint up to 18000.0 ft							

Flyability		Return To Summary
Settings:	Flight Type: Runway Departure	
	Selected Airport: KDTW	
	Aircraft Category: Cat D	
	Climb Gradient: 500.0 ft/NM up to 1146.0 ft MSL	
	Ground Speeds:	
	Departure: 120.0 Kts out to 10.0 NM	
	Table:	
	200.0 Kts up to 11000.0 ft	
	240.0 Kts up to 18000.0 ft	
	260.0 Kts up to 24000.0 ft	
340.0 Kts up to 99900.0 ft		
Wind Settings: <i>None assigned</i>		
Descent During a Turn: Allowed		
VNAV Mode: Flight Plan		
Flight Track comes into contact with terrain. Minimum AGL along route was -39.57 Ft.		
Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.		

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.165 NM INS Drift Rate: 8.000 NM/Hour Range Mode: OSV Co-Frequencies: Evaluated RNP Edges: Evaluated Min DME Range: 3.0 NM Allowed Gap Length: 4.0 NM DME Types: VOR/DME, VORTAC, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated Minimum MSL DMEs Avail: 1224 ft </p>
<p> Total Number of DMEs Used: 2 Maximum DME Error: 0.421 NM. No Critical DMEs were found. Available DMEs: SVM, CRL, YQG Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV Foreign DMEs within range: YEE, YQG, YQO, YVV, YWT, YXU, YYZ </p>	

DME/DME (Continued)

[Return To Summary](#)



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	0.480	Enabled	23.3%	29.0%
2	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	Database	NO	0.429	Enabled	23.3%	29.0%
	Total Coverage							23.3%	29.0%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0									
1.7									
2.7		CRL	SVM	YQG					
Inertial Drift Segments									
#	Start Location			End Location			Length [NM]		
1	N 42° 11' 44.21" W 83° 21' 6.49"			N 42° 14' 14.55" W 83° 19' 15.66"			2.9		
VOR: DET			Available from N 42° 11' 44.21" W 83° 21' 6.49" to N 42° 14' 14.55" W 83° 19' 15.66"						
VOR: CRL			Available from N 42° 11' 44.21" W 83° 21' 6.49" to N 42° 14' 14.55" W 83° 19' 15.66"						
VOR: YQG			Available from N 42° 11' 44.21" W 83° 21' 6.49" to N 42° 14' 14.55" W 83° 19' 15.66"						
VOR: DTW			Available from N 42° 11' 44.21" W 83° 21' 6.49" to N 42° 14' 14.55" W 83° 19' 15.66"						
VOR: YIP			Available from N 42° 11' 44.21" W 83° 21' 6.49" to N 42° 14' 14.55" W 83° 19' 15.66"						
VOR: SVM			Available from N 42° 11' 44.21" W 83° 21' 6.49" to N 42° 14' 14.55" W 83° 19' 15.66"						
VOR: PSI			Available from N 42° 11' 44.21" W 83° 21' 6.49" to N 42° 14' 14.55" W 83° 19' 15.66"						
VOR: DXO			Available from N 42° 11' 44.21" W 83° 21' 6.49" to N 42° 14' 14.55" W 83° 19' 15.66"						

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW03R(AER)	RW21L(DER)	
RW21L(DER)	GH03R:	
GH03R:	BURPZ	CRL, SVM, and YQG

User Data					Return To Summary		
User Data Files							
#	File Name						
1	ZETTR_DKK_ESV.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

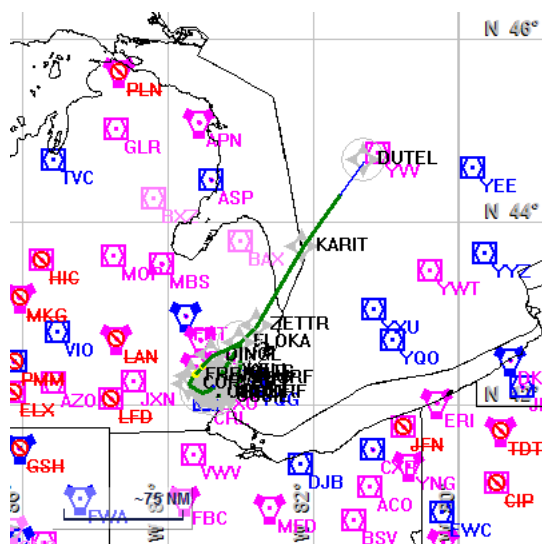
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H	625.1	116.10	ASP	Not Used
Restriction:		Bearing [True]: 293.0° to 13.0° Bearing [Mag]: 300.0° to 20.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
ESV:		Bearing [True]: 77.0° to 171.0° Bearing [Mag]: 84.0° to 178.0°			Arc Distance: Out to 106.0 NM Altitude: 8600.0 to 20000.0 ft		
ESV:		Bearing [True]: 86.0° to 114.0° Bearing [Mag]: 93.0° to 121.0°			Arc Distance: Out to 130.0 NM Altitude: 13100.0 to 20000.0 ft		
72	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H	771.5	116.90	FNT	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 223.0° to 303.0° Bearing [Mag]: 229.0° to 309.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 304.0° to 222.0° Bearing [Mag]: 310.0° to 228.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
ESV:		Bearing [True]: 44.0° to 62.0° Bearing [Mag]: 50.0° to 68.0°			Arc Distance: Out to 123.0 NM Altitude: 11900.0 to 20000.0 ft		
ESV:		Bearing [True]: 53.0° to 62.0° Bearing [Mag]: 59.0° to 68.0°			Arc Distance: Out to 131.0 NM Altitude: 13500.0 to 45000.0 ft		
ESV:		Bearing [True]: 76.0° to 87.0° Bearing [Mag]: 82.0° to 93.0°			Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L	662.5	112.90	MBS	Not Used
Restriction:		Bearing [True]: 189.0° to 197.0° Bearing [Mag]: 192.0° to 200.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 63.0° to 80.0° Bearing [Mag]: 66.0° to 83.0°			Arc Distance: Out to 114.0 NM Altitude: 11900.0 to 17000.0 ft		
ESV:		Bearing [True]: 68.0° to 138.0° Bearing [Mag]: 71.0° to 141.0°			Arc Distance: Out to 94.0 NM Altitude: 8800.0 to 15000.0 ft		
ESV:		Bearing [True]: 68.0° to 80.0° Bearing [Mag]: 71.0° to 83.0°			Arc Distance: Out to 121.0 NM Altitude: 13200.0 to 15000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Not Used
Restriction:		Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
75	APN	N 45° 4' 58.04" W 83° 33' 22.43" 07 W	L	675.7	108.80	APN	Not Used
Restriction:		Bearing [True]: 253.0° to 273.0° Bearing [Mag]: 260.0° to 280.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
ESV:		Bearing [True]: 101.0° to 141.0° Bearing [Mag]: 108.0° to 148.0°			Arc Distance: Out to 104.0 NM Altitude: 11900.0 to 14000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	BUF	N 42° 55' 44.39" W 78° 38' 46.83" 08 W	H	729.4	116.40	BUF	Not Used
Restriction:		Bearing [True]: 254.0° to 267.0° Bearing [Mag]: 262.0° to 275.0°			Distance: Beyond 0.0 NM Altitude: Below 2300.0 ft		
Restriction:		Bearing [True]: 268.0° to 27.0° Bearing [Mag]: 276.0° to 35.0°			Distance: Beyond 0.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 28.0° to 253.0° Bearing [Mag]: 36.0° to 261.0°			Distance: Beyond 0.0 NM Altitude: Below 11000.0 ft		
ESV:		Bearing [True]: 301.0° to 318.0° Bearing [Mag]: 309.0° to 326.0°			Arc Distance: Out to 134.0 NM Altitude: 14000.0 to 45000.0 ft		
ESV:		Bearing [True]: 258.0° to 324.0° Bearing [Mag]: 266.0° to 332.0°			Arc Distance: Out to 103.0 NM Altitude: 9900.0 to 20000.0 ft		
77	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 27.0° to 39.0° Bearing [Mag]: 33.0° to 45.0°			Arc Distance: Out to 126.0 NM Altitude: 12300.0 to 20000.0 ft		
ESV:		Bearing [True]: 27.0° to 67.0° Bearing [Mag]: 33.0° to 73.0°			Arc Distance: Out to 84.0 NM Altitude: 7000.0 to 20000.0 ft		
78	JHW	N 42° 11' 18.99" W 79° 7' 16.70" 07 W	H	1786.0	114.70	JHW	Not Used
ESV:		Bearing [True]: 294.0° to 359.0° Bearing [Mag]: 301.0° to 6.0°			Arc Distance: Out to 110.0 NM Altitude: 9900.0 to 18000.0 ft		
79	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
ESV:		Bearing [True]: 42.0° to 55.0° Bearing [Mag]: 45.0° to 58.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	ERI	N 42° 1' 2.63" W 80° 17' 33.71" 06 W	L	797.0	109.40	ERI	Not Used
Restriction:		Bearing [True]: 104.0° to 174.0° Bearing [Mag]: 110.0° to 180.0°			Distance: Beyond 25.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 244.0° to 268.0° Bearing [Mag]: 250.0° to 274.0°			Distance: Beyond 20.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 175.0° to 243.0° Bearing [Mag]: 181.0° to 249.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 289.0° to 309.0° Bearing [Mag]: 295.0° to 315.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 70.0° to 103.0° Bearing [Mag]: 76.0° to 109.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
ESV:		Bearing [True]: 281.0° to 74.0° Bearing [Mag]: 287.0° to 80.0°			Arc Distance: Out to 90.0 NM Altitude: 7000.0 to 20000.0 ft		
ESV:		Bearing [True]: 2.0° to 19.0° Bearing [Mag]: 8.0° to 25.0°			Arc Distance: Out to 101.0 NM Altitude: 19000.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
81	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
		ESV:	Bearing [True]: 339.0° to 359.0° Bearing [Mag]: 344.0° to 4.0°		Arc Distance: Out to 110.0 NM Altitude: 10000.0 to 20000.0 ft		
82	DKK	N 42° 29' 26.04" W 79° 16' 26.75" 07 W	H	680.0	116.20	DKK	Not Used
		Restriction:	Bearing [True]: 163.0° to 183.0° Bearing [Mag]: 170.0° to 190.0°		Distance: Beyond 17.0 NM Altitude: Below 7500.0 ft		
		Restriction:	Bearing [True]: 199.0° to 228.0° Bearing [Mag]: 206.0° to 235.0°		Distance: Beyond 17.0 NM Altitude: Below 4500.0 ft		
		Restriction:	Bearing [True]: 184.0° to 198.0° Bearing [Mag]: 191.0° to 205.0°		Distance: Beyond 17.0 NM Altitude: Below 5500.0 ft		
		Restriction:	Bearing [True]: 93.0° to 162.0° Bearing [Mag]: 100.0° to 169.0°		Distance: Beyond 17.0 NM Altitude: Below 4700.0 ft		
		Restriction:	Bearing [True]: 353.0° to 353.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		ESV:	Bearing [True]: 316.0° to 335.0° Bearing [Mag]: 323.0° to 342.0°		Arc Distance: Out to 133.0 NM Altitude: 13700.0 to 45000.0 ft		
		ESV:	Bearing [True]: 316.0° to 359.0° Bearing [Mag]: 323.0° to 6.0°		Arc Distance: Out to 80.0 NM Altitude: 10000.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: DTW ZETTR SID
Output File: KDTW ZETTR1 SID
RW04L MINDY
20171113_1423
Procedure Name: ZETTR1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 11/13/2017 2:38:23 PM
Input File: [KDTW ZETTR1 SID RW04L
MINDY 20170831_1034.txt](#)
Databases: AIRNAV Date: 10/27/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

Results Summary:

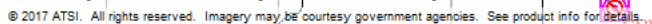
Flyability  **Please Check Flyability Results**

DME/DME  **No Critical DMEs Exist**

Radars 

Comms 

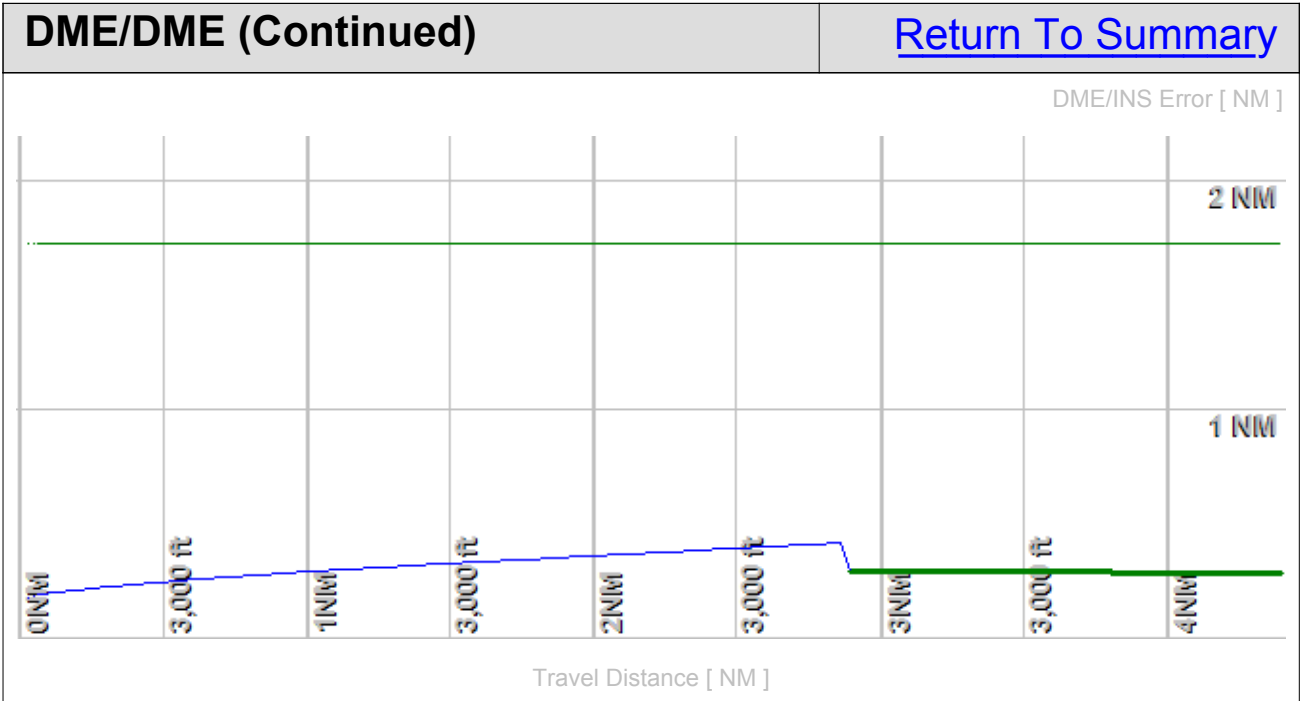
TERPS 



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW04L(...	WP	N 42° 12' 7.82" W 83° 23' 2.40"	645.2	VNAV	0.0	Fly Over	TF
RW22R(...	WP	N 42° 13' 34.48" W 83° 21' 58.61"	677.2	VNAV	130.0	Fly Over	VA
GH04L:	WP	N 42° 14' 29.01" W 83° 21' 18.45"	1195.0	VNAV	145.0	Fly Over	DF
MINDY	WP	N 42° 15' 59.47" W 83° 20' 11.78"	1538.7	VNAV	145.0	Fly Over	TF
Climb Gradient: 500.0 ft/NM up to 1160.0 ft MSL							
Climb Gradient: 200 ft/NM after next to last waypoint up to 18000.0 ft							

Flyability		Return To Summary
Settings:	Flight Type: Runway Departure Selected Airport: KDTW Aircraft Category: Cat D Climb Gradient: 500.0 ft/NM up to 1160.0 ft MSL Ground Speeds: Departure: 120.0 Kts out to 10.0 NM Table: 200.0 Kts up to 11000.0 ft 240.0 Kts up to 18000.0 ft 260.0 Kts up to 24000.0 ft 340.0 Kts up to 99900.0 ft Wind Settings: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	Flight Track comes into contact with terrain. Minimum AGL along route was -47.06 Ft. Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.	

DME/DME	Return To Summary
Settings:	RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.165 NM INS Drift Rate: 8.000 NM/Hour Range Mode: OSV Co-Frequencies: Evaluated RNP Edges: Evaluated Min DME Range: 3.0 NM Allowed Gap Length: 4.0 NM DME Types: VOR/DME, VORTAC, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated Minimum MSL DMEs Avail: 1236 ft
Total Number of DMEs Used: 2 Maximum DME Error: 0.421 NM. No Critical DMEs were found. Available DMEs: SVM, CRL, YQG Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV Foreign DMEs within range: YEE, YQG, YQO, YVV, YWT, YXU, YYZ	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	0.493	Enabled	28.6%	34.9%
2	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	Database	NO	0.429	Enabled	28.6%	34.9%
	Total Coverage							28.6%	34.9%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0									
1.7									
2.7		CRL	SVM	YQG					
Inertial Drift Segments									
#	Start Location			End Location			Length [NM]		
1	N 42° 12' 7.82" W 83° 23' 2.40"			N 42° 14' 38.21" W 83° 21' 11.64"			2.9		
VOR: DET				Available from N 42° 12' 7.82" W 83° 23' 2.40" to N 42° 14' 38.21" W 83° 21' 11.64"					
VOR: CRL				Available from N 42° 12' 7.82" W 83° 23' 2.40" to N 42° 14' 38.21" W 83° 21' 11.64"					
VOR: YQG				Available from N 42° 12' 7.82" W 83° 23' 2.40" to N 42° 14' 38.21" W 83° 21' 11.64"					
VOR: DTW				Available from N 42° 12' 7.82" W 83° 23' 2.40" to N 42° 14' 38.21" W 83° 21' 11.64"					
VOR: YIP				Available from N 42° 12' 7.82" W 83° 23' 2.40" to N 42° 14' 38.21" W 83° 21' 11.64"					
VOR: SVM				Available from N 42° 12' 7.82" W 83° 23' 2.40" to N 42° 14' 38.21" W 83° 21' 11.64"					
VOR: PSI				Available from N 42° 12' 7.82" W 83° 23' 2.40" to N 42° 14' 38.21" W 83° 21' 11.64"					
VOR: DXO				Available from N 42° 12' 7.82" W 83° 23' 2.40" to N 42° 14' 38.21" W 83° 21' 11.64"					

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW04L(AER)	RW22R(DER)	
RW22R(DER)	GH04L:	
GH04L:	MINDY	CRL, SVM, and YQG

User Data					Return To Summary		
User Data Files							
#	File Name						
1	ZETTR_DKK_ESV.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

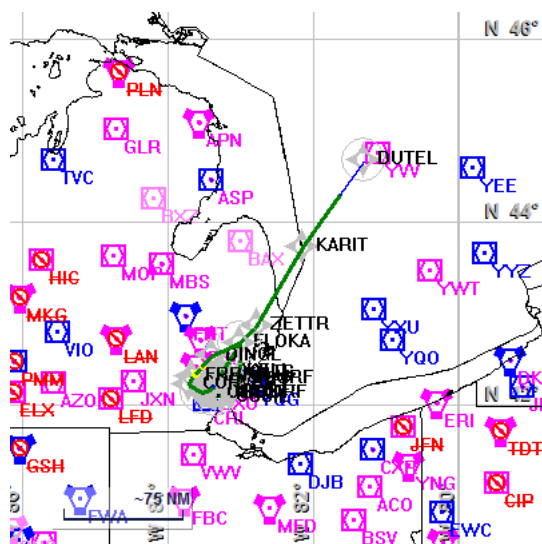
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H	625.1	116.10	ASP	Not Used
Restriction:		Bearing [True]: 293.0° to 13.0° Bearing [Mag]: 300.0° to 20.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
ESV:		Bearing [True]: 77.0° to 171.0° Bearing [Mag]: 84.0° to 178.0°			Arc Distance: Out to 106.0 NM Altitude: 8600.0 to 20000.0 ft		
ESV:		Bearing [True]: 86.0° to 114.0° Bearing [Mag]: 93.0° to 121.0°			Arc Distance: Out to 130.0 NM Altitude: 13100.0 to 20000.0 ft		
72	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H	771.5	116.90	FNT	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 223.0° to 303.0° Bearing [Mag]: 229.0° to 309.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 304.0° to 222.0° Bearing [Mag]: 310.0° to 228.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
ESV:		Bearing [True]: 44.0° to 62.0° Bearing [Mag]: 50.0° to 68.0°			Arc Distance: Out to 123.0 NM Altitude: 11900.0 to 20000.0 ft		
ESV:		Bearing [True]: 53.0° to 62.0° Bearing [Mag]: 59.0° to 68.0°			Arc Distance: Out to 131.0 NM Altitude: 13500.0 to 45000.0 ft		
ESV:		Bearing [True]: 76.0° to 87.0° Bearing [Mag]: 82.0° to 93.0°			Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L	662.5	112.90	MBS	Not Used
Restriction:		Bearing [True]: 189.0° to 197.0° Bearing [Mag]: 192.0° to 200.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 63.0° to 80.0° Bearing [Mag]: 66.0° to 83.0°			Arc Distance: Out to 114.0 NM Altitude: 11900.0 to 17000.0 ft		
ESV:		Bearing [True]: 68.0° to 138.0° Bearing [Mag]: 71.0° to 141.0°			Arc Distance: Out to 94.0 NM Altitude: 8800.0 to 15000.0 ft		
ESV:		Bearing [True]: 68.0° to 80.0° Bearing [Mag]: 71.0° to 83.0°			Arc Distance: Out to 121.0 NM Altitude: 13200.0 to 15000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Not Used
Restriction:		Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
75	APN	N 45° 4' 58.04" W 83° 33' 22.43" 07 W	L	675.7	108.80	APN	Not Used
Restriction:		Bearing [True]: 253.0° to 273.0° Bearing [Mag]: 260.0° to 280.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
ESV:		Bearing [True]: 101.0° to 141.0° Bearing [Mag]: 108.0° to 148.0°			Arc Distance: Out to 104.0 NM Altitude: 11900.0 to 14000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	BUF	N 42° 55' 44.39" W 78° 38' 46.83" 08 W	H	729.4	116.40	BUF	Not Used
Restriction:		Bearing [True]: 254.0° to 267.0° Bearing [Mag]: 262.0° to 275.0°			Distance: Beyond 0.0 NM Altitude: Below 2300.0 ft		
Restriction:		Bearing [True]: 268.0° to 27.0° Bearing [Mag]: 276.0° to 35.0°			Distance: Beyond 0.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 28.0° to 253.0° Bearing [Mag]: 36.0° to 261.0°			Distance: Beyond 0.0 NM Altitude: Below 11000.0 ft		
ESV:		Bearing [True]: 301.0° to 318.0° Bearing [Mag]: 309.0° to 326.0°			Arc Distance: Out to 134.0 NM Altitude: 14000.0 to 45000.0 ft		
ESV:		Bearing [True]: 258.0° to 324.0° Bearing [Mag]: 266.0° to 332.0°			Arc Distance: Out to 103.0 NM Altitude: 9900.0 to 20000.0 ft		
77	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 27.0° to 39.0° Bearing [Mag]: 33.0° to 45.0°			Arc Distance: Out to 126.0 NM Altitude: 12300.0 to 20000.0 ft		
ESV:		Bearing [True]: 27.0° to 67.0° Bearing [Mag]: 33.0° to 73.0°			Arc Distance: Out to 84.0 NM Altitude: 7000.0 to 20000.0 ft		
78	JHW	N 42° 11' 18.99" W 79° 7' 16.70" 07 W	H	1786.0	114.70	JHW	Not Used
ESV:		Bearing [True]: 294.0° to 359.0° Bearing [Mag]: 301.0° to 6.0°			Arc Distance: Out to 110.0 NM Altitude: 9900.0 to 18000.0 ft		
79	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
ESV:		Bearing [True]: 42.0° to 55.0° Bearing [Mag]: 45.0° to 58.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	ERI	N 42° 1' 2.63" W 80° 17' 33.71" 06 W	L	797.0	109.40	ERI	Not Used
Restriction:		Bearing [True]: 104.0° to 174.0° Bearing [Mag]: 110.0° to 180.0°			Distance: Beyond 25.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 244.0° to 268.0° Bearing [Mag]: 250.0° to 274.0°			Distance: Beyond 20.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 175.0° to 243.0° Bearing [Mag]: 181.0° to 249.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 289.0° to 309.0° Bearing [Mag]: 295.0° to 315.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 70.0° to 103.0° Bearing [Mag]: 76.0° to 109.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
ESV:		Bearing [True]: 281.0° to 74.0° Bearing [Mag]: 287.0° to 80.0°			Arc Distance: Out to 90.0 NM Altitude: 7000.0 to 20000.0 ft		
ESV:		Bearing [True]: 2.0° to 19.0° Bearing [Mag]: 8.0° to 25.0°			Arc Distance: Out to 101.0 NM Altitude: 19000.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
81	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
		ESV:	Bearing [True]: 339.0° to 359.0° Bearing [Mag]: 344.0° to 4.0°		Arc Distance: Out to 110.0 NM Altitude: 10000.0 to 20000.0 ft		
82	DKK	N 42° 29' 26.04" W 79° 16' 26.75" 07 W	H	680.0	116.20	DKK	Not Used
		Restriction:	Bearing [True]: 163.0° to 183.0° Bearing [Mag]: 170.0° to 190.0°		Distance: Beyond 17.0 NM Altitude: Below 7500.0 ft		
		Restriction:	Bearing [True]: 199.0° to 228.0° Bearing [Mag]: 206.0° to 235.0°		Distance: Beyond 17.0 NM Altitude: Below 4500.0 ft		
		Restriction:	Bearing [True]: 184.0° to 198.0° Bearing [Mag]: 191.0° to 205.0°		Distance: Beyond 17.0 NM Altitude: Below 5500.0 ft		
		Restriction:	Bearing [True]: 93.0° to 162.0° Bearing [Mag]: 100.0° to 169.0°		Distance: Beyond 17.0 NM Altitude: Below 4700.0 ft		
		Restriction:	Bearing [True]: 353.0° to 353.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		ESV:	Bearing [True]: 316.0° to 335.0° Bearing [Mag]: 323.0° to 342.0°		Arc Distance: Out to 133.0 NM Altitude: 13700.0 to 45000.0 ft		
		ESV:	Bearing [True]: 316.0° to 359.0° Bearing [Mag]: 323.0° to 6.0°		Arc Distance: Out to 80.0 NM Altitude: 10000.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: DTW ZETTR SID
Output File: KDTW ZETTR1 SID
RW04R FLOKA
20171113_1423
Procedure Name: ZETTR1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 11/13/2017 2:43:11 PM
Input File: [KDTW ZETTR1 SID RW04R
FLOKA 20170831_1038.txt](#)
Databases: AIRNAV Date: 10/27/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

Results Summary:

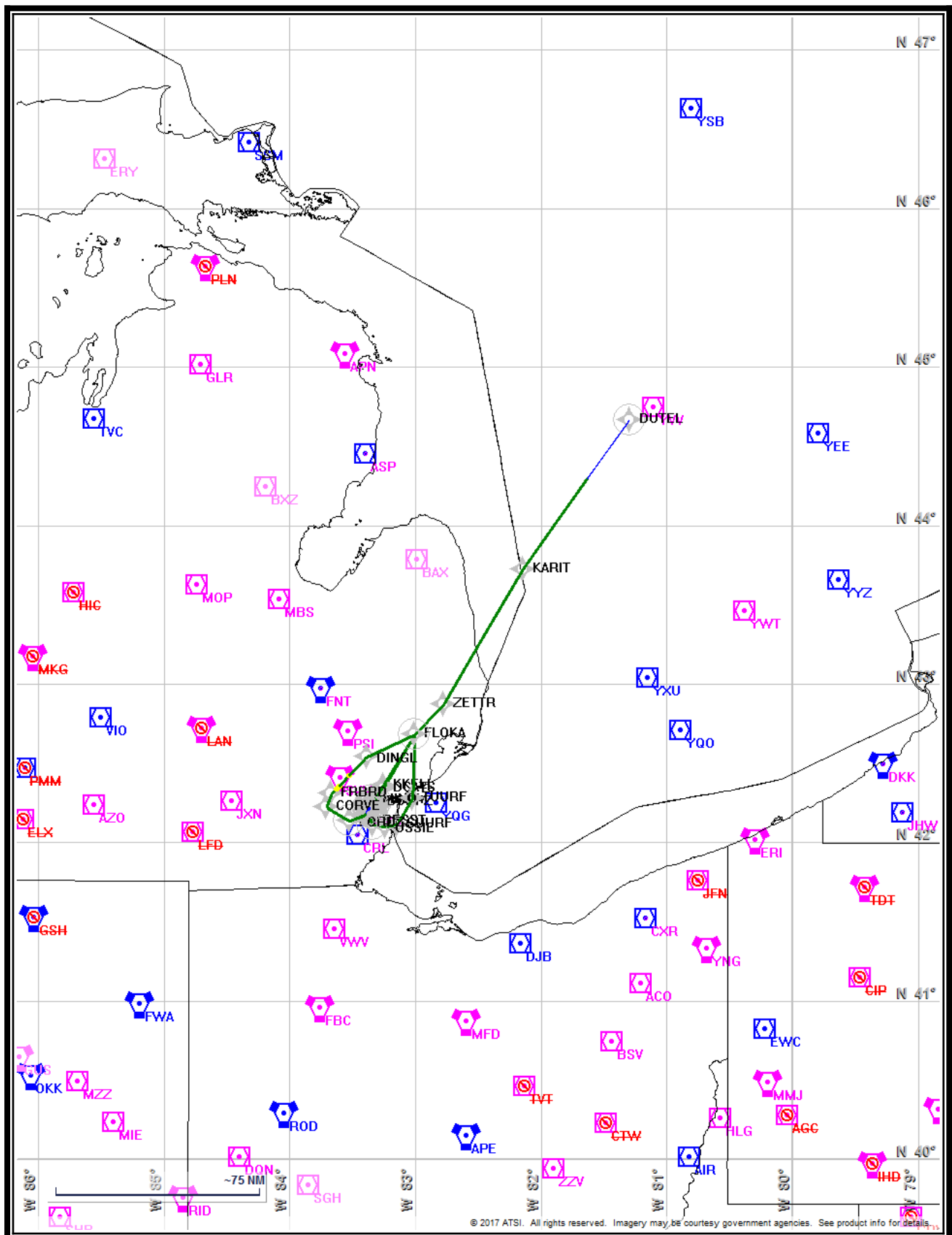
Flyability  **Please Check Flyability Results**

DME/DME  **No Critical DMEs Exist**

Radars 

Comms 

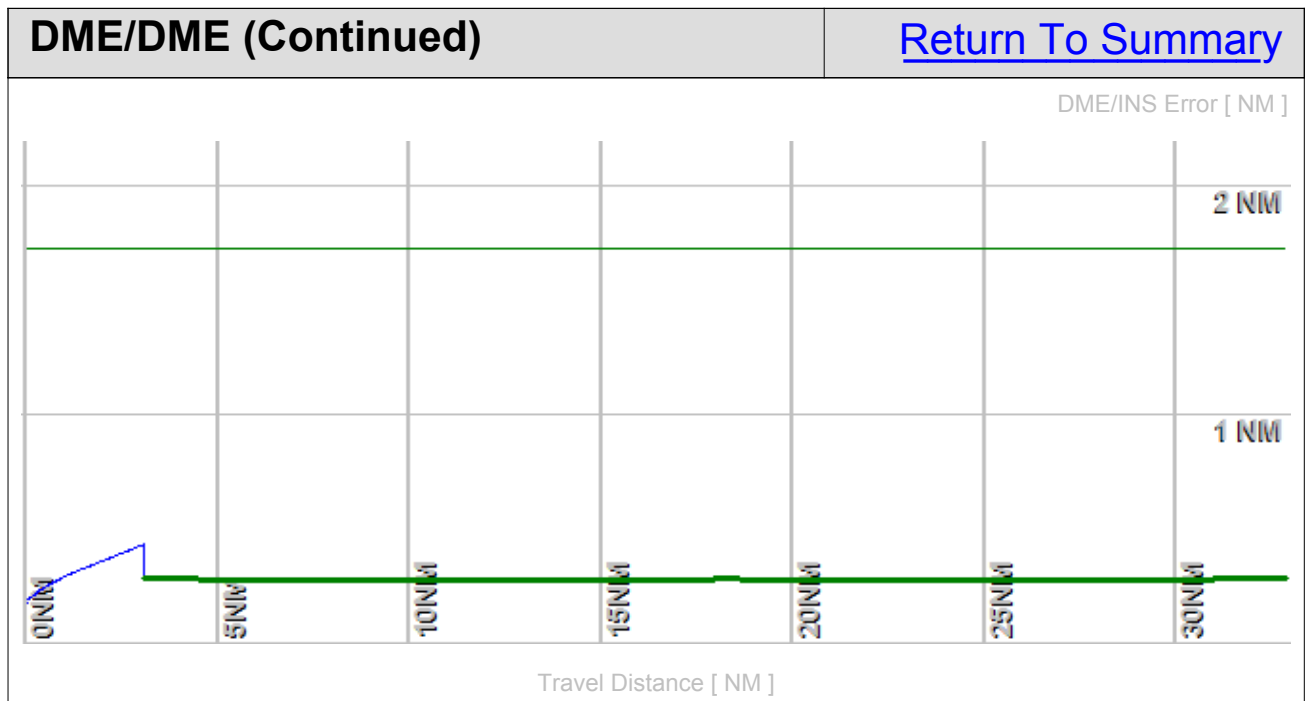
TERPS 



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW04R(...	WP	N 42° 12' 12.78" W 83° 22' 13.32"	637.2	VNAV	0.0	Fly Over	TF
RW22L(...	WP	N 42° 13' 52.36" W 83° 20' 59.97"	670.8	VNAV	130.0	Fly Over	VA
GH04R:	WP	N 42° 14' 47.55" W 83° 20' 19.28"	1195.0	VNAV	145.0	Fly Over	DF
KKELL	WP	N 42° 21' 31.89" W 83° 15' 20.25"	2732.0	VNAV	145.0	Fly By	TF
FLOKA	WP	N 42° 40' 49.29" W 83° 0' 13.05"	4000.0	VNAV	145.0	Fly Over	TF
Climb Gradient: 500.0 ft/NM up to 1160.0 ft MSL							

Flyability	Return To Summary
Settings:	<p>Flight Type: Runway Departure</p> <p>Selected Airport: KDTW</p> <p>Aircraft Category: Cat D</p> <p>Climb Gradient: 500.0 ft/NM up to 1160.0 ft MSL</p> <p>Ground Speeds:</p> <p>Departure: 120.0 Kts out to 10.0 NM</p> <p>Table:</p> <p>200.0 Kts up to 11000.0 ft</p> <p>240.0 Kts up to 18000.0 ft</p> <p>260.0 Kts up to 24000.0 ft</p> <p>340.0 Kts up to 99900.0 ft</p> <p>Wind Settings: <i>None assigned</i></p> <p>Descent During a Turn: Allowed</p> <p>VNAV Mode: Flight Plan</p>
<p>Flight Track comes into contact with terrain. Minimum AGL along route was -55.06 Ft.</p> <p>Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.</p>	

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.165 NM INS Drift Rate: 8.000 NM/Hour Range Mode: OSV Co-Frequencies: Evaluated RNP Edges: Evaluated Min DME Range: 3.0 NM Allowed Gap Length: 4.0 NM DME Types: VOR/DME, VORTAC, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated Minimum MSL DMEs Avail: 1225 ft </p>
<p> Total Number of DMEs Used: 5 Maximum DME Error: 0.434 NM. No Critical DMEs were found. Available DMEs: SVM, CRL, YQG, DXO, PSI Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV Foreign DMEs within range: YEE, YQG, YQO, YVV, YWT, YXU, YYZ </p>	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	0.533	Enabled	39.8%	35.9%
2	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	Database	NO	0.443	Enabled	41.4%	41.5%
3	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H + ESV	User	NO	0.434	Enabled	27.8%	32.7%
4	YQG	N 42° 14' 59.00" W 82° 49' 44.20" 06 W	H	Database	NO	0.434	Enabled	42.9%	49.0%
5	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	User	NO	0.434	Enabled	17.0%	22.3%
	Total Coverage							84.4%	90.7%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0									
1.9									
3.0		CRL	SVM	YQG	DXO	PSI			
10.6		CRL	SVM	YQG	DXO	PSI			
Inertial Drift Segments									
#	Start Location			End Location				Length [NM]	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW04R(AER)	RW22L(DER)	
RW22L(DER)	GH04R:	
GH04R:	KKELL	CRL, DXO, PSI, SVM, and YQG
KKELL	FLOKA	CRL, DXO, PSI, SVM, and YQG

User Data					Return To Summary		
User Data Files							
#	File Name						
1	ZETTR_DKK_ESV.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H	625.1	116.10	ASP	Not Used
Restriction:		Bearing [True]: 293.0° to 13.0° Bearing [Mag]: 300.0° to 20.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
ESV:		Bearing [True]: 77.0° to 171.0° Bearing [Mag]: 84.0° to 178.0°			Arc Distance: Out to 106.0 NM Altitude: 8600.0 to 20000.0 ft		
ESV:		Bearing [True]: 86.0° to 114.0° Bearing [Mag]: 93.0° to 121.0°			Arc Distance: Out to 130.0 NM Altitude: 13100.0 to 20000.0 ft		
72	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H	771.5	116.90	FNT	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 223.0° to 303.0° Bearing [Mag]: 229.0° to 309.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 304.0° to 222.0° Bearing [Mag]: 310.0° to 228.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
ESV:		Bearing [True]: 44.0° to 62.0° Bearing [Mag]: 50.0° to 68.0°			Arc Distance: Out to 123.0 NM Altitude: 11900.0 to 20000.0 ft		
ESV:		Bearing [True]: 53.0° to 62.0° Bearing [Mag]: 59.0° to 68.0°			Arc Distance: Out to 131.0 NM Altitude: 13500.0 to 45000.0 ft		
ESV:		Bearing [True]: 76.0° to 87.0° Bearing [Mag]: 82.0° to 93.0°			Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L	662.5	112.90	MBS	Not Used
Restriction:		Bearing [True]: 189.0° to 197.0° Bearing [Mag]: 192.0° to 200.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 63.0° to 80.0° Bearing [Mag]: 66.0° to 83.0°			Arc Distance: Out to 114.0 NM Altitude: 11900.0 to 17000.0 ft		
ESV:		Bearing [True]: 68.0° to 138.0° Bearing [Mag]: 71.0° to 141.0°			Arc Distance: Out to 94.0 NM Altitude: 8800.0 to 15000.0 ft		
ESV:		Bearing [True]: 68.0° to 80.0° Bearing [Mag]: 71.0° to 83.0°			Arc Distance: Out to 121.0 NM Altitude: 13200.0 to 15000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Used
Restriction:		Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
75	APN	N 45° 4' 58.04" W 83° 33' 22.43" 07 W	L	675.7	108.80	APN	Not Used
Restriction:		Bearing [True]: 253.0° to 273.0° Bearing [Mag]: 260.0° to 280.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
ESV:		Bearing [True]: 101.0° to 141.0° Bearing [Mag]: 108.0° to 148.0°			Arc Distance: Out to 104.0 NM Altitude: 11900.0 to 14000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	BUF	N 42° 55' 44.39" W 78° 38' 46.83" 08 W	H	729.4	116.40	BUF	Not Used
Restriction:		Bearing [True]: 254.0° to 267.0° Bearing [Mag]: 262.0° to 275.0°			Distance: Beyond 0.0 NM Altitude: Below 2300.0 ft		
Restriction:		Bearing [True]: 268.0° to 27.0° Bearing [Mag]: 276.0° to 35.0°			Distance: Beyond 0.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 28.0° to 253.0° Bearing [Mag]: 36.0° to 261.0°			Distance: Beyond 0.0 NM Altitude: Below 11000.0 ft		
ESV:		Bearing [True]: 301.0° to 318.0° Bearing [Mag]: 309.0° to 326.0°			Arc Distance: Out to 134.0 NM Altitude: 14000.0 to 45000.0 ft		
ESV:		Bearing [True]: 258.0° to 324.0° Bearing [Mag]: 266.0° to 332.0°			Arc Distance: Out to 103.0 NM Altitude: 9900.0 to 20000.0 ft		
77	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 27.0° to 39.0° Bearing [Mag]: 33.0° to 45.0°			Arc Distance: Out to 126.0 NM Altitude: 12300.0 to 20000.0 ft		
ESV:		Bearing [True]: 27.0° to 67.0° Bearing [Mag]: 33.0° to 73.0°			Arc Distance: Out to 84.0 NM Altitude: 7000.0 to 20000.0 ft		
78	JHW	N 42° 11' 18.99" W 79° 7' 16.70" 07 W	H	1786.0	114.70	JHW	Not Used
ESV:		Bearing [True]: 294.0° to 359.0° Bearing [Mag]: 301.0° to 6.0°			Arc Distance: Out to 110.0 NM Altitude: 9900.0 to 18000.0 ft		
79	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
ESV:		Bearing [True]: 42.0° to 55.0° Bearing [Mag]: 45.0° to 58.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	ERI	N 42° 1' 2.63" W 80° 17' 33.71" 06 W	L	797.0	109.40	ERI	Not Used
Restriction:		Bearing [True]: 104.0° to 174.0° Bearing [Mag]: 110.0° to 180.0°			Distance: Beyond 25.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 244.0° to 268.0° Bearing [Mag]: 250.0° to 274.0°			Distance: Beyond 20.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 175.0° to 243.0° Bearing [Mag]: 181.0° to 249.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 289.0° to 309.0° Bearing [Mag]: 295.0° to 315.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 70.0° to 103.0° Bearing [Mag]: 76.0° to 109.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
ESV:		Bearing [True]: 281.0° to 74.0° Bearing [Mag]: 287.0° to 80.0°			Arc Distance: Out to 90.0 NM Altitude: 7000.0 to 20000.0 ft		
ESV:		Bearing [True]: 2.0° to 19.0° Bearing [Mag]: 8.0° to 25.0°			Arc Distance: Out to 101.0 NM Altitude: 19000.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
81	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
		ESV:	Bearing [True]: 339.0° to 359.0° Bearing [Mag]: 344.0° to 4.0°		Arc Distance: Out to 110.0 NM Altitude: 10000.0 to 20000.0 ft		
82	DKK	N 42° 29' 26.04" W 79° 16' 26.75" 07 W	H	680.0	116.20	DKK	Not Used
		Restriction:	Bearing [True]: 163.0° to 183.0° Bearing [Mag]: 170.0° to 190.0°		Distance: Beyond 17.0 NM Altitude: Below 7500.0 ft		
		Restriction:	Bearing [True]: 199.0° to 228.0° Bearing [Mag]: 206.0° to 235.0°		Distance: Beyond 17.0 NM Altitude: Below 4500.0 ft		
		Restriction:	Bearing [True]: 184.0° to 198.0° Bearing [Mag]: 191.0° to 205.0°		Distance: Beyond 17.0 NM Altitude: Below 5500.0 ft		
		Restriction:	Bearing [True]: 93.0° to 162.0° Bearing [Mag]: 100.0° to 169.0°		Distance: Beyond 17.0 NM Altitude: Below 4700.0 ft		
		Restriction:	Bearing [True]: 353.0° to 353.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		ESV:	Bearing [True]: 316.0° to 335.0° Bearing [Mag]: 323.0° to 342.0°		Arc Distance: Out to 133.0 NM Altitude: 13700.0 to 45000.0 ft		
		ESV:	Bearing [True]: 316.0° to 359.0° Bearing [Mag]: 323.0° to 6.0°		Arc Distance: Out to 80.0 NM Altitude: 10000.0 to 16000.0 ft		

Databases: AIRNAV Date: 10/27/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

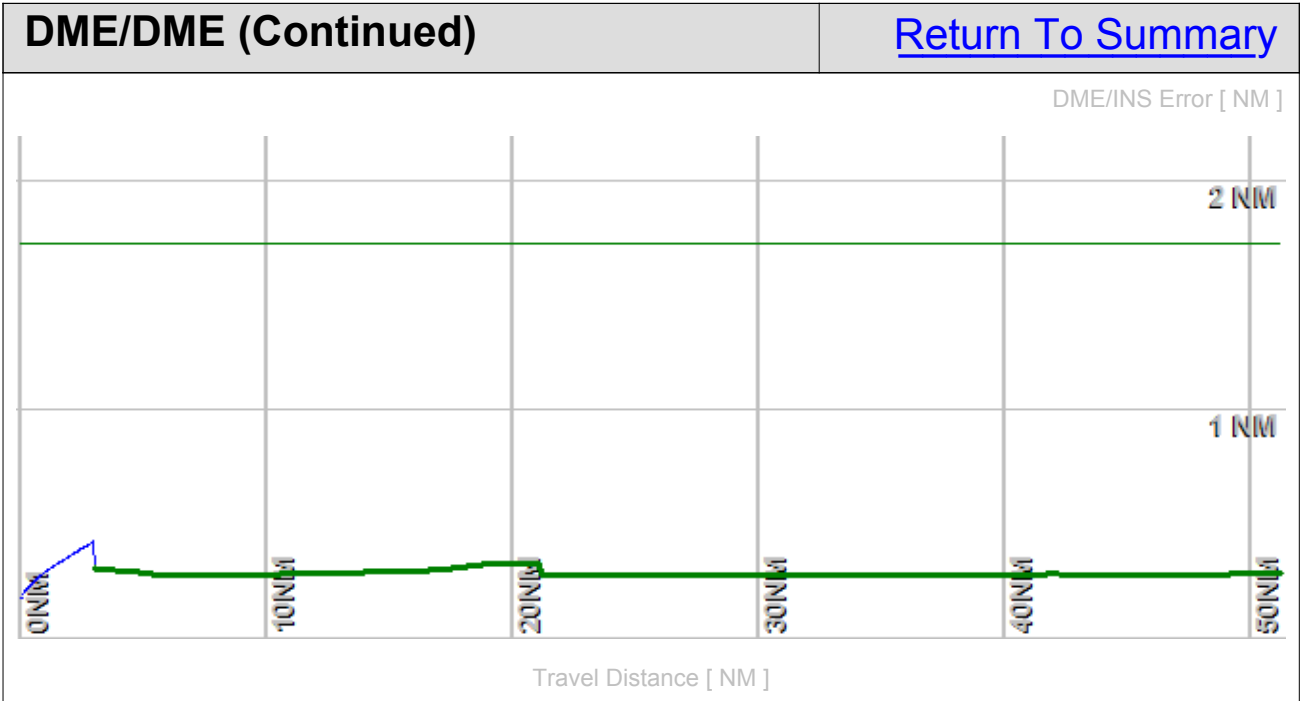
TERPS ?



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW21L(...	WP	N 42° 13' 10.86" W 83° 20' 2.65"	632.1	VNAV	0.0	Fly By	TF
RW03R(...	WP	N 42° 11' 44.21" W 83° 21' 6.49"	668.0	VNAV	130.0	Fly Over	VI
GH21L:	WP	N 42° 9' 59.02" W 83° 22' 23.92"	1666.8	VNAV	145.0	Fly By	CF - 154.3°
BESST	WP	N 42° 6' 50.61" W 83° 20' 22.22"	2363.4	VNAV	145.0	Fly By	TF
USSIE	WP	N 42° 5' 56.34" W 83° 14' 27.74"	3261.3	VNAV	145.0	Fly By	TF
SUURF	WP	N 42° 6' 57.51" W 83° 8' 37.76"	4000.0	VNAV	145.0	Fly By	TF
TUURF	WP	N 42° 16' 44.40" W 83° 1' 13.28"	4000.0	VNAV	145.0	Fly By	TF
FLOKA	WP	N 42° 40' 49.29" W 83° 0' 13.05"	4000.0	VNAV	145.0	Fly Over	TF
Climb Gradient: Table: 500.0 ft/NM up to 1100.0 ft MSL 200.0 ft/NM up to 10000.0 ft MSL							

Flyability		Return To Summary
Settings:	Flight Type: Runway Departure Selected Airport: KDTW Aircraft Category: Cat D Climb Gradient: Table: 500.0 ft/NM up to 1100.0 ft MSL 200.0 ft/NM up to 10000.0 ft MSL Ground Speeds: Departure: 120.0 Kts out to 10.0 NM Table: 200.0 Kts up to 11000.0 ft 240.0 Kts up to 18000.0 ft 260.0 Kts up to 24000.0 ft 340.0 Kts up to 99900.0 ft Wind Settings: None assigned Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	Aircraft ALTITUDE at Fly-By WP GH21L: too low. Aircraft ALTITUDE at Fly-By WP BESST too low. Aircraft ALTITUDE at Fly-By WP USSIE too low. Aircraft ALTITUDE at Fly-By WP SUURF too low. Aircraft ALTITUDE at Fly-By WP TUURF too high. Aircraft ALTITUDE at Fly-Over WP FLOKA too high. Flight Track comes into contact with terrain. Minimum AGL along route was -53.64 Ft. Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.	

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.165 NM INS Drift Rate: 8.000 NM/Hour Range Mode: OSV Co-Frequencies: Evaluated RNP Edges: Evaluated Min DME Range: 3.0 NM Allowed Gap Length: 4.0 NM DME Types: VOR/DME, VORTAC, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated Minimum MSL DMEs Avail: 1195 ft </p>
<p>Total Number of DMEs Used: 5</p> <p>Maximum DME Error: 0.427 NM.</p> <p>No Critical DMEs were found.</p> <p>Available DMEs: CRL, SVM, YQG, DXO, PSI</p> <p>Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV</p> <p>Foreign DMEs within range: YEE, YQG, YQO, YVV, YWT, YXU, YYZ</p> <p>Co-Frequency Interference: 108.2(BAX, FBC)</p>	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	0.429	Enabled	39.0%	44.4%
2	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	Database	NO	0.506	Enabled	38.6%	41.4%
3	YQG	N 42° 14' 59.00" W 82° 49' 44.20" 06 W	H	Database	NO	0.427	Enabled	53.4%	53.7%
4	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H + ESV	User	NO	0.427	Enabled	20.2%	16.3%
5	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	User	NO	0.427	Enabled	27.4%	32.8%
	Total Coverage							89.3%	94.2%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0									
1.7		CRL	SVM	YQG					
3.4		CRL	SVM	YQG	DXO				
6.8		CRL	SVM	YQG	DXO				
11.0		CRL	SVM	YQG	DXO				
15.3		CRL	SVM	YQG	PSI	DXO			
26.5		CRL	SVM	YQG	PSI	DXO			
Inertial Drift Segments									
#	Start Location			End Location				Length [NM]	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW21L(AER)	RW03R(DER)	
RW03R(DER)	GH21L:	CRL, SVM, and YQG
GH21L:	BESST	CRL, DXO, SVM, and YQG
BESST	USSIE	CRL, DXO, SVM, and YQG
USSIE	SUURF	CRL, DXO, SVM, and YQG
SUURF	TUURF	CRL, DXO, PSI, SVM, and YQG
TUURF	FLOKA	CRL, DXO, PSI, SVM, and YQG

User Data					Return To Summary		
User Data Files							
#	File Name						
1	ZETTR_DKK_ESV.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

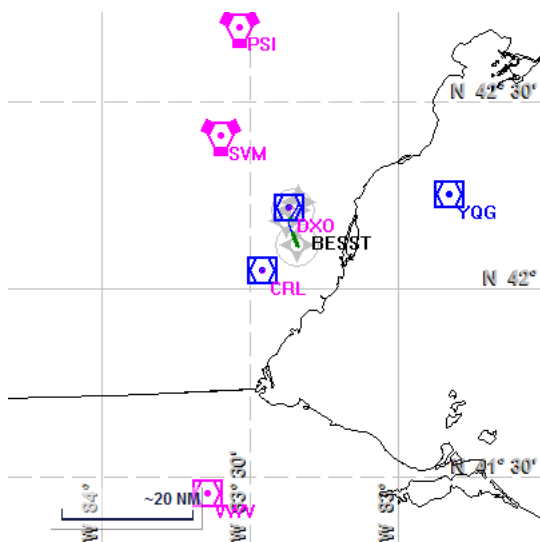
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H	625.1	116.10	ASP	Not Used
Restriction:		Bearing [True]: 293.0° to 13.0° Bearing [Mag]: 300.0° to 20.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
ESV:		Bearing [True]: 77.0° to 171.0° Bearing [Mag]: 84.0° to 178.0°			Arc Distance: Out to 106.0 NM Altitude: 8600.0 to 20000.0 ft		
ESV:		Bearing [True]: 86.0° to 114.0° Bearing [Mag]: 93.0° to 121.0°			Arc Distance: Out to 130.0 NM Altitude: 13100.0 to 20000.0 ft		
72	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H	771.5	116.90	FNT	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 223.0° to 303.0° Bearing [Mag]: 229.0° to 309.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 304.0° to 222.0° Bearing [Mag]: 310.0° to 228.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
ESV:		Bearing [True]: 44.0° to 62.0° Bearing [Mag]: 50.0° to 68.0°			Arc Distance: Out to 123.0 NM Altitude: 11900.0 to 20000.0 ft		
ESV:		Bearing [True]: 53.0° to 62.0° Bearing [Mag]: 59.0° to 68.0°			Arc Distance: Out to 131.0 NM Altitude: 13500.0 to 45000.0 ft		
ESV:		Bearing [True]: 76.0° to 87.0° Bearing [Mag]: 82.0° to 93.0°			Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L	662.5	112.90	MBS	Not Used
Restriction:		Bearing [True]: 189.0° to 197.0° Bearing [Mag]: 192.0° to 200.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 63.0° to 80.0° Bearing [Mag]: 66.0° to 83.0°			Arc Distance: Out to 114.0 NM Altitude: 11900.0 to 17000.0 ft		
ESV:		Bearing [True]: 68.0° to 138.0° Bearing [Mag]: 71.0° to 141.0°			Arc Distance: Out to 94.0 NM Altitude: 8800.0 to 15000.0 ft		
ESV:		Bearing [True]: 68.0° to 80.0° Bearing [Mag]: 71.0° to 83.0°			Arc Distance: Out to 121.0 NM Altitude: 13200.0 to 15000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Used
Restriction:		Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
75	APN	N 45° 4' 58.04" W 83° 33' 22.43" 07 W	L	675.7	108.80	APN	Not Used
Restriction:		Bearing [True]: 253.0° to 273.0° Bearing [Mag]: 260.0° to 280.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
ESV:		Bearing [True]: 101.0° to 141.0° Bearing [Mag]: 108.0° to 148.0°			Arc Distance: Out to 104.0 NM Altitude: 11900.0 to 14000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	BUF	N 42° 55' 44.39" W 78° 38' 46.83" 08 W	H	729.4	116.40	BUF	Not Used
Restriction:		Bearing [True]: 254.0° to 267.0° Bearing [Mag]: 262.0° to 275.0°			Distance: Beyond 0.0 NM Altitude: Below 2300.0 ft		
Restriction:		Bearing [True]: 268.0° to 27.0° Bearing [Mag]: 276.0° to 35.0°			Distance: Beyond 0.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 28.0° to 253.0° Bearing [Mag]: 36.0° to 261.0°			Distance: Beyond 0.0 NM Altitude: Below 11000.0 ft		
ESV:		Bearing [True]: 301.0° to 318.0° Bearing [Mag]: 309.0° to 326.0°			Arc Distance: Out to 134.0 NM Altitude: 14000.0 to 45000.0 ft		
ESV:		Bearing [True]: 258.0° to 324.0° Bearing [Mag]: 266.0° to 332.0°			Arc Distance: Out to 103.0 NM Altitude: 9900.0 to 20000.0 ft		
77	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 27.0° to 39.0° Bearing [Mag]: 33.0° to 45.0°			Arc Distance: Out to 126.0 NM Altitude: 12300.0 to 20000.0 ft		
ESV:		Bearing [True]: 27.0° to 67.0° Bearing [Mag]: 33.0° to 73.0°			Arc Distance: Out to 84.0 NM Altitude: 7000.0 to 20000.0 ft		
78	JHW	N 42° 11' 18.99" W 79° 7' 16.70" 07 W	H	1786.0	114.70	JHW	Not Used
ESV:		Bearing [True]: 294.0° to 359.0° Bearing [Mag]: 301.0° to 6.0°			Arc Distance: Out to 110.0 NM Altitude: 9900.0 to 18000.0 ft		
79	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
ESV:		Bearing [True]: 42.0° to 55.0° Bearing [Mag]: 45.0° to 58.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	ERI	N 42° 1' 2.63" W 80° 17' 33.71" 06 W	L	797.0	109.40	ERI	Not Used
Restriction:		Bearing [True]: 104.0° to 174.0° Bearing [Mag]: 110.0° to 180.0°			Distance: Beyond 25.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 244.0° to 268.0° Bearing [Mag]: 250.0° to 274.0°			Distance: Beyond 20.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 175.0° to 243.0° Bearing [Mag]: 181.0° to 249.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 289.0° to 309.0° Bearing [Mag]: 295.0° to 315.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 70.0° to 103.0° Bearing [Mag]: 76.0° to 109.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
ESV:		Bearing [True]: 281.0° to 74.0° Bearing [Mag]: 287.0° to 80.0°			Arc Distance: Out to 90.0 NM Altitude: 7000.0 to 20000.0 ft		
ESV:		Bearing [True]: 2.0° to 19.0° Bearing [Mag]: 8.0° to 25.0°			Arc Distance: Out to 101.0 NM Altitude: 19000.0 to 20000.0 ft		

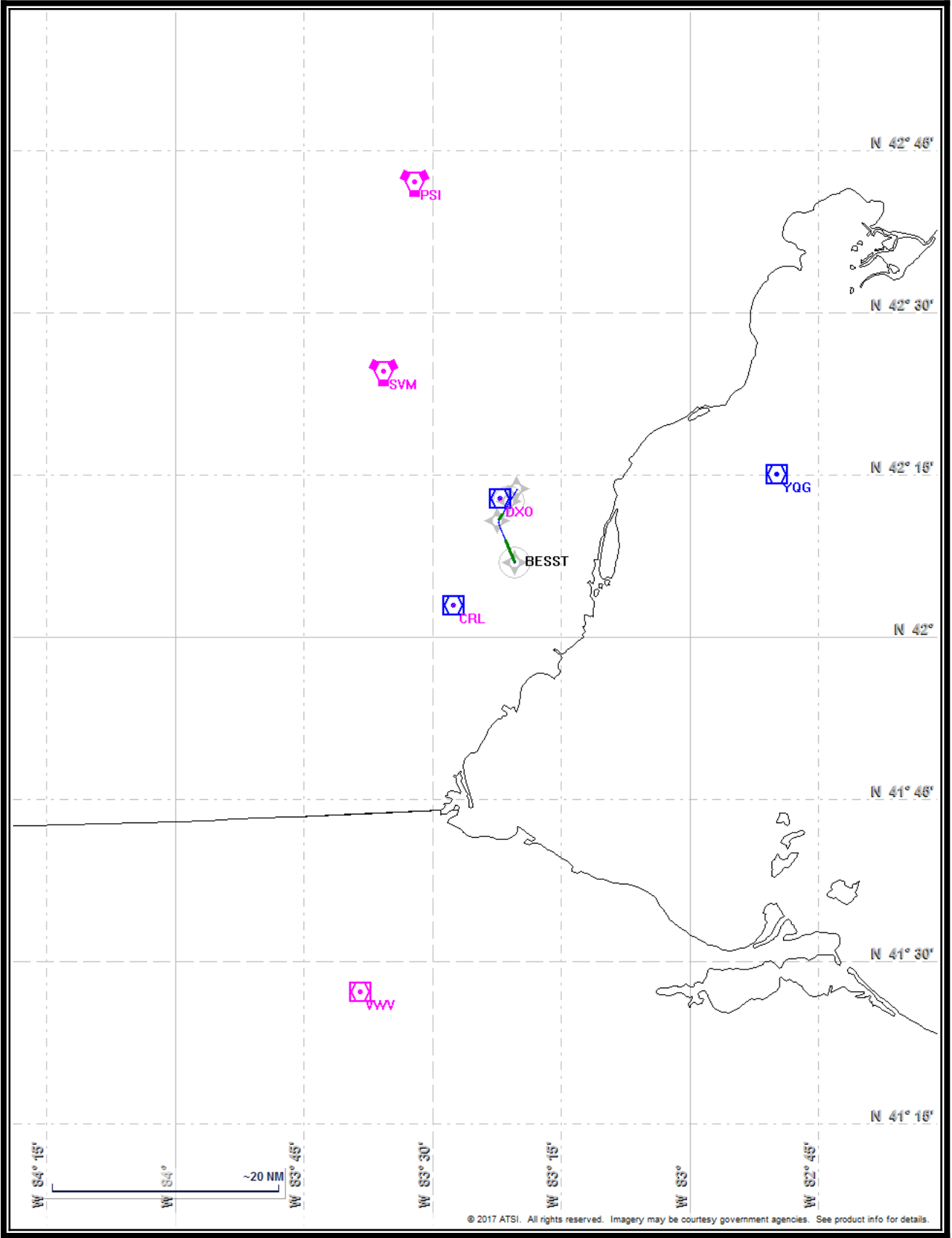
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
81	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
		ESV:	Bearing [True]: 339.0° to 359.0° Bearing [Mag]: 344.0° to 4.0°		Arc Distance: Out to 110.0 NM Altitude: 10000.0 to 20000.0 ft		
82	DKK	N 42° 29' 26.04" W 79° 16' 26.75" 07 W	H	680.0	116.20	DKK	Not Used
		Restriction:	Bearing [True]: 163.0° to 183.0° Bearing [Mag]: 170.0° to 190.0°		Distance: Beyond 17.0 NM Altitude: Below 7500.0 ft		
		Restriction:	Bearing [True]: 199.0° to 228.0° Bearing [Mag]: 206.0° to 235.0°		Distance: Beyond 17.0 NM Altitude: Below 4500.0 ft		
		Restriction:	Bearing [True]: 184.0° to 198.0° Bearing [Mag]: 191.0° to 205.0°		Distance: Beyond 17.0 NM Altitude: Below 5500.0 ft		
		Restriction:	Bearing [True]: 93.0° to 162.0° Bearing [Mag]: 100.0° to 169.0°		Distance: Beyond 17.0 NM Altitude: Below 4700.0 ft		
		Restriction:	Bearing [True]: 353.0° to 353.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		ESV:	Bearing [True]: 316.0° to 335.0° Bearing [Mag]: 323.0° to 342.0°		Arc Distance: Out to 133.0 NM Altitude: 13700.0 to 45000.0 ft		
		ESV:	Bearing [True]: 316.0° to 359.0° Bearing [Mag]: 323.0° to 6.0°		Arc Distance: Out to 80.0 NM Altitude: 10000.0 to 16000.0 ft		



Name: PAUL JACKSON
Project Name: DTW ZETTR SID
Output File: KDTW ZETTR1 SID
RW21R BESST
20171117_1411
Procedure Name: ZETTR1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 11/17/2017 2:12:35 PM
Input File: [KDTW ZETTR SID RW21R
BESST 20170831_1043.txt](#)
Databases: AIRNAV Date: 11/11/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

Results Summary:

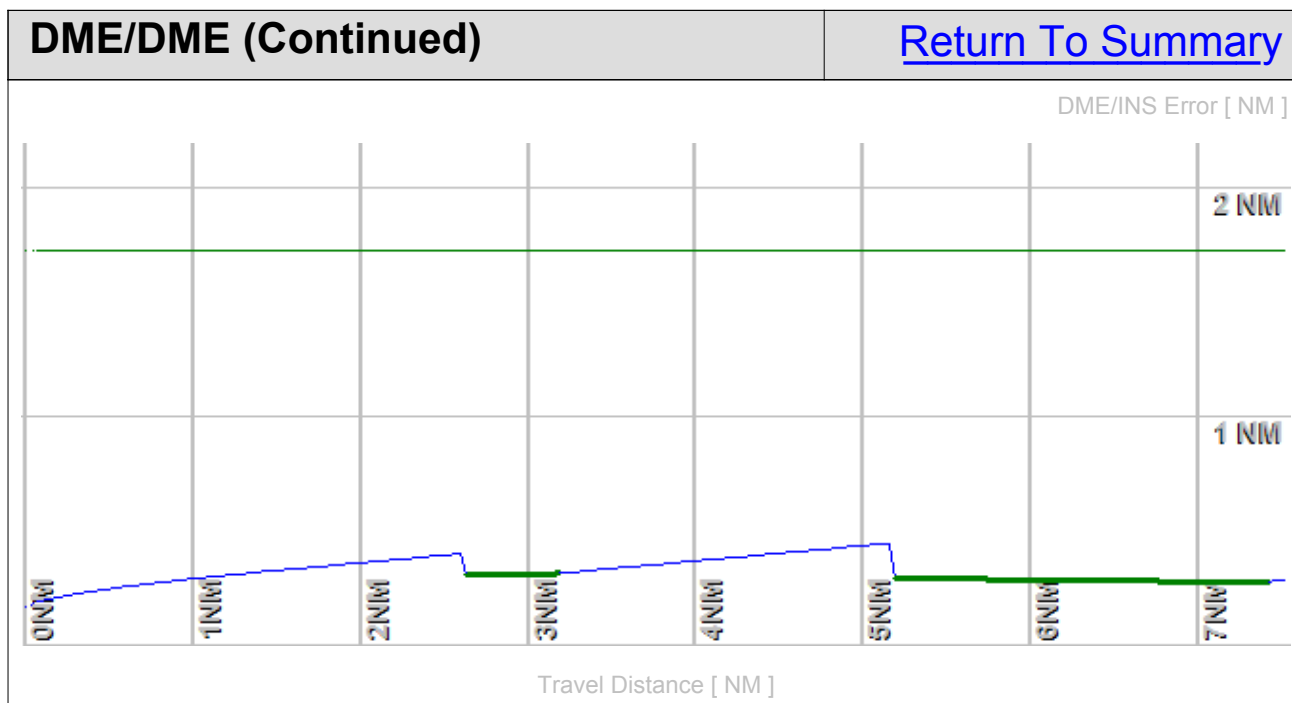
Flyability	✓	Please Check Flyability Results
DME/DME	✓	No Critical DMEs Exist
Radars	?	
Comms	?	
TERPS	?	



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW21R(...	WP	N 42° 13' 41.85" W 83° 20' 10.12"	631.6	VNAV	0.0	Fly By	TF
RW03L(...	WP	N 42° 12' 28.21" W 83° 21' 4.39"	670.9	VNAV	130.0	Fly Over	VI
GH21R:	WP	N 42° 10' 42.86" W 83° 22' 21.94"	1671.0	VNAV	145.0	Fly By	CF - 159.0°
BESST	WP	N 42° 6' 50.61" W 83° 20' 22.22"	2499.9	VNAV	145.0	Fly Over	TF
Climb Gradient: 500.0 ft/NM up to 1146.0 ft MSL							

Flyability		Return To Summary
Settings:	Flight Type: Runway Departure Selected Airport: KDTW Aircraft Category: Cat D Climb Gradient: 500.0 ft/NM up to 1146.0 ft MSL Ground Speeds: Departure: 120.0 Kts out to 10.0 NM Table: 200.0 Kts up to 11000.0 ft 240.0 Kts up to 18000.0 ft 260.0 Kts up to 24000.0 ft 340.0 Kts up to 99900.0 ft Wind Settings: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	Flight Track comes into contact with terrain. Minimum AGL along route was -57.38 Ft. Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.	

DME/DME	Return To Summary
Settings:	RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.165 NM INS Drift Rate: 8.000 NM/Hour Range Mode: OSV Co-Frequencies: Evaluated RNP Edges: Evaluated Min DME Range: 3.0 NM Allowed Gap Length: 4.0 NM DME Types: VOR/DME, VORTAC, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Not included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated Minimum MSL DMEs Avail: 1271 ft
Total Number of DMEs Used: 2 Maximum DME Error: 0.449 NM. No Critical DMEs were found. Available DMEs: CRL, SVM, DXO Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV Foreign DMEs within range: YEE, YQG, YQO, YVV, YWT, YXU, YYZ	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	0.732	Enabled	32.9%	37.2%
2	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	Database	NO	0.732	Enabled	32.9%	37.2%
	Total Coverage							32.9%	37.2%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0									
1.4		CRL	SVM						
3.1		CRL	SVM	DXO					
Inertial Drift Segments									
#	Start Location			End Location			Length [NM]		
1	N 42° 13' 41.85" W 83° 20' 10.12"			N 42° 11' 25.51" W 83° 21' 50.53"			2.6		
VOR: DET			Available from N 42° 13' 41.85" W 83° 20' 10.12" to N 42° 11' 25.51" W 83° 21' 50.53"						
VOR: CRL			Available from N 42° 13' 41.85" W 83° 20' 10.12" to N 42° 11' 25.51" W 83° 21' 50.53"						
VOR: YQG			Available from N 42° 13' 41.85" W 83° 20' 10.12" to N 42° 11' 25.51" W 83° 21' 50.53"						
VOR: DTW			Available from N 42° 13' 41.85" W 83° 20' 10.12" to N 42° 11' 25.51" W 83° 21' 50.53"						
VOR: YIP			Available from N 42° 13' 41.85" W 83° 20' 10.12" to N 42° 11' 25.51" W 83° 21' 50.53"						
VOR: SVM			Available from N 42° 13' 41.85" W 83° 20' 10.12" to N 42° 11' 25.51" W 83° 21' 50.53"						
VOR: PSI			Available from N 42° 13' 41.85" W 83° 20' 10.12" to N 42° 11' 25.51" W 83° 21' 50.53"						
VOR: DXO			Available from N 42° 13' 41.85" W 83° 20' 10.12" to N 42° 11' 25.51" W 83° 21' 50.53"						

DME/DME (Continued)			Return To Summary
<i>Inertial Drift Segments (Continued)</i>			
#	Start Location	End Location	Length [NM]
2	N 42° 10' 53.91" W 83° 22' 13.75"	N 42° 9' 3.14" W 83° 21' 32.75"	2.0
	VOR: DET	Available from N 42° 10' 53.91" W 83° 22' 13.75" to N 42° 9' 3.14" W 83° 21' 32.75"	
	VOR: CRL	Available from N 42° 10' 53.91" W 83° 22' 13.75" to N 42° 9' 3.14" W 83° 21' 32.75"	
	VOR: YQG	Available from N 42° 10' 53.91" W 83° 22' 13.75" to N 42° 9' 3.14" W 83° 21' 32.75"	
	VOR: DTW	Available from N 42° 10' 53.91" W 83° 22' 13.75" to N 42° 9' 3.14" W 83° 21' 32.75"	
	VOR: YIP	Available from N 42° 10' 53.91" W 83° 22' 13.75" to N 42° 9' 3.14" W 83° 21' 32.75"	
	VOR: SVM	Available from N 42° 10' 53.91" W 83° 22' 13.75" to N 42° 9' 3.14" W 83° 21' 32.75"	
	VOR: PSI	Available from N 42° 10' 53.91" W 83° 22' 13.75" to N 42° 9' 3.14" W 83° 21' 32.75"	
	VOR: DXO	Available from N 42° 10' 53.91" W 83° 22' 13.75" to N 42° 9' 3.14" W 83° 21' 32.75"	

DME/DME (Continued)			Return To Summary
<i>Inertial Drift Segments (Continued)</i>			
#	Start Location	End Location	Length [NM]
3	N 42° 6' 56.64" W 83° 20' 25.47"	N 42° 6' 51.06" W 83° 20' 22.48"	0.1
	VOR: DET	Available from N 42° 6' 56.64" W 83° 20' 25.47" to N 42° 6' 51.06" W 83° 20' 22.48"	
	VOR: CRL	Available from N 42° 6' 56.64" W 83° 20' 25.47" to N 42° 6' 51.06" W 83° 20' 22.48"	
	VOR: YQG	Available from N 42° 6' 56.64" W 83° 20' 25.47" to N 42° 6' 51.06" W 83° 20' 22.48"	
	VOR: DTW	Available from N 42° 6' 56.64" W 83° 20' 25.47" to N 42° 6' 51.06" W 83° 20' 22.48"	
	VOR: YIP	Available from N 42° 6' 56.64" W 83° 20' 25.47" to N 42° 6' 51.06" W 83° 20' 22.48"	
	VOR: SVM	Available from N 42° 6' 56.64" W 83° 20' 25.47" to N 42° 6' 51.06" W 83° 20' 22.48"	
	VOR: PSI	Available from N 42° 6' 56.64" W 83° 20' 25.47" to N 42° 6' 51.06" W 83° 20' 22.48"	
	VOR: DXO	Available from N 42° 6' 56.64" W 83° 20' 25.47" to N 42° 6' 51.06" W 83° 20' 22.48"	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW21R(AER)	RW03L(DER)	
RW03L(DER)	GH21R:	CRL and SVM
GH21R:	BESST	CRL, DXO, and SVM

User Data					Return To Summary		
User Data Files							
#	File Name						
1	UserDMEs_KDTW ZETTR1 SID RW21R BESST 20171113_1423.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

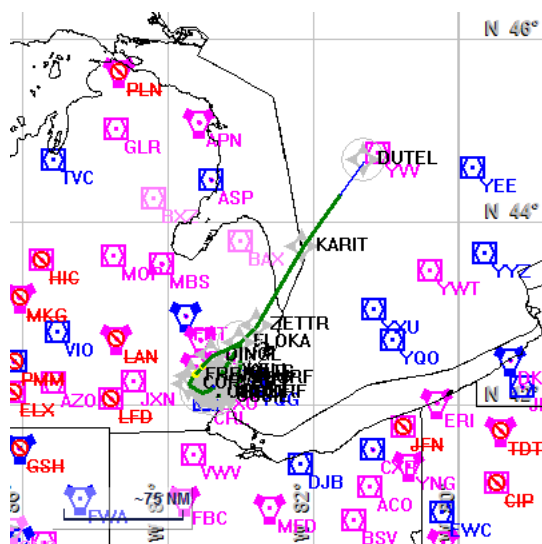
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H	625.1	116.10	ASP	Not Used
Restriction:		Bearing [True]: 293.0° to 13.0° Bearing [Mag]: 300.0° to 20.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
ESV:		Bearing [True]: 77.0° to 171.0° Bearing [Mag]: 84.0° to 178.0°			Arc Distance: Out to 106.0 NM Altitude: 8600.0 to 20000.0 ft		
ESV:		Bearing [True]: 86.0° to 114.0° Bearing [Mag]: 93.0° to 121.0°			Arc Distance: Out to 130.0 NM Altitude: 13100.0 to 20000.0 ft		
72	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H	771.5	116.90	FNT	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 223.0° to 303.0° Bearing [Mag]: 229.0° to 309.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 304.0° to 222.0° Bearing [Mag]: 310.0° to 228.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
ESV:		Bearing [True]: 44.0° to 62.0° Bearing [Mag]: 50.0° to 68.0°			Arc Distance: Out to 123.0 NM Altitude: 11900.0 to 20000.0 ft		
ESV:		Bearing [True]: 53.0° to 62.0° Bearing [Mag]: 59.0° to 68.0°			Arc Distance: Out to 131.0 NM Altitude: 13500.0 to 45000.0 ft		
ESV:		Bearing [True]: 76.0° to 87.0° Bearing [Mag]: 82.0° to 93.0°			Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L	662.5	112.90	MBS	Not Used
Restriction:		Bearing [True]: 189.0° to 197.0° Bearing [Mag]: 192.0° to 200.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 63.0° to 80.0° Bearing [Mag]: 66.0° to 83.0°			Arc Distance: Out to 114.0 NM Altitude: 11900.0 to 17000.0 ft		
ESV:		Bearing [True]: 68.0° to 138.0° Bearing [Mag]: 71.0° to 141.0°			Arc Distance: Out to 94.0 NM Altitude: 8800.0 to 15000.0 ft		
ESV:		Bearing [True]: 68.0° to 80.0° Bearing [Mag]: 71.0° to 83.0°			Arc Distance: Out to 121.0 NM Altitude: 13200.0 to 15000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Not Used
Restriction:		Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
75	APN	N 45° 4' 58.04" W 83° 33' 22.43" 07 W	L	675.7	108.80	APN	Not Used
Restriction:		Bearing [True]: 253.0° to 273.0° Bearing [Mag]: 260.0° to 280.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
ESV:		Bearing [True]: 101.0° to 141.0° Bearing [Mag]: 108.0° to 148.0°			Arc Distance: Out to 104.0 NM Altitude: 11900.0 to 14000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	BUF	N 42° 55' 44.39" W 78° 38' 46.83" 08 W	H	729.4	116.40	BUF	Not Used
Restriction:		Bearing [True]: 254.0° to 267.0° Bearing [Mag]: 262.0° to 275.0°			Distance: Beyond 0.0 NM Altitude: Below 2300.0 ft		
Restriction:		Bearing [True]: 268.0° to 27.0° Bearing [Mag]: 276.0° to 35.0°			Distance: Beyond 0.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 28.0° to 253.0° Bearing [Mag]: 36.0° to 261.0°			Distance: Beyond 0.0 NM Altitude: Below 11000.0 ft		
ESV:		Bearing [True]: 301.0° to 318.0° Bearing [Mag]: 309.0° to 326.0°			Arc Distance: Out to 134.0 NM Altitude: 14000.0 to 45000.0 ft		
ESV:		Bearing [True]: 258.0° to 324.0° Bearing [Mag]: 266.0° to 332.0°			Arc Distance: Out to 103.0 NM Altitude: 9900.0 to 20000.0 ft		
77	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 27.0° to 39.0° Bearing [Mag]: 33.0° to 45.0°			Arc Distance: Out to 126.0 NM Altitude: 12300.0 to 20000.0 ft		
ESV:		Bearing [True]: 27.0° to 67.0° Bearing [Mag]: 33.0° to 73.0°			Arc Distance: Out to 84.0 NM Altitude: 7000.0 to 20000.0 ft		
78	JHW	N 42° 11' 18.99" W 79° 7' 16.70" 07 W	H	1786.0	114.70	JHW	Not Used
ESV:		Bearing [True]: 294.0° to 359.0° Bearing [Mag]: 301.0° to 6.0°			Arc Distance: Out to 110.0 NM Altitude: 9900.0 to 18000.0 ft		
79	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
ESV:		Bearing [True]: 42.0° to 55.0° Bearing [Mag]: 45.0° to 58.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	ERI	N 42° 1' 2.63" W 80° 17' 33.71" 06 W	L	797.0	109.40	ERI	Not Used
Restriction:		Bearing [True]: 104.0° to 174.0° Bearing [Mag]: 110.0° to 180.0°			Distance: Beyond 25.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 244.0° to 268.0° Bearing [Mag]: 250.0° to 274.0°			Distance: Beyond 20.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 175.0° to 243.0° Bearing [Mag]: 181.0° to 249.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 289.0° to 309.0° Bearing [Mag]: 295.0° to 315.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 70.0° to 103.0° Bearing [Mag]: 76.0° to 109.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
ESV:		Bearing [True]: 281.0° to 74.0° Bearing [Mag]: 287.0° to 80.0°			Arc Distance: Out to 90.0 NM Altitude: 7000.0 to 20000.0 ft		
ESV:		Bearing [True]: 2.0° to 19.0° Bearing [Mag]: 8.0° to 25.0°			Arc Distance: Out to 101.0 NM Altitude: 19000.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
81	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
		ESV:	Bearing [True]: 339.0° to 359.0° Bearing [Mag]: 344.0° to 4.0°		Arc Distance: Out to 110.0 NM Altitude: 10000.0 to 20000.0 ft		
82	DKK	N 42° 29' 26.04" W 79° 16' 26.75" 07 W	H	680.0	116.20	DKK	Not Used
		Restriction:	Bearing [True]: 163.0° to 183.0° Bearing [Mag]: 170.0° to 190.0°		Distance: Beyond 17.0 NM Altitude: Below 7500.0 ft		
		Restriction:	Bearing [True]: 199.0° to 228.0° Bearing [Mag]: 206.0° to 235.0°		Distance: Beyond 17.0 NM Altitude: Below 4500.0 ft		
		Restriction:	Bearing [True]: 184.0° to 198.0° Bearing [Mag]: 191.0° to 205.0°		Distance: Beyond 17.0 NM Altitude: Below 5500.0 ft		
		Restriction:	Bearing [True]: 93.0° to 162.0° Bearing [Mag]: 100.0° to 169.0°		Distance: Beyond 17.0 NM Altitude: Below 4700.0 ft		
		Restriction:	Bearing [True]: 353.0° to 353.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		ESV:	Bearing [True]: 316.0° to 335.0° Bearing [Mag]: 323.0° to 342.0°		Arc Distance: Out to 133.0 NM Altitude: 13700.0 to 45000.0 ft		
		ESV:	Bearing [True]: 316.0° to 359.0° Bearing [Mag]: 323.0° to 6.0°		Arc Distance: Out to 80.0 NM Altitude: 10000.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: DTW ZETTR SID
Output File: KDTW ZETTR1 SID
RW22L FORDZ
20171113_1423
Procedure Name: ZETTR1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 11/13/2017 2:56:46 PM
Input File: [KDTW ZETTR1 SID RW22L FORDZ 20170831_1046.txt](#)
Databases: AIRNAV Date: 10/27/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

Results Summary:

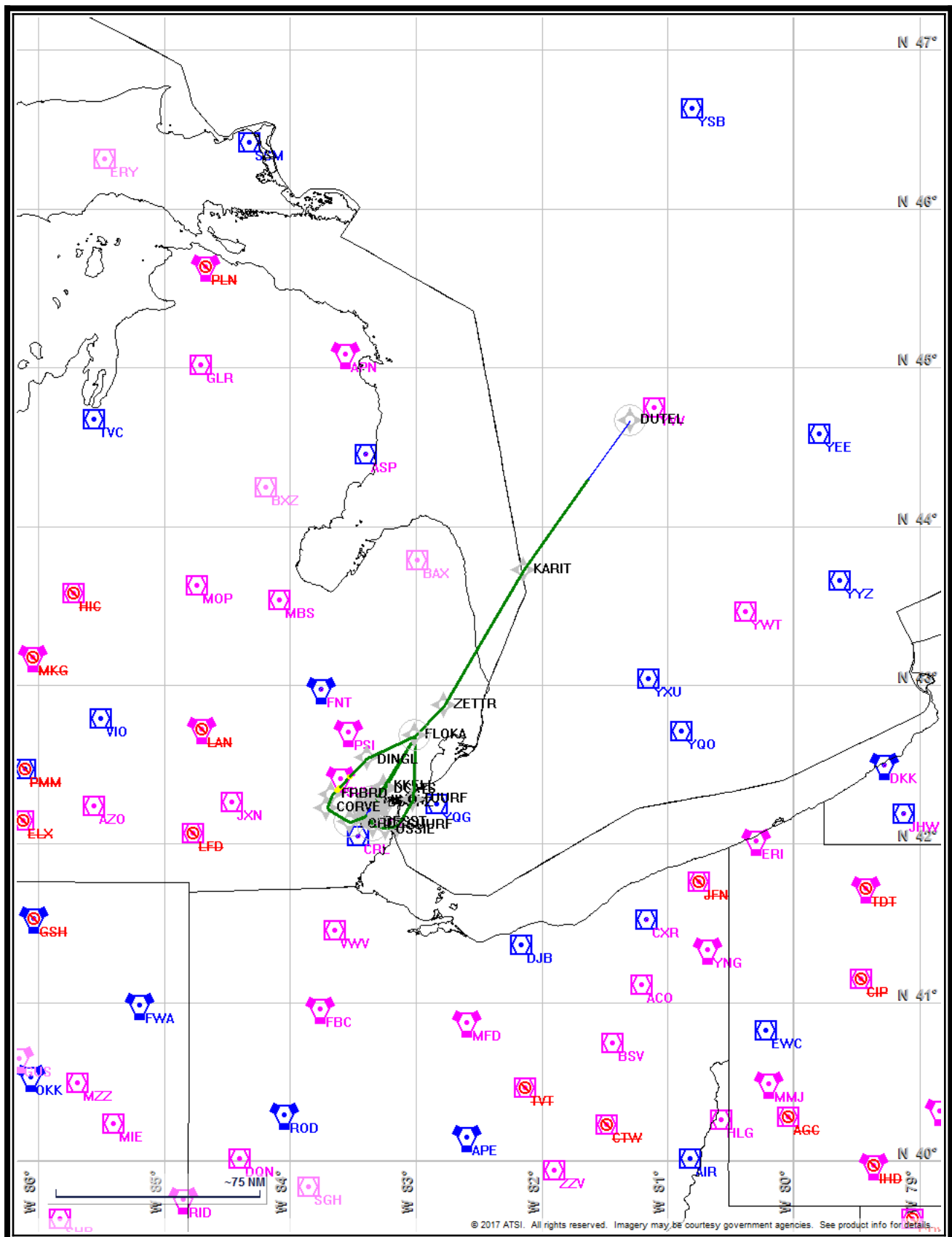
Flyability  Please Check **Flyability** Results

DME/DME  No Critical DMEs Exist

Radars 

Comms 

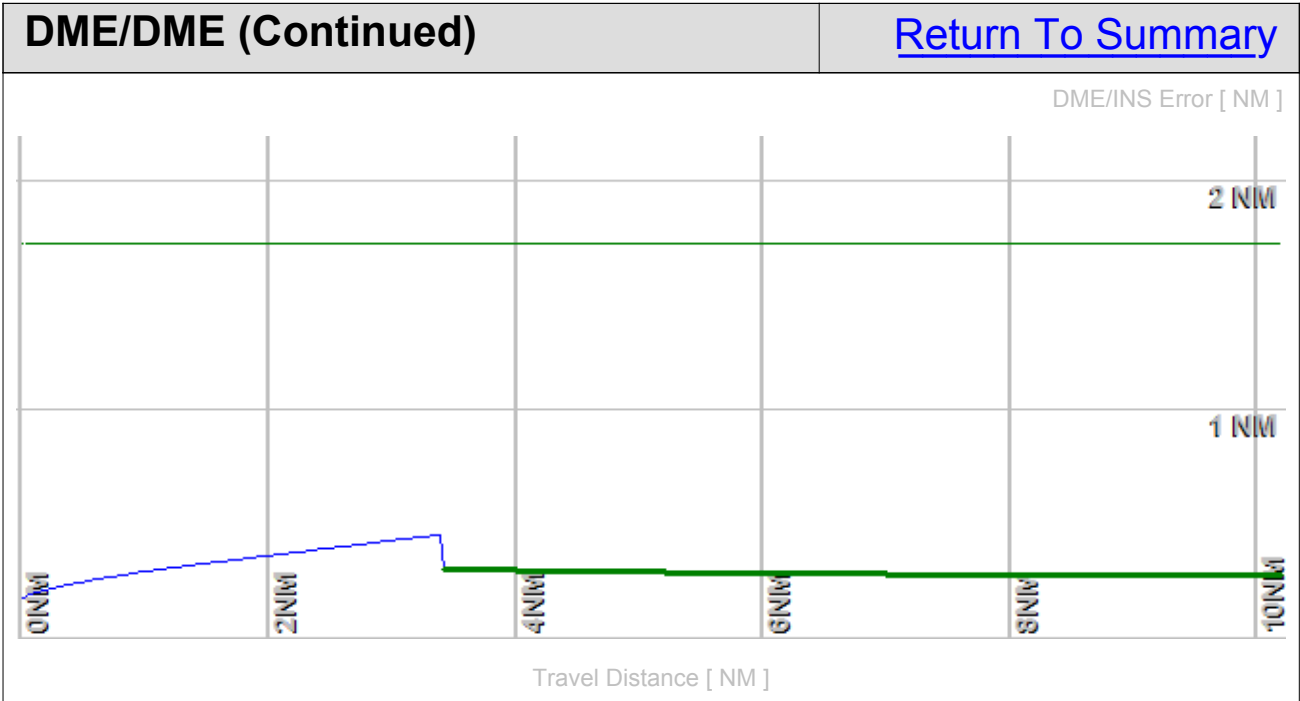
TERPS 



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW22L(...	WP	N 42° 13' 52.37" W 83° 20' 59.97"	635.8	VNAV	0.0	Fly By	TF
RW04R(...	WP	N 42° 12' 8.37" W 83° 22' 16.57"	672.2	VNAV	130.0	Fly Over	VI
GH22L:	WP	N 42° 10' 22.97" W 83° 23' 34.11"	1672.8	VNAV	145.0	Fly By	CF - 249.0°
FORDZ	WP	N 42° 8' 8.79" W 83° 31' 25.03"	2923.1	VNAV	145.0	Fly Over	TF
Climb Gradient: 500.0 ft/NM up to 1146.0 ft MSL							

Flyability		Return To Summary
Settings:	Flight Type: Runway Departure Selected Airport: KDTW Aircraft Category: Cat D Climb Gradient: 500.0 ft/NM up to 1146.0 ft MSL Ground Speeds: Departure: 120.0 Kts out to 10.0 NM Table: 200.0 Kts up to 11000.0 ft 240.0 Kts up to 18000.0 ft 260.0 Kts up to 24000.0 ft 340.0 Kts up to 99900.0 ft Wind Settings: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	Flight Track comes into contact with terrain. Minimum AGL along route was -46.61 Ft. Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.	

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.165 NM INS Drift Rate: 8.000 NM/Hour Range Mode: OSV Co-Frequencies: Evaluated RNP Edges: Evaluated Min DME Range: 3.0 NM Allowed Gap Length: 4.0 NM DME Types: VOR/DME, VORTAC, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated Minimum MSL DMEs Avail: 1388 ft </p>
<p>Total Number of DMEs Used: 2</p> <p>Maximum DME Error: 0.456 NM.</p> <p>No Critical DMEs were found.</p> <p>Available DMEs: CRL, SVM, YQG, DXO</p> <p>Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV</p> <p>Foreign DMEs within range: YEE, YQG, YQO, YVV, YWT, YXU, YYZ</p>	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	Database	NO	0.587	Enabled	60.9%	66.7%
2	YQG	N 42° 14' 59.00" W 82° 49' 44.20" 06 W	H	Database	NO	0.496	Enabled	60.9%	66.7%
	Total Coverage							60.9%	66.7%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0									
2.0		CRL	SVM	YQG					
3.8		CRL	SVM	YQG	DXO				
Inertial Drift Segments									
#	Start Location			End Location			Length [NM]		
1	N 42° 13' 52.37" W 83° 20' 59.97"			N 42° 10' 53.90" W 83° 23' 11.34"			3.4		
VOR: DET			Available from N 42° 13' 52.37" W 83° 20' 59.97" to N 42° 10' 53.90" W 83° 23' 11.34"						
VOR: CRL			Available from N 42° 13' 52.37" W 83° 20' 59.97" to N 42° 10' 53.90" W 83° 23' 11.34"						
VOR: YQG			Available from N 42° 13' 52.37" W 83° 20' 59.97" to N 42° 10' 53.90" W 83° 23' 11.34"						
VOR: DTW			Available from N 42° 13' 52.37" W 83° 20' 59.97" to N 42° 10' 53.90" W 83° 23' 11.34"						
VOR: YIP			Available from N 42° 13' 52.37" W 83° 20' 59.97" to N 42° 10' 53.90" W 83° 23' 11.34"						
VOR: SVM			Available from N 42° 13' 52.37" W 83° 20' 59.97" to N 42° 10' 53.90" W 83° 23' 11.34"						
VOR: PSI			Available from N 42° 13' 52.37" W 83° 20' 59.97" to N 42° 10' 53.90" W 83° 23' 11.34"						
VOR: DXO			Available from N 42° 13' 52.37" W 83° 20' 59.97" to N 42° 10' 53.90" W 83° 23' 11.34"						

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW22L(AER)	RW04R(DER)	
RW04R(DER)	GH22L:	CRL, SVM, and YQG
GH22L:	FORDZ	CRL, DXO, SVM, and YQG

User Data					Return To Summary		
User Data Files							
#	File Name						
1	ZETTR_DKK_ESV.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

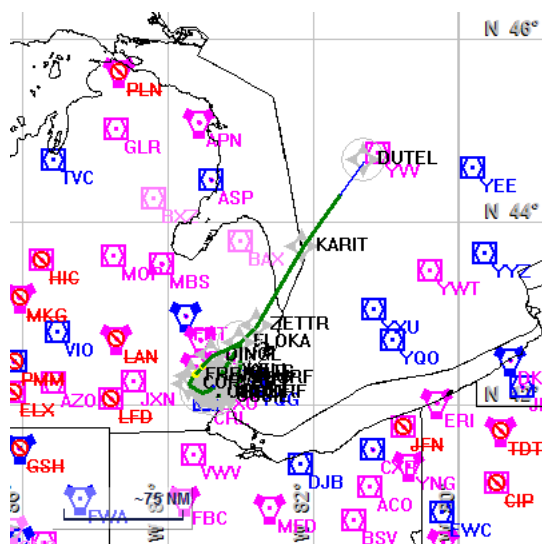
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H	625.1	116.10	ASP	Not Used
Restriction:		Bearing [True]: 293.0° to 13.0° Bearing [Mag]: 300.0° to 20.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
ESV:		Bearing [True]: 77.0° to 171.0° Bearing [Mag]: 84.0° to 178.0°			Arc Distance: Out to 106.0 NM Altitude: 8600.0 to 20000.0 ft		
ESV:		Bearing [True]: 86.0° to 114.0° Bearing [Mag]: 93.0° to 121.0°			Arc Distance: Out to 130.0 NM Altitude: 13100.0 to 20000.0 ft		
72	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H	771.5	116.90	FNT	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 223.0° to 303.0° Bearing [Mag]: 229.0° to 309.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 304.0° to 222.0° Bearing [Mag]: 310.0° to 228.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
ESV:		Bearing [True]: 44.0° to 62.0° Bearing [Mag]: 50.0° to 68.0°			Arc Distance: Out to 123.0 NM Altitude: 11900.0 to 20000.0 ft		
ESV:		Bearing [True]: 53.0° to 62.0° Bearing [Mag]: 59.0° to 68.0°			Arc Distance: Out to 131.0 NM Altitude: 13500.0 to 45000.0 ft		
ESV:		Bearing [True]: 76.0° to 87.0° Bearing [Mag]: 82.0° to 93.0°			Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L	662.5	112.90	MBS	Not Used
Restriction:		Bearing [True]: 189.0° to 197.0° Bearing [Mag]: 192.0° to 200.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 63.0° to 80.0° Bearing [Mag]: 66.0° to 83.0°			Arc Distance: Out to 114.0 NM Altitude: 11900.0 to 17000.0 ft		
ESV:		Bearing [True]: 68.0° to 138.0° Bearing [Mag]: 71.0° to 141.0°			Arc Distance: Out to 94.0 NM Altitude: 8800.0 to 15000.0 ft		
ESV:		Bearing [True]: 68.0° to 80.0° Bearing [Mag]: 71.0° to 83.0°			Arc Distance: Out to 121.0 NM Altitude: 13200.0 to 15000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Not Used
Restriction:		Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
75	APN	N 45° 4' 58.04" W 83° 33' 22.43" 07 W	L	675.7	108.80	APN	Not Used
Restriction:		Bearing [True]: 253.0° to 273.0° Bearing [Mag]: 260.0° to 280.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
ESV:		Bearing [True]: 101.0° to 141.0° Bearing [Mag]: 108.0° to 148.0°			Arc Distance: Out to 104.0 NM Altitude: 11900.0 to 14000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	BUF	N 42° 55' 44.39" W 78° 38' 46.83" 08 W	H	729.4	116.40	BUF	Not Used
Restriction:		Bearing [True]: 254.0° to 267.0° Bearing [Mag]: 262.0° to 275.0°			Distance: Beyond 0.0 NM Altitude: Below 2300.0 ft		
Restriction:		Bearing [True]: 268.0° to 27.0° Bearing [Mag]: 276.0° to 35.0°			Distance: Beyond 0.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 28.0° to 253.0° Bearing [Mag]: 36.0° to 261.0°			Distance: Beyond 0.0 NM Altitude: Below 11000.0 ft		
ESV:		Bearing [True]: 301.0° to 318.0° Bearing [Mag]: 309.0° to 326.0°			Arc Distance: Out to 134.0 NM Altitude: 14000.0 to 45000.0 ft		
ESV:		Bearing [True]: 258.0° to 324.0° Bearing [Mag]: 266.0° to 332.0°			Arc Distance: Out to 103.0 NM Altitude: 9900.0 to 20000.0 ft		
77	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 27.0° to 39.0° Bearing [Mag]: 33.0° to 45.0°			Arc Distance: Out to 126.0 NM Altitude: 12300.0 to 20000.0 ft		
ESV:		Bearing [True]: 27.0° to 67.0° Bearing [Mag]: 33.0° to 73.0°			Arc Distance: Out to 84.0 NM Altitude: 7000.0 to 20000.0 ft		
78	JHW	N 42° 11' 18.99" W 79° 7' 16.70" 07 W	H	1786.0	114.70	JHW	Not Used
ESV:		Bearing [True]: 294.0° to 359.0° Bearing [Mag]: 301.0° to 6.0°			Arc Distance: Out to 110.0 NM Altitude: 9900.0 to 18000.0 ft		
79	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Not Used
ESV:		Bearing [True]: 42.0° to 55.0° Bearing [Mag]: 45.0° to 58.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	ERI	N 42° 1' 2.63" W 80° 17' 33.71" 06 W	L	797.0	109.40	ERI	Not Used
Restriction:		Bearing [True]: 104.0° to 174.0° Bearing [Mag]: 110.0° to 180.0°			Distance: Beyond 25.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 244.0° to 268.0° Bearing [Mag]: 250.0° to 274.0°			Distance: Beyond 20.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 175.0° to 243.0° Bearing [Mag]: 181.0° to 249.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 289.0° to 309.0° Bearing [Mag]: 295.0° to 315.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 70.0° to 103.0° Bearing [Mag]: 76.0° to 109.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
ESV:		Bearing [True]: 281.0° to 74.0° Bearing [Mag]: 287.0° to 80.0°			Arc Distance: Out to 90.0 NM Altitude: 7000.0 to 20000.0 ft		
ESV:		Bearing [True]: 2.0° to 19.0° Bearing [Mag]: 8.0° to 25.0°			Arc Distance: Out to 101.0 NM Altitude: 19000.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
81	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
		ESV:	Bearing [True]: 339.0° to 359.0° Bearing [Mag]: 344.0° to 4.0°		Arc Distance: Out to 110.0 NM Altitude: 10000.0 to 20000.0 ft		
82	DKK	N 42° 29' 26.04" W 79° 16' 26.75" 07 W	H	680.0	116.20	DKK	Not Used
		Restriction:	Bearing [True]: 163.0° to 183.0° Bearing [Mag]: 170.0° to 190.0°		Distance: Beyond 17.0 NM Altitude: Below 7500.0 ft		
		Restriction:	Bearing [True]: 199.0° to 228.0° Bearing [Mag]: 206.0° to 235.0°		Distance: Beyond 17.0 NM Altitude: Below 4500.0 ft		
		Restriction:	Bearing [True]: 184.0° to 198.0° Bearing [Mag]: 191.0° to 205.0°		Distance: Beyond 17.0 NM Altitude: Below 5500.0 ft		
		Restriction:	Bearing [True]: 93.0° to 162.0° Bearing [Mag]: 100.0° to 169.0°		Distance: Beyond 17.0 NM Altitude: Below 4700.0 ft		
		Restriction:	Bearing [True]: 353.0° to 353.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		ESV:	Bearing [True]: 316.0° to 335.0° Bearing [Mag]: 323.0° to 342.0°		Arc Distance: Out to 133.0 NM Altitude: 13700.0 to 45000.0 ft		
		ESV:	Bearing [True]: 316.0° to 359.0° Bearing [Mag]: 323.0° to 6.0°		Arc Distance: Out to 80.0 NM Altitude: 10000.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: DTW ZETTR SID
Output File: KDTW ZETTR1 SID
RW22R FLOKA
20171113_1423
Procedure Name: ZETTR1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 11/13/2017 2:59:20 PM
Input File: [KDTW ZETTR1 SID
RW22R FLOKA
20170823_0922.txt](#)
Databases: AIRNAV Date: 10/27/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

Results Summary:

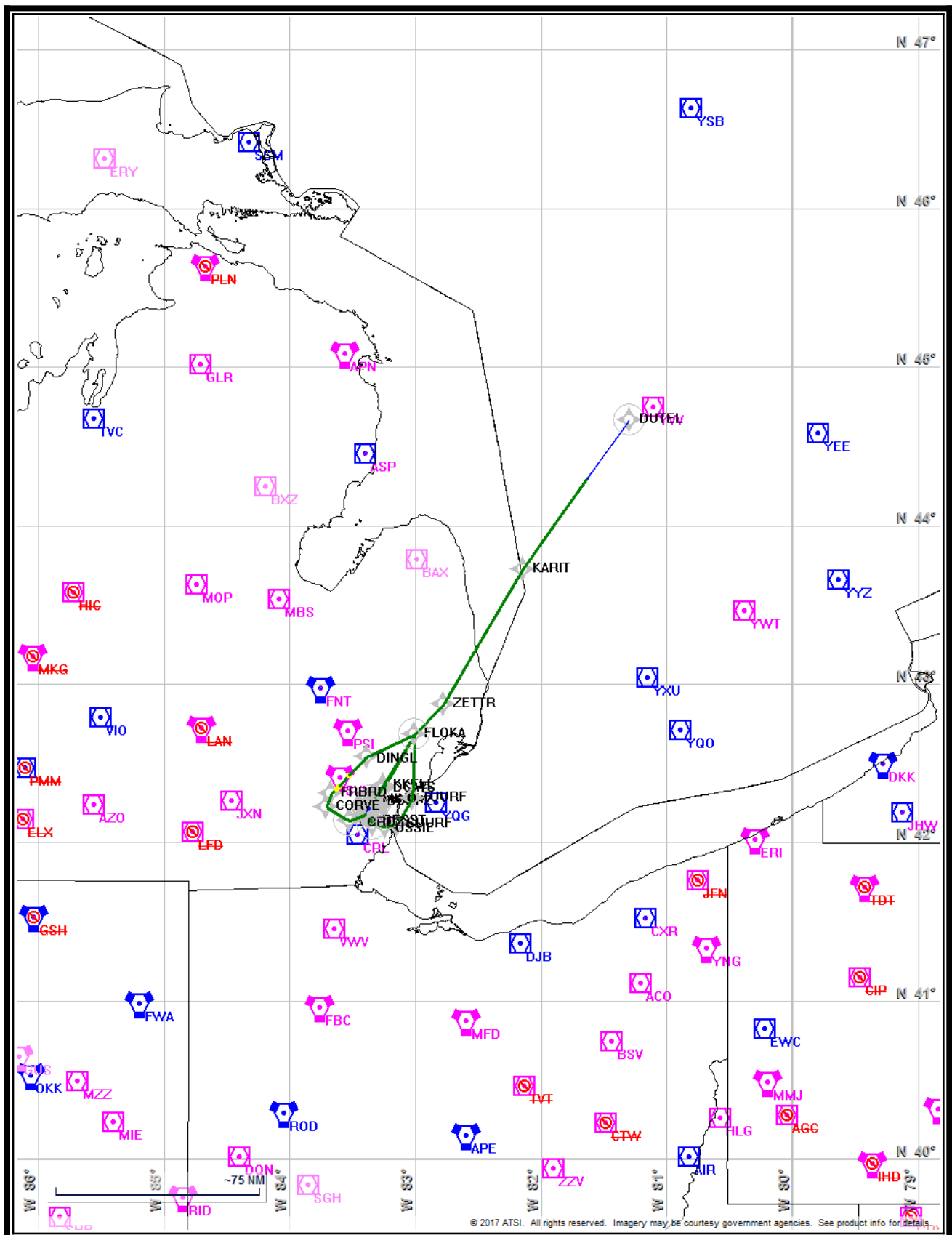
Flyability  Please Check **Flyability** Results

DME/DME  No Critical DMEs Exist

Radars 

Comms 

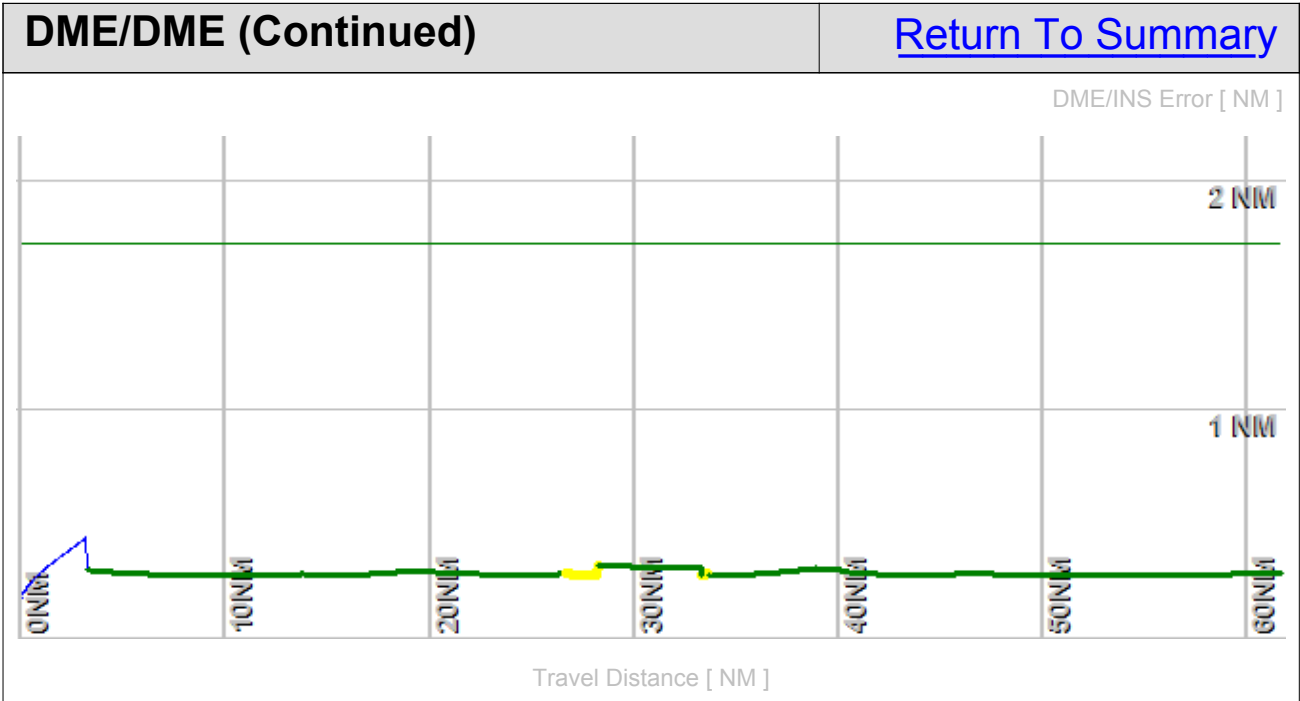
TERPS 



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW22R(...	WP	N 42° 13' 34.48" W 83° 21' 58.61"	642.2	VNAV	0.0	Fly By	TF
RW04L(...	WP	N 42° 12' 7.82" W 83° 23' 2.40"	680.2	VNAV	130.0	Fly Over	VI
GH22R:	WP	N 42° 10' 22.48" W 83° 24' 19.86"	1680.2	VNAV	145.0	Fly By	CF - 247.0°
FORDZ	WP	N 42° 8' 8.79" W 83° 31' 25.03"	2824.6	VNAV	145.0	Fly By	TF
CORVE	WP	N 42° 13' 15.71" W 83° 42' 24.97"	4000.0	VNAV	145.0	Fly By	TF
FRBRD	WP	N 42° 18' 24.14" W 83° 40' 0.66"	4000.0	VNAV	145.0	Fly By	TF
DINGL	WP	N 42° 32' 19.38" W 83° 23' 17.31"	4000.0	VNAV	145.0	Fly By	TF
FLOKA	WP	N 42° 40' 49.29" W 83° 0' 13.05"	4000.0	VNAV	145.0	Fly Over	TF
Climb Gradient: Table: 500.0 ft/NM up to 1100.0 ft MSL 200.0 ft/NM up to 10000.0 ft MSL							

Flyability	Return To Summary
Settings:	<p>Flight Type: Runway Departure Selected Airport: KDTW Aircraft Category: Cat D Climb Gradient: Table: 500.0 ft/NM up to 1100.0 ft MSL 200.0 ft/NM up to 10000.0 ft MSL Ground Speeds: Departure: 120.0 Kts out to 10.0 NM Table: 200.0 Kts up to 11000.0 ft 240.0 Kts up to 18000.0 ft 260.0 Kts up to 24000.0 ft 340.0 Kts up to 99900.0 ft Wind Settings: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan</p>
	<p>Aircraft ALTITUDE at Fly-By WP GH22R: too low. Aircraft ALTITUDE at Fly-By WP FORDZ too low. Aircraft ALTITUDE at Fly-By WP CORVE too high. Aircraft ALTITUDE at Fly-By WP FRBRD too high. Aircraft ALTITUDE at Fly-By WP DINGL too high. Aircraft ALTITUDE at Fly-Over WP FLOKA too high. Flight Track comes into contact with terrain. Minimum AGL along route was -43.50 Ft. Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.</p>

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.165 NM INS Drift Rate: 8.000 NM/Hour Range Mode: OSV Co-Frequencies: Evaluated RNP Edges: Evaluated Min DME Range: 3.0 NM Allowed Gap Length: 4.0 NM DME Types: VOR/DME, VORTAC, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated Minimum MSL DMEs Avail: 1247 ft </p>
<p> Total Number of DMEs Used: 7 Maximum DME Error: 0.443 NM. No Critical DMEs were found. Available DMEs: SVM, CRL, YQG, DXO, JXN, PSI, FNT, MBS Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV Foreign DMEs within range: YEE, YQG, YQO, YVV, YWT, YXU, YYZ Co-Frequency Interference: 108.2(BAX, FBC) </p>	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	Database	NO	0.541	Enabled	79.9%	83.2%
2	YQG	N 42° 14' 59.00" W 82° 49' 44.20" 06 W	H	Database	NO	0.525	Enabled	53.0%	52.0%
3	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H + ESV	User	NO	0.443	Enabled	18.9%	21.5%
4	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	0.496	Enabled	10.8%	12.1%
5	JXN	N 42° 15' 33.27" W 84° 27' 30.77" 05 W	L	Database	NO	0.443	Enabled	7.4%	8.6%
6	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	User	NO	0.443	Enabled	10.1%	11.8%
7	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L + ESV	User	NO	0.443	Enabled	0.5%	0.5%
	Total Coverage							90.3%	94.8%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0									
1.7		CRL	SVM	YQG					
3.4		CRL	SVM	YQG	DXO				
9.0		CRL	SVM	YQG	JXN	DXO			
17.7		CRL	SVM	JXN	DXO				
23.5		CRL	SVM	YQG	PSI	DXO		JXN	
42.2		CRL	SVM	YQG	PSI	MBS		DXO	
Inertial Drift Segments									
#	Start Location			End Location				Length [NM]	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW22R(AER)	RW04L(DER)	
RW04L(DER)	GH22R:	CRL, SVM, and YQG
GH22R:	FORDZ	CRL, DXO, SVM, and YQG
FORDZ	CORVE	CRL, DXO, JXN, SVM, and YQG
CORVE	FRBRD	CRL, DXO, JXN, and SVM
FRBRD	DINGL	CRL, DXO, PSI, SVM, YQG, and JXN*
DINGL	FLOKA	CRL, PSI, MBS, SVM, YQG, DXO*, and FNT*

User Data					Return To Summary		
User Data Files							
#	File Name						
1	ZETTR_DKK_ESV.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

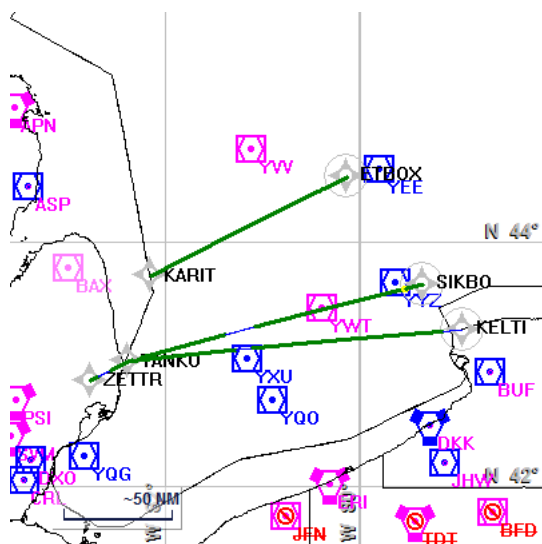
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H	625.1	116.10	ASP	Not Used
Restriction:		Bearing [True]: 293.0° to 13.0° Bearing [Mag]: 300.0° to 20.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
ESV:		Bearing [True]: 77.0° to 171.0° Bearing [Mag]: 84.0° to 178.0°			Arc Distance: Out to 106.0 NM Altitude: 8600.0 to 20000.0 ft		
ESV:		Bearing [True]: 86.0° to 114.0° Bearing [Mag]: 93.0° to 121.0°			Arc Distance: Out to 130.0 NM Altitude: 13100.0 to 20000.0 ft		
72	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H	771.5	116.90	FNT	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 223.0° to 303.0° Bearing [Mag]: 229.0° to 309.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 304.0° to 222.0° Bearing [Mag]: 310.0° to 228.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
ESV:		Bearing [True]: 44.0° to 62.0° Bearing [Mag]: 50.0° to 68.0°			Arc Distance: Out to 123.0 NM Altitude: 11900.0 to 20000.0 ft		
ESV:		Bearing [True]: 53.0° to 62.0° Bearing [Mag]: 59.0° to 68.0°			Arc Distance: Out to 131.0 NM Altitude: 13500.0 to 45000.0 ft		
ESV:		Bearing [True]: 76.0° to 87.0° Bearing [Mag]: 82.0° to 93.0°			Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L	662.5	112.90	MBS	Used
Restriction:		Bearing [True]: 189.0° to 197.0° Bearing [Mag]: 192.0° to 200.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 63.0° to 80.0° Bearing [Mag]: 66.0° to 83.0°			Arc Distance: Out to 114.0 NM Altitude: 11900.0 to 17000.0 ft		
ESV:		Bearing [True]: 68.0° to 138.0° Bearing [Mag]: 71.0° to 141.0°			Arc Distance: Out to 94.0 NM Altitude: 8800.0 to 15000.0 ft		
ESV:		Bearing [True]: 68.0° to 80.0° Bearing [Mag]: 71.0° to 83.0°			Arc Distance: Out to 121.0 NM Altitude: 13200.0 to 15000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Used
Restriction:		Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
75	APN	N 45° 4' 58.04" W 83° 33' 22.43" 07 W	L	675.7	108.80	APN	Not Used
Restriction:		Bearing [True]: 253.0° to 273.0° Bearing [Mag]: 260.0° to 280.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
ESV:		Bearing [True]: 101.0° to 141.0° Bearing [Mag]: 108.0° to 148.0°			Arc Distance: Out to 104.0 NM Altitude: 11900.0 to 14000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	BUF	N 42° 55' 44.39" W 78° 38' 46.83" 08 W	H	729.4	116.40	BUF	Not Used
Restriction:		Bearing [True]: 254.0° to 267.0° Bearing [Mag]: 262.0° to 275.0°			Distance: Beyond 0.0 NM Altitude: Below 2300.0 ft		
Restriction:		Bearing [True]: 268.0° to 27.0° Bearing [Mag]: 276.0° to 35.0°			Distance: Beyond 0.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 28.0° to 253.0° Bearing [Mag]: 36.0° to 261.0°			Distance: Beyond 0.0 NM Altitude: Below 11000.0 ft		
ESV:		Bearing [True]: 301.0° to 318.0° Bearing [Mag]: 309.0° to 326.0°			Arc Distance: Out to 134.0 NM Altitude: 14000.0 to 45000.0 ft		
ESV:		Bearing [True]: 258.0° to 324.0° Bearing [Mag]: 266.0° to 332.0°			Arc Distance: Out to 103.0 NM Altitude: 9900.0 to 20000.0 ft		
77	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 27.0° to 39.0° Bearing [Mag]: 33.0° to 45.0°			Arc Distance: Out to 126.0 NM Altitude: 12300.0 to 20000.0 ft		
ESV:		Bearing [True]: 27.0° to 67.0° Bearing [Mag]: 33.0° to 73.0°			Arc Distance: Out to 84.0 NM Altitude: 7000.0 to 20000.0 ft		
78	JHW	N 42° 11' 18.99" W 79° 7' 16.70" 07 W	H	1786.0	114.70	JHW	Not Used
ESV:		Bearing [True]: 294.0° to 359.0° Bearing [Mag]: 301.0° to 6.0°			Arc Distance: Out to 110.0 NM Altitude: 9900.0 to 18000.0 ft		
79	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
ESV:		Bearing [True]: 42.0° to 55.0° Bearing [Mag]: 45.0° to 58.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	ERI	N 42° 1' 2.63" W 80° 17' 33.71" 06 W	L	797.0	109.40	ERI	Not Used
Restriction:		Bearing [True]: 104.0° to 174.0° Bearing [Mag]: 110.0° to 180.0°			Distance: Beyond 25.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 244.0° to 268.0° Bearing [Mag]: 250.0° to 274.0°			Distance: Beyond 20.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 175.0° to 243.0° Bearing [Mag]: 181.0° to 249.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 289.0° to 309.0° Bearing [Mag]: 295.0° to 315.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 70.0° to 103.0° Bearing [Mag]: 76.0° to 109.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
ESV:		Bearing [True]: 281.0° to 74.0° Bearing [Mag]: 287.0° to 80.0°			Arc Distance: Out to 90.0 NM Altitude: 7000.0 to 20000.0 ft		
ESV:		Bearing [True]: 2.0° to 19.0° Bearing [Mag]: 8.0° to 25.0°			Arc Distance: Out to 101.0 NM Altitude: 19000.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
81	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
		ESV:	Bearing [True]: 339.0° to 359.0° Bearing [Mag]: 344.0° to 4.0°		Arc Distance: Out to 110.0 NM Altitude: 10000.0 to 20000.0 ft		
82	DKK	N 42° 29' 26.04" W 79° 16' 26.75" 07 W	H	680.0	116.20	DKK	Not Used
		Restriction:	Bearing [True]: 163.0° to 183.0° Bearing [Mag]: 170.0° to 190.0°		Distance: Beyond 17.0 NM Altitude: Below 7500.0 ft		
		Restriction:	Bearing [True]: 199.0° to 228.0° Bearing [Mag]: 206.0° to 235.0°		Distance: Beyond 17.0 NM Altitude: Below 4500.0 ft		
		Restriction:	Bearing [True]: 184.0° to 198.0° Bearing [Mag]: 191.0° to 205.0°		Distance: Beyond 17.0 NM Altitude: Below 5500.0 ft		
		Restriction:	Bearing [True]: 93.0° to 162.0° Bearing [Mag]: 100.0° to 169.0°		Distance: Beyond 17.0 NM Altitude: Below 4700.0 ft		
		Restriction:	Bearing [True]: 353.0° to 353.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		ESV:	Bearing [True]: 316.0° to 335.0° Bearing [Mag]: 323.0° to 342.0°		Arc Distance: Out to 133.0 NM Altitude: 13700.0 to 45000.0 ft		
		ESV:	Bearing [True]: 316.0° to 359.0° Bearing [Mag]: 323.0° to 6.0°		Arc Distance: Out to 80.0 NM Altitude: 10000.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: DTW ZETTR SID
Output File: KDTW ZETTR1 SID KARIT ETBOX 20171113_1101
Procedure Name: ZETTR1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 11/13/2017 11:05:29 AM
Input File: KDTW ZETTR1 SID KARIT ETBOX 20170724_1322.txt
Databases: AIRNAV Date: 10/27/2017
 CIPF Date: 7/20/2017
 DTED® (MAX) Date: 2002

Results Summary:

Flyability



DME/DME



No Critical DMEs Exist

Radars

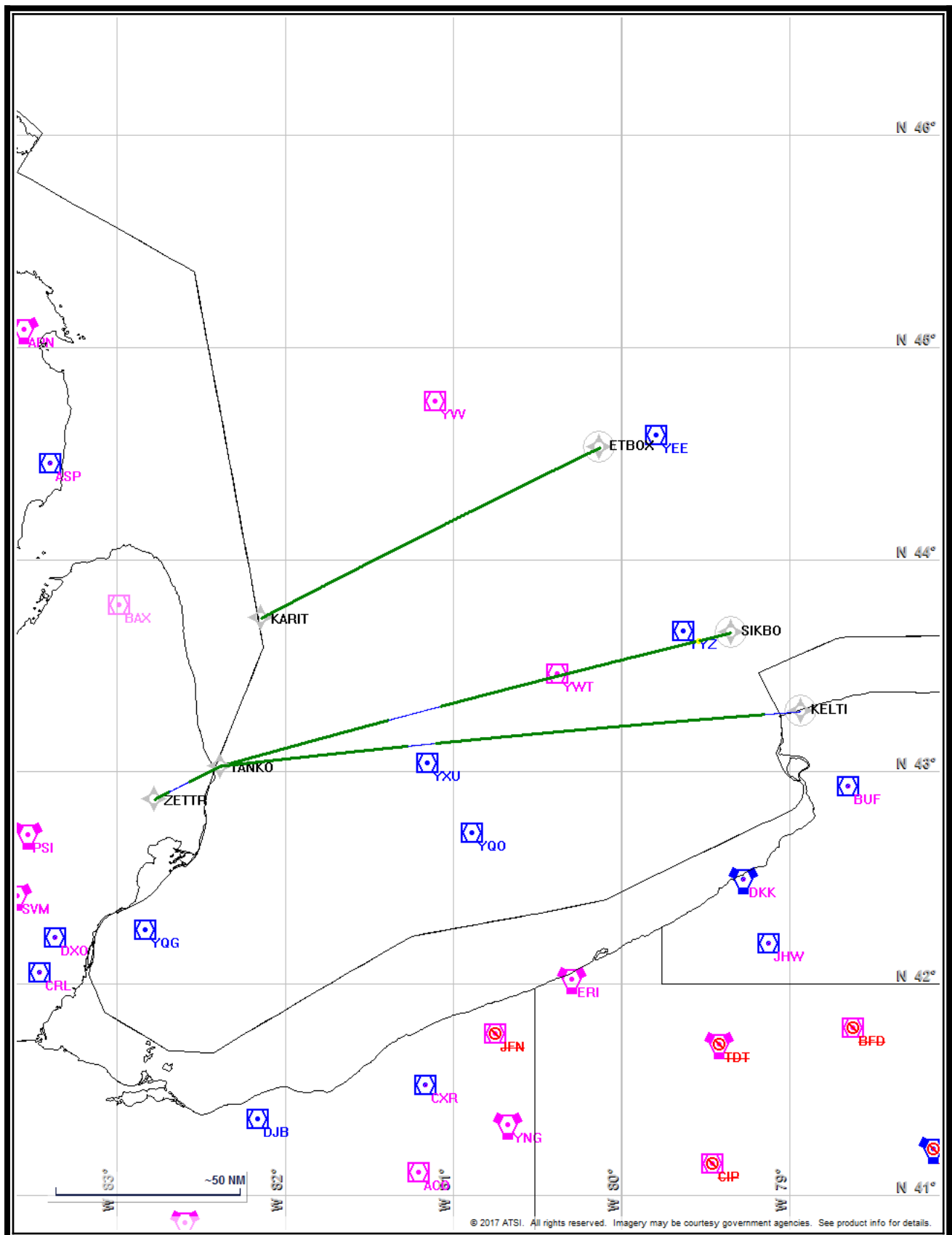


Comms



TERPS

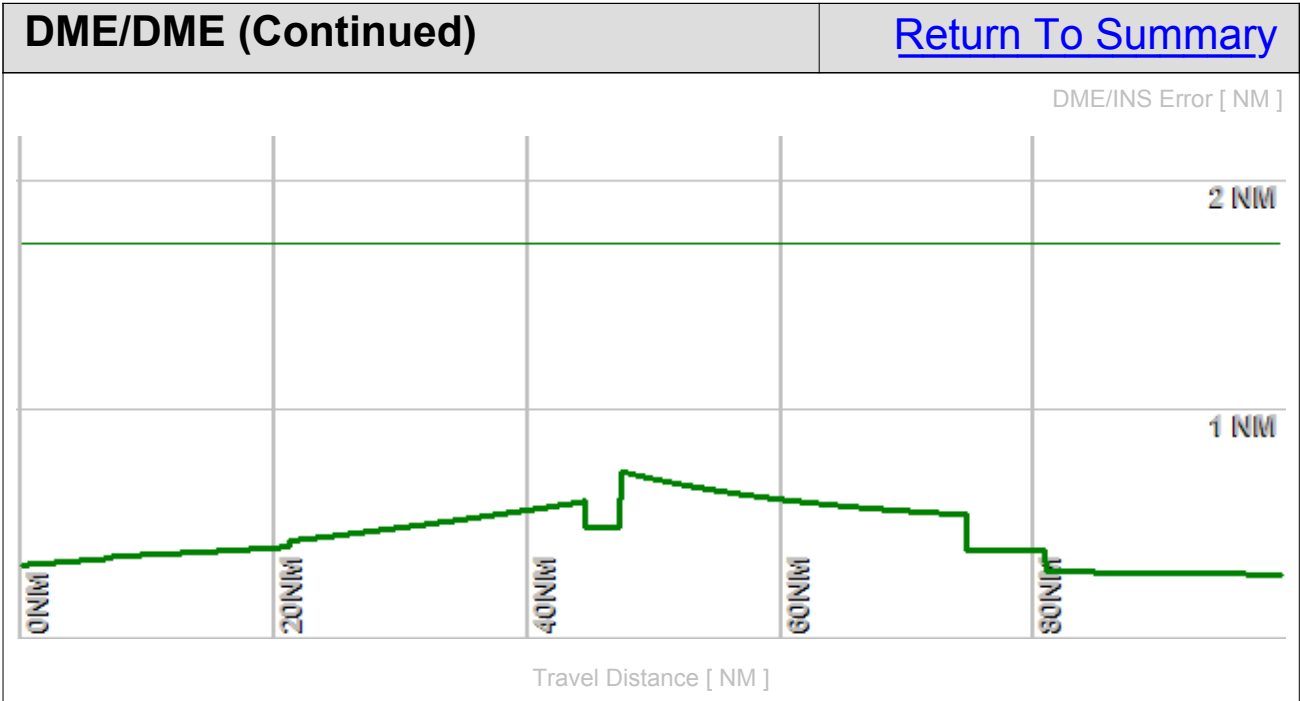




Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
KARIT	WP	N 43° 43' 23.00" W 82° 8' 40.00"	12000.0	VNAV	210.0	Fly By	TF
ETBOX	WP	N 44° 31' 37.00" W 80° 7' 47.00"	16000.0	VNAV	210.0	Fly Over	TF

Flyability		Return To Summary
Settings:	Flight Type: Departure Transition Selected Airport: KDTW Aircraft Category: Cat D Climb Gradient: <i>None assigned</i> Ground Speeds: Table: 200.0 Kts up to 11000.0 ft 240.0 Kts up to 18000.0 ft 260.0 Kts up to 24000.0 ft 340.0 Kts up to 99900.0 ft Wind Settings: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
Entire track is fly-able		

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.558 NM INS Drift Rate: 8.000 NM/Hour Range Mode: OSV Co-Frequencies: Evaluated RNP Edges: Evaluated Min DME Range: 3.0 NM Allowed Gap Length: 4.0 NM DME Types: VOR/DME, VORTAC, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated </p>
	<p> Total Number of DMEs Used: 6 Maximum DME Error: 0.732 NM. No Critical DMEs were found. Available DMEs: ASP, FNT, MBS, DXO, DKK, BUF, YEE, YYZ, YXU Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV Foreign DMEs within range: UTR, UYB, YCF, YEE, YQG, YQO, YSB, YVV, YWT, YXI, YXU, YYZ, YOW </p>



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H + ESV	User	NO	1.414	Enabled	72.2%	72.2%
2	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H + ESV	User	NO	1.041	Enabled	33.4%	33.4%
3	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H + ESV	User	NO	0.732	Enabled	14.1%	14.1%
4	DKK	N 42° 29' 26.04" W 79° 16' 26.75" 07 W	H + ESV	User	NO	1.231	Enabled	36.6%	36.6%
5	YEE	N 44° 34' 54.13" W 79° 47' 35.36" 10 W	H	Database	NO	0.732	Enabled	25.0%	25.0%
6	YYZ	N 43° 39' 28.87" W 79° 37' 53.15" 10 W	H	Database	NO	0.732	Enabled	18.7%	18.7%
	Total Coverage							100.0%	100.0%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0		FNT	ASP	DXO	MBS				
44.5		FNT	ASP	DKK	BUF				
74.6		YEE	ASP	DKK	BUF		YYZ	YXU	
85.5		YEE	YYZ	YXU					

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
KARIT	ETBOX	DKK, DXO, BUF, MBS, FNT, ASP, YEE, YXU, and YYZ

User Data					Return To Summary		
User Data Files							
#	File Name						
1	ZETTR_DKK_ESV.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

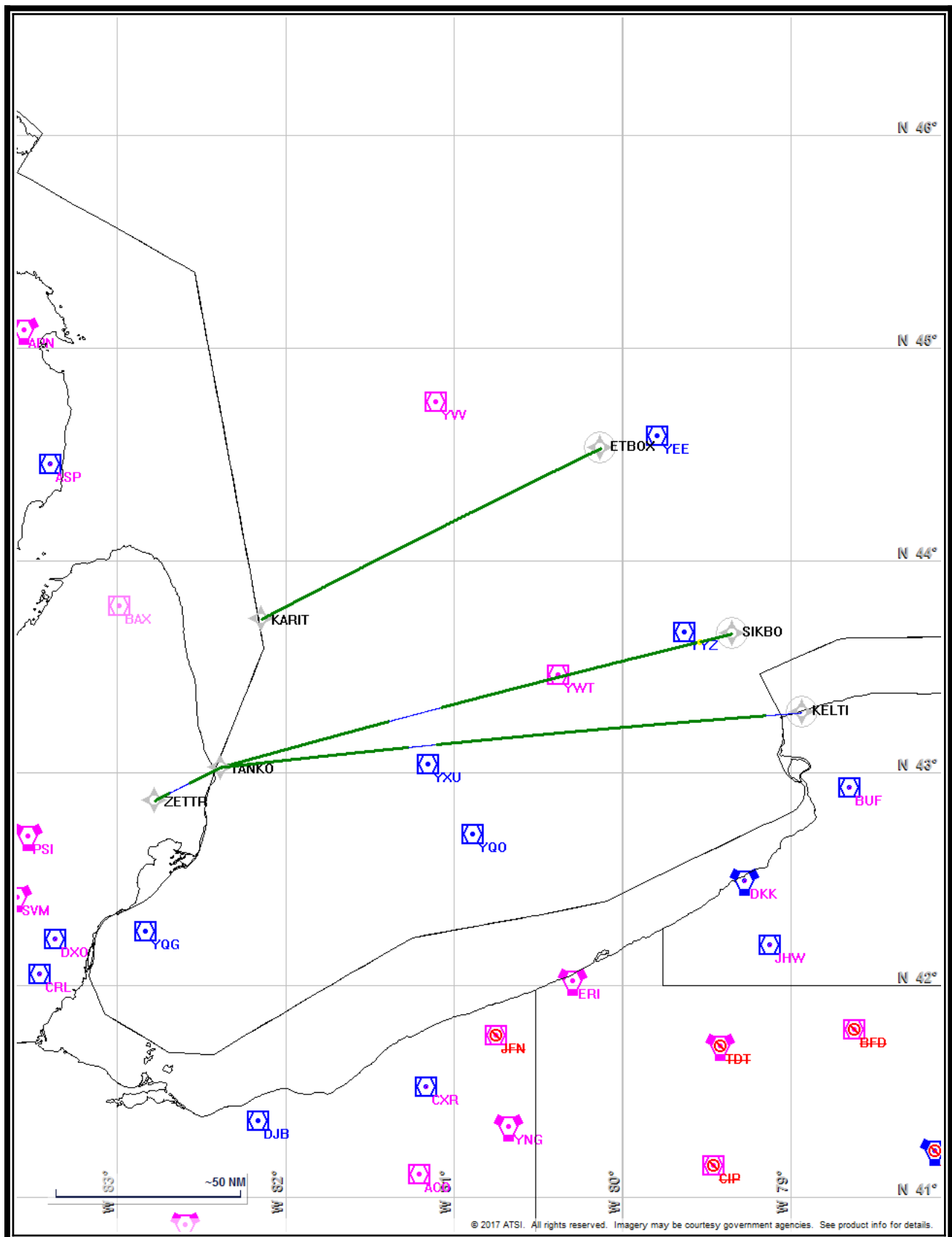
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H	625.1	116.10	ASP	Used
Restriction:		Bearing [True]: 293.0° to 13.0° Bearing [Mag]: 300.0° to 20.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
ESV:		Bearing [True]: 77.0° to 171.0° Bearing [Mag]: 84.0° to 178.0°			Arc Distance: Out to 106.0 NM Altitude: 8600.0 to 20000.0 ft		
ESV:		Bearing [True]: 86.0° to 114.0° Bearing [Mag]: 93.0° to 121.0°			Arc Distance: Out to 130.0 NM Altitude: 13100.0 to 20000.0 ft		
72	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H	771.5	116.90	FNT	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 223.0° to 303.0° Bearing [Mag]: 229.0° to 309.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 304.0° to 222.0° Bearing [Mag]: 310.0° to 228.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
ESV:		Bearing [True]: 44.0° to 62.0° Bearing [Mag]: 50.0° to 68.0°			Arc Distance: Out to 123.0 NM Altitude: 11900.0 to 20000.0 ft		
ESV:		Bearing [True]: 53.0° to 62.0° Bearing [Mag]: 59.0° to 68.0°			Arc Distance: Out to 131.0 NM Altitude: 13500.0 to 45000.0 ft		
ESV:		Bearing [True]: 76.0° to 87.0° Bearing [Mag]: 82.0° to 93.0°			Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L	662.5	112.90	MBS	Not Used
Restriction:		Bearing [True]: 189.0° to 197.0° Bearing [Mag]: 192.0° to 200.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 63.0° to 80.0° Bearing [Mag]: 66.0° to 83.0°			Arc Distance: Out to 114.0 NM Altitude: 11900.0 to 17000.0 ft		
ESV:		Bearing [True]: 68.0° to 138.0° Bearing [Mag]: 71.0° to 141.0°			Arc Distance: Out to 94.0 NM Altitude: 8800.0 to 15000.0 ft		
ESV:		Bearing [True]: 68.0° to 80.0° Bearing [Mag]: 71.0° to 83.0°			Arc Distance: Out to 121.0 NM Altitude: 13200.0 to 15000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Not Used
Restriction:		Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
75	APN	N 45° 4' 58.04" W 83° 33' 22.43" 07 W	L	675.7	108.80	APN	Not Used
Restriction:		Bearing [True]: 253.0° to 273.0° Bearing [Mag]: 260.0° to 280.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
ESV:		Bearing [True]: 101.0° to 141.0° Bearing [Mag]: 108.0° to 148.0°			Arc Distance: Out to 104.0 NM Altitude: 11900.0 to 14000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	BUF	N 42° 55' 44.39" W 78° 38' 46.83" 08 W	H	729.4	116.40	BUF	Not Used
Restriction:		Bearing [True]: 254.0° to 267.0° Bearing [Mag]: 262.0° to 275.0°			Distance: Beyond 0.0 NM Altitude: Below 2300.0 ft		
Restriction:		Bearing [True]: 268.0° to 27.0° Bearing [Mag]: 276.0° to 35.0°			Distance: Beyond 0.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 28.0° to 253.0° Bearing [Mag]: 36.0° to 261.0°			Distance: Beyond 0.0 NM Altitude: Below 11000.0 ft		
ESV:		Bearing [True]: 301.0° to 318.0° Bearing [Mag]: 309.0° to 326.0°			Arc Distance: Out to 134.0 NM Altitude: 14000.0 to 45000.0 ft		
ESV:		Bearing [True]: 258.0° to 324.0° Bearing [Mag]: 266.0° to 332.0°			Arc Distance: Out to 103.0 NM Altitude: 9900.0 to 20000.0 ft		
77	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 27.0° to 39.0° Bearing [Mag]: 33.0° to 45.0°			Arc Distance: Out to 126.0 NM Altitude: 12300.0 to 20000.0 ft		
ESV:		Bearing [True]: 27.0° to 67.0° Bearing [Mag]: 33.0° to 73.0°			Arc Distance: Out to 84.0 NM Altitude: 7000.0 to 20000.0 ft		
78	JHW	N 42° 11' 18.99" W 79° 7' 16.70" 07 W	H	1786.0	114.70	JHW	Not Used
ESV:		Bearing [True]: 294.0° to 359.0° Bearing [Mag]: 301.0° to 6.0°			Arc Distance: Out to 110.0 NM Altitude: 9900.0 to 18000.0 ft		
79	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Not Used
ESV:		Bearing [True]: 42.0° to 55.0° Bearing [Mag]: 45.0° to 58.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	ERI	N 42° 1' 2.63" W 80° 17' 33.71" 06 W	L	797.0	109.40	ERI	Not Used
Restriction:		Bearing [True]: 104.0° to 174.0° Bearing [Mag]: 110.0° to 180.0°			Distance: Beyond 25.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 244.0° to 268.0° Bearing [Mag]: 250.0° to 274.0°			Distance: Beyond 20.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 175.0° to 243.0° Bearing [Mag]: 181.0° to 249.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 289.0° to 309.0° Bearing [Mag]: 295.0° to 315.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 70.0° to 103.0° Bearing [Mag]: 76.0° to 109.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
ESV:		Bearing [True]: 281.0° to 74.0° Bearing [Mag]: 287.0° to 80.0°			Arc Distance: Out to 90.0 NM Altitude: 7000.0 to 20000.0 ft		
ESV:		Bearing [True]: 2.0° to 19.0° Bearing [Mag]: 8.0° to 25.0°			Arc Distance: Out to 101.0 NM Altitude: 19000.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
81	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
		ESV:	Bearing [True]: 339.0° to 359.0° Bearing [Mag]: 344.0° to 4.0°		Arc Distance: Out to 110.0 NM Altitude: 10000.0 to 20000.0 ft		
82	DKK	N 42° 29' 26.04" W 79° 16' 26.75" 07 W	H	680.0	116.20	DKK	Used
		Restriction:	Bearing [True]: 163.0° to 183.0° Bearing [Mag]: 170.0° to 190.0°		Distance: Beyond 17.0 NM Altitude: Below 7500.0 ft		
		Restriction:	Bearing [True]: 199.0° to 228.0° Bearing [Mag]: 206.0° to 235.0°		Distance: Beyond 17.0 NM Altitude: Below 4500.0 ft		
		Restriction:	Bearing [True]: 184.0° to 198.0° Bearing [Mag]: 191.0° to 205.0°		Distance: Beyond 17.0 NM Altitude: Below 5500.0 ft		
		Restriction:	Bearing [True]: 93.0° to 162.0° Bearing [Mag]: 100.0° to 169.0°		Distance: Beyond 17.0 NM Altitude: Below 4700.0 ft		
		Restriction:	Bearing [True]: 353.0° to 353.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		ESV:	Bearing [True]: 316.0° to 335.0° Bearing [Mag]: 323.0° to 342.0°		Arc Distance: Out to 133.0 NM Altitude: 13700.0 to 45000.0 ft		
		ESV:	Bearing [True]: 316.0° to 359.0° Bearing [Mag]: 323.0° to 6.0°		Arc Distance: Out to 80.0 NM Altitude: 10000.0 to 16000.0 ft		

Databases: AIRNAV Date: 10/27/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

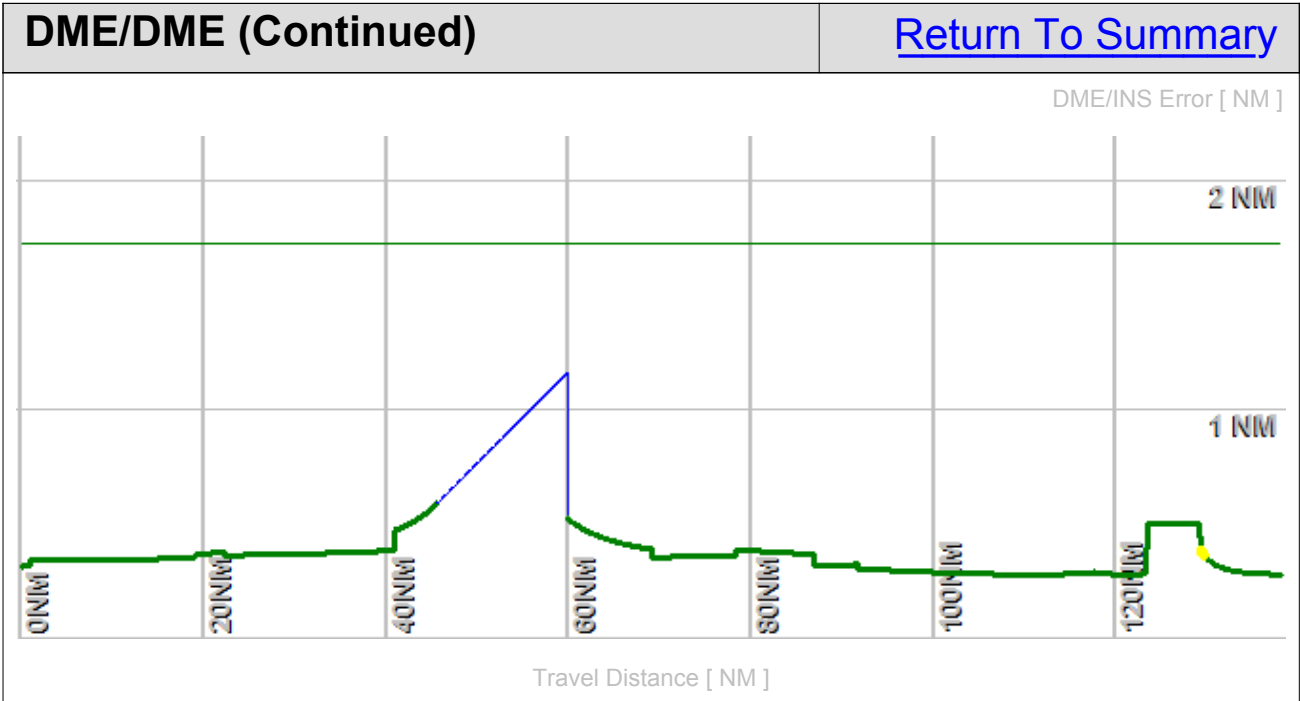
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Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
TANKO	WP	N 43° 1' 32.48" W 82° 23' 2.38"	10000.0	VNAV	180.0	Fly By	TF
SIKBO	WP	N 43° 39' 13.00" W 79° 20' 57.00"	10000.0	VNAV	180.0	Fly Over	TF

Flyability		Return To Summary
Settings:	Flight Type: Departure Transition	
	Selected Airport: KDTW	
	Aircraft Category: Cat D	
	Climb Gradient: <i>None assigned</i>	
	Ground Speeds:	
	Table:	
	<div><div>200.0 Kts up to 11000.0 ft</div><div>240.0 Kts up to 18000.0 ft</div><div>260.0 Kts up to 24000.0 ft</div><div>340.0 Kts up to 99900.0 ft</div></div>	
	Wind Settings: <i>None assigned</i>	
	Descent During a Turn: Allowed	
	VNAV Mode: Flight Plan	
Entire track is fly-able		

DME/DME	Return To Summary
Settings:	<p>RNP: 2.0</p> <p>Flight Mode: Manual</p> <p>Line of Sight (DTED Level 0 Max): Evaluated</p> <p>DME Restrictions: Evaluated</p> <p>Inertial Drift: Enabled</p> <p> Initial Drift: 0.558 NM</p> <p> INS Drift Rate: 8.000 NM/Hour</p> <p>Range Mode: OSV</p> <p>Co-Frequencies: Evaluated</p> <p>RNP Edges: Evaluated</p> <p>Min DME Range: 3.0 NM</p> <p>Allowed Gap Length: 4.0 NM</p> <p>DME Types: VOR/DME, VORTAC, Standalone, and User</p> <p>DME Include Angles: 30 to 150</p> <p>Critical DMEs: Allowed</p> <p>DoD Facilities: Not included</p> <p>Foreign Facilities: Included</p> <p>Low DMEs: Included</p> <p>Terminal DMEs: Included</p> <p>Flight Check DMEs: Selected</p> <p>Higher Altitudes: Evaluated</p> <p>Near Maximum Altitude: Evaluated</p>
<p>Total Number of DMEs Used: 11</p> <p>Maximum DME Error: 1.161 NM.</p> <p>No Critical DMEs were found.</p> <p>Available DMEs: ASP, MBS, DXO, FNT, CRL, YXU, CXR, ERI, BUF, YYZ, DKK</p> <p>Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV</p> <p>Foreign DMEs within range: UTR, UYB, YCF, YEE, YQG, YQO, YSB, YVV, YWT, YXU, YYZ, YXI, YOW</p>	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L + ESV	User	NO	1.161	Enabled	0.6%	0.6%
2	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H + ESV	User	NO	1.161	Enabled	13.8%	13.8%
3	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H + ESV	User	NO	1.161	Enabled	15.5%	15.5%
4	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	1.161	Enabled	2.3%	2.3%
5	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H + ESV	User	NO	1.161	Enabled	13.6%	13.6%
6	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H + ESV	User	NO	1.238	Enabled	16.9%	16.9%
7	YXU	N 43° 2' 16.48" W 81° 8' 56.15" 08 W	H	Database	NO	1.515	Enabled	16.7%	16.7%
8	ERI	N 42° 1' 2.63" W 80° 17' 33.71" 06 W	L + ESV	User	NO	1.535	Enabled	16.4%	16.4%
9	BUF	N 42° 55' 44.39" W 78° 38' 46.83" 08 W	H + ESV	User	NO	1.161	Enabled	21.2%	21.2%
10	YYZ	N 43° 39' 28.87" W 79° 37' 53.15" 10 W	H	Database	NO	1.161	Enabled	32.8%	32.8%
11	DKK	N 42° 29' 26.04" W 79° 16' 26.75" 07 W	H + ESV	User	NO	1.161	Enabled	29.5%	29.5%
	Total Coverage							89.7%	89.7%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0		DXO	MBS	ASP	FNT	CRL			
16.9		DXO	CXR	ASP	FNT	CRL	YXU		
29.8		YXU	CXR	FNT					
52.9		YXU	ERI	BUF	YYZ	DKK			
Inertial Drift Segments									
#	Start Location			End Location			Length [NM]		

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
TANKO	SIKBO	DKK, CXR, ERI, CRL, DXO, BUF, MBS, FNT, ASP, YXU, and YYZ

User Data					Return To Summary		
User Data Files							
#	File Name						
1	ZETTR_DKK_ESV.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

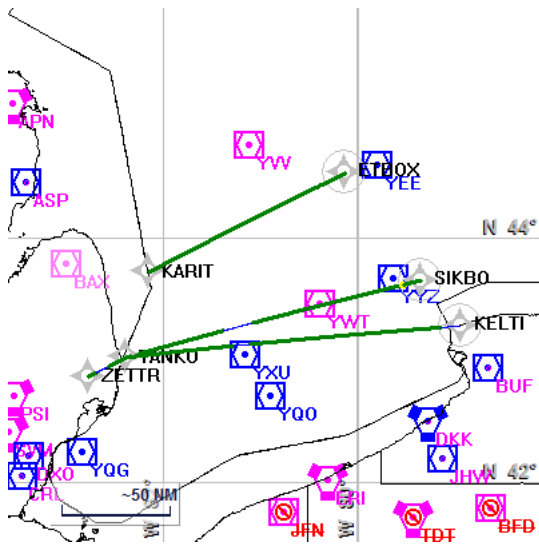
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H	625.1	116.10	ASP	Used
Restriction:		Bearing [True]: 293.0° to 13.0° Bearing [Mag]: 300.0° to 20.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
ESV:		Bearing [True]: 77.0° to 171.0° Bearing [Mag]: 84.0° to 178.0°			Arc Distance: Out to 106.0 NM Altitude: 8600.0 to 20000.0 ft		
ESV:		Bearing [True]: 86.0° to 114.0° Bearing [Mag]: 93.0° to 121.0°			Arc Distance: Out to 130.0 NM Altitude: 13100.0 to 20000.0 ft		
72	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H	771.5	116.90	FNT	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 223.0° to 303.0° Bearing [Mag]: 229.0° to 309.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 304.0° to 222.0° Bearing [Mag]: 310.0° to 228.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
ESV:		Bearing [True]: 44.0° to 62.0° Bearing [Mag]: 50.0° to 68.0°			Arc Distance: Out to 123.0 NM Altitude: 11900.0 to 20000.0 ft		
ESV:		Bearing [True]: 53.0° to 62.0° Bearing [Mag]: 59.0° to 68.0°			Arc Distance: Out to 131.0 NM Altitude: 13500.0 to 45000.0 ft		
ESV:		Bearing [True]: 76.0° to 87.0° Bearing [Mag]: 82.0° to 93.0°			Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L	662.5	112.90	MBS	Used
Restriction:		Bearing [True]: 189.0° to 197.0° Bearing [Mag]: 192.0° to 200.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 63.0° to 80.0° Bearing [Mag]: 66.0° to 83.0°			Arc Distance: Out to 114.0 NM Altitude: 11900.0 to 17000.0 ft		
ESV:		Bearing [True]: 68.0° to 138.0° Bearing [Mag]: 71.0° to 141.0°			Arc Distance: Out to 94.0 NM Altitude: 8800.0 to 15000.0 ft		
ESV:		Bearing [True]: 68.0° to 80.0° Bearing [Mag]: 71.0° to 83.0°			Arc Distance: Out to 121.0 NM Altitude: 13200.0 to 15000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Not Used
Restriction:		Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
75	APN	N 45° 4' 58.04" W 83° 33' 22.43" 07 W	L	675.7	108.80	APN	Not Used
Restriction:		Bearing [True]: 253.0° to 273.0° Bearing [Mag]: 260.0° to 280.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
ESV:		Bearing [True]: 101.0° to 141.0° Bearing [Mag]: 108.0° to 148.0°			Arc Distance: Out to 104.0 NM Altitude: 11900.0 to 14000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	BUF	N 42° 55' 44.39" W 78° 38' 46.83" 08 W	H	729.4	116.40	BUF	Used
Restriction:		Bearing [True]: 254.0° to 267.0° Bearing [Mag]: 262.0° to 275.0°			Distance: Beyond 0.0 NM Altitude: Below 2300.0 ft		
Restriction:		Bearing [True]: 268.0° to 27.0° Bearing [Mag]: 276.0° to 35.0°			Distance: Beyond 0.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 28.0° to 253.0° Bearing [Mag]: 36.0° to 261.0°			Distance: Beyond 0.0 NM Altitude: Below 11000.0 ft		
ESV:		Bearing [True]: 301.0° to 318.0° Bearing [Mag]: 309.0° to 326.0°			Arc Distance: Out to 134.0 NM Altitude: 14000.0 to 45000.0 ft		
ESV:		Bearing [True]: 258.0° to 324.0° Bearing [Mag]: 266.0° to 332.0°			Arc Distance: Out to 103.0 NM Altitude: 9900.0 to 20000.0 ft		
77	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 27.0° to 39.0° Bearing [Mag]: 33.0° to 45.0°			Arc Distance: Out to 126.0 NM Altitude: 12300.0 to 20000.0 ft		
ESV:		Bearing [True]: 27.0° to 67.0° Bearing [Mag]: 33.0° to 73.0°			Arc Distance: Out to 84.0 NM Altitude: 7000.0 to 20000.0 ft		
78	JHW	N 42° 11' 18.99" W 79° 7' 16.70" 07 W	H	1786.0	114.70	JHW	Not Used
ESV:		Bearing [True]: 294.0° to 359.0° Bearing [Mag]: 301.0° to 6.0°			Arc Distance: Out to 110.0 NM Altitude: 9900.0 to 18000.0 ft		
79	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
ESV:		Bearing [True]: 42.0° to 55.0° Bearing [Mag]: 45.0° to 58.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	ERI	N 42° 1' 2.63" W 80° 17' 33.71" 06 W	L	797.0	109.40	ERI	Used
Restriction:		Bearing [True]: 104.0° to 174.0° Bearing [Mag]: 110.0° to 180.0°			Distance: Beyond 25.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 244.0° to 268.0° Bearing [Mag]: 250.0° to 274.0°			Distance: Beyond 20.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 175.0° to 243.0° Bearing [Mag]: 181.0° to 249.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 289.0° to 309.0° Bearing [Mag]: 295.0° to 315.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 70.0° to 103.0° Bearing [Mag]: 76.0° to 109.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
ESV:		Bearing [True]: 281.0° to 74.0° Bearing [Mag]: 287.0° to 80.0°			Arc Distance: Out to 90.0 NM Altitude: 7000.0 to 20000.0 ft		
ESV:		Bearing [True]: 2.0° to 19.0° Bearing [Mag]: 8.0° to 25.0°			Arc Distance: Out to 101.0 NM Altitude: 19000.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
81	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Used
		ESV:	Bearing [True]: 339.0° to 359.0° Bearing [Mag]: 344.0° to 4.0°			Arc Distance: Out to 110.0 NM Altitude: 10000.0 to 20000.0 ft	
82	DKK	N 42° 29' 26.04" W 79° 16' 26.75" 07 W	H	680.0	116.20	DKK	Used
		Restriction:	Bearing [True]: 163.0° to 183.0° Bearing [Mag]: 170.0° to 190.0°			Distance: Beyond 17.0 NM Altitude: Below 7500.0 ft	
		Restriction:	Bearing [True]: 199.0° to 228.0° Bearing [Mag]: 206.0° to 235.0°			Distance: Beyond 17.0 NM Altitude: Below 4500.0 ft	
		Restriction:	Bearing [True]: 184.0° to 198.0° Bearing [Mag]: 191.0° to 205.0°			Distance: Beyond 17.0 NM Altitude: Below 5500.0 ft	
		Restriction:	Bearing [True]: 93.0° to 162.0° Bearing [Mag]: 100.0° to 169.0°			Distance: Beyond 17.0 NM Altitude: Below 4700.0 ft	
		Restriction:	Bearing [True]: 353.0° to 353.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft	
		ESV:	Bearing [True]: 316.0° to 335.0° Bearing [Mag]: 323.0° to 342.0°			Arc Distance: Out to 133.0 NM Altitude: 13700.0 to 45000.0 ft	



Name: Paul Jackson
Project Name: DTW ZETTR SID
Output File: KDTW ZETTR1 SID ZETTR KELTI 20171113_1101
Procedure Name: ZETTR1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 11/13/2017 11:11:19 AM
Input File: [KDTW ZETTR1 SID ZETTR KELTI 20170724_1349.txt](#)
Databases: AIRNAV Date: 10/27/2017
 CIPF Date: 7/20/2017
 DTED® (MAX) Date: 2002

Results Summary:

Flyability



DME/DME



No Critical DMEs Exist

Radars

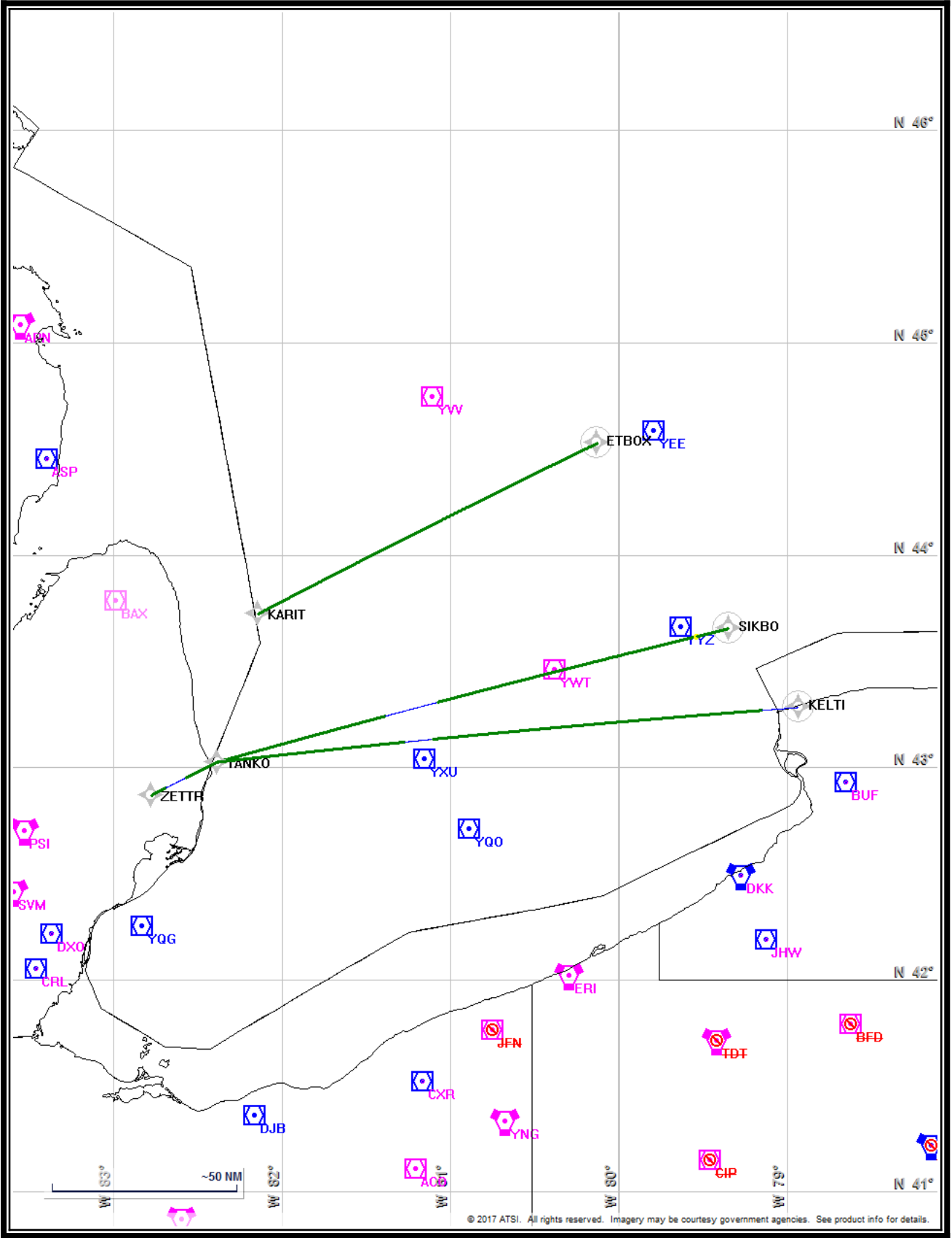


Comms



TERPS

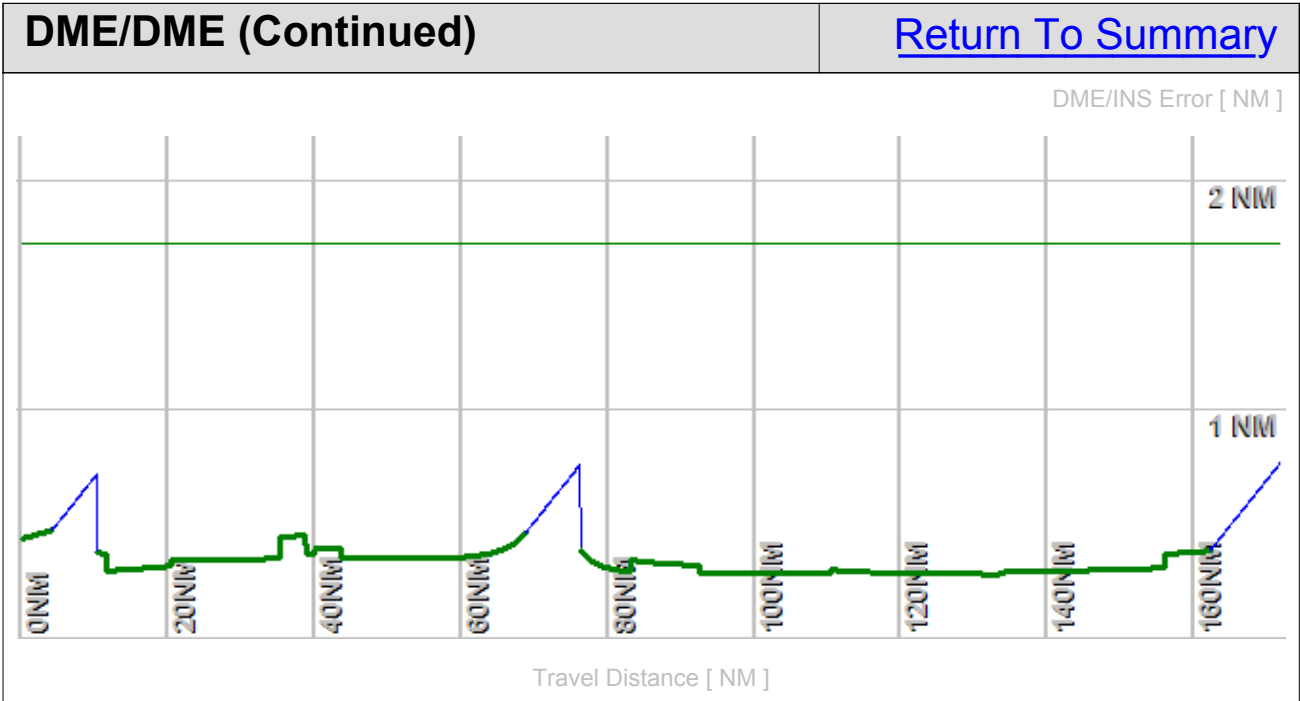




Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
ZETTR	WP	N 42° 52' 11.06" W 82° 46' 30.61"	7000.0	VNAV	145.0	Fly By	TF
TANKO	WP	N 43° 1' 32.48" W 82° 23' 2.38"	10000.0	VNAV	180.0	Fly By	TF
KELTI	WP	N 43° 16' 57.00" W 78° 56' 0.00"	10000.0	VNAV	180.0	Fly Over	TF

Flyability		Return To Summary
Settings:	Flight Type: Departure Transition	
	Selected Airport: KDTW	
	Aircraft Category: Cat D	
	Climb Gradient: <i>None assigned</i>	
	Ground Speeds:	
	Table:	
	200.0 Kts up to 11000.0 ft	
	240.0 Kts up to 18000.0 ft	
	260.0 Kts up to 24000.0 ft	
	340.0 Kts up to 99900.0 ft	
	Wind Settings: <i>None assigned</i>	
	Descent During a Turn: Allowed	
	VNAV Mode: Flight Plan	
Entire track is fly-able		

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.558 NM INS Drift Rate: 8.000 NM/Hour Range Mode: OSV Co-Frequencies: Evaluated RNP Edges: Evaluated Min DME Range: 3.0 NM Allowed Gap Length: 4.0 NM DME Types: VOR/DME, VORTAC, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated </p>
<p>Total Number of DMEs Used: 12</p> <p>Maximum DME Error: 0.772 NM.</p> <p>No Critical DMEs were found.</p> <p>Available DMEs: PSI, DXO, ASP, MBS, CRL, YXU, CXR, ERI, YQO, BUF, YYZ, DKK, JHW</p> <p>Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV</p> <p>Foreign DMEs within range: YCF, YEE, YQG, YQO, YSB, YVV, YWT, YXU, YYZ, UTR, UYB, YXI, YOW</p>	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	User	NO	0.971	Enabled	2.4%	2.4%
2	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H + ESV	User	NO	1.025	Enabled	17.6%	17.6%
3	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H + ESV	User	NO	0.773	Enabled	9.4%	9.4%
4	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L + ESV	User	NO	0.772	Enabled	5.1%	5.1%
5	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	0.772	Enabled	4.2%	4.2%
6	YXU	N 43° 2' 16.48" W 81° 8' 56.15" 08 W	H	Database	NO	1.244	Enabled	31.2%	31.2%
7	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H + ESV	User	NO	1.573	Enabled	17.5%	17.5%
8	ERI	N 42° 1' 2.63" W 80° 17' 33.71" 06 W	L + ESV	User	NO	0.784	Enabled	39.7%	39.7%
9	BUF	N 42° 55' 44.39" W 78° 38' 46.83" 08 W	H + ESV	User	NO	0.817	Enabled	35.6%	35.6%
10	YQO	N 42° 42' 24.17" W 80° 53' 16.39" 08 W	H	Database	NO	0.772	Enabled	5.4%	5.4%
11	YYZ	N 43° 39' 28.87" W 79° 37' 53.15" 10 W	H	Database	NO	0.772	Enabled	1.3%	1.3%
12	JHW	N 42° 11' 18.99" W 79° 7' 16.70" 07 W	H + ESV	User	NO	0.944	Enabled	3.6%	3.6%
	Total Coverage							86.5%	86.5%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0		DXO	PSI	ASP	MBS				
19.1		DXO	CRL	ASP	MBS	YXU			
35.3		DXO	CRL	CXR	YXU				
48.9		ERI	YQO	CXR	YXU				
71.6		ERI	YQO	BUF	YXU				
112.6		ERI	YYZ	BUF	DKK	JHW			

DME/DME (Continued)			Return To Summary
<i>Inertial Drift Segments</i>			
#	Start Location	End Location	Length [NM]
1	N 42° 54' 12.41" W 82° 41' 27.99"	N 42° 57' 7.55" W 82° 34' 9.48"	6.1
	VOR: DET	Available from N 42° 54' 12.41" W 82° 41' 27.99" to N 42° 57' 7.55" W 82° 34' 9.48"	
	VOR: YQG	Available from N 42° 54' 12.41" W 82° 41' 27.99" to N 42° 54' 26.76" W 82° 40' 52.14"	
	VOR: PSI	Available from N 42° 54' 12.41" W 82° 41' 27.99" to N 42° 54' 37.92" W 82° 40' 24.25"	
2	N 43° 7' 12.83" W 81° 16' 14.30"	N 43° 8' 0.45" W 81° 6' 12.40"	7.4
	VOR: YQO	Available from N 43° 7' 12.83" W 81° 16' 14.30" to N 43° 8' 0.45" W 81° 6' 12.40"	
	VOR: YXU	Available from N 43° 7' 12.83" W 81° 16' 14.30" to N 43° 8' 0.45" W 81° 6' 12.40"	
	VOR: YWT	Available from N 43° 7' 41.22" W 81° 10' 16.81" to N 43° 8' 0.45" W 81° 6' 12.40"	
3	N 43° 16' 9.69" W 79° 9' 9.13"	N 43° 16' 56.86" W 78° 56' 2.38"	9.6
	VOR: YYZ	Available from N 43° 16' 9.69" W 79° 9' 9.13" to N 43° 16' 56.86" W 78° 56' 2.38"	
	VOR: BUF	Available from N 43° 16' 9.69" W 79° 9' 9.13" to N 43° 16' 56.86" W 78° 56' 2.38"	
	VOR: BUF	Available from N 43° 16' 9.69" W 79° 9' 9.13" to N 43° 16' 56.86" W 78° 56' 2.38"	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
ZETTR	TANKO	DXO, PSI, MBS, and ASP
TANKO	KELTI	DKK, CXR, ERI, CRL, JHW, DXO, BUF, MBS, ASP, YQO, YXU, and YYZ

User Data					Return To Summary		
User Data Files							
#	File Name						
1	ZETTR_DKK_ESV.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	ASP	N 44° 26' 56.86" W 83° 23' 39.42" 07 W	H	625.1	116.10	ASP	Used
Restriction:		Bearing [True]: 293.0° to 13.0° Bearing [Mag]: 300.0° to 20.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
ESV:		Bearing [True]: 77.0° to 171.0° Bearing [Mag]: 84.0° to 178.0°			Arc Distance: Out to 106.0 NM Altitude: 8600.0 to 20000.0 ft		
ESV:		Bearing [True]: 86.0° to 114.0° Bearing [Mag]: 93.0° to 121.0°			Arc Distance: Out to 130.0 NM Altitude: 13100.0 to 20000.0 ft		
72	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H	771.5	116.90	FNT	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 223.0° to 303.0° Bearing [Mag]: 229.0° to 309.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 304.0° to 222.0° Bearing [Mag]: 310.0° to 228.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
ESV:		Bearing [True]: 44.0° to 62.0° Bearing [Mag]: 50.0° to 68.0°			Arc Distance: Out to 123.0 NM Altitude: 11900.0 to 20000.0 ft		
ESV:		Bearing [True]: 53.0° to 62.0° Bearing [Mag]: 59.0° to 68.0°			Arc Distance: Out to 131.0 NM Altitude: 13500.0 to 45000.0 ft		
ESV:		Bearing [True]: 76.0° to 87.0° Bearing [Mag]: 82.0° to 93.0°			Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	MBS	N 43° 31' 53.95" W 84° 4' 38.28" 03 W	L	662.5	112.90	MBS	Used
Restriction:		Bearing [True]: 189.0° to 197.0° Bearing [Mag]: 192.0° to 200.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 63.0° to 80.0° Bearing [Mag]: 66.0° to 83.0°			Arc Distance: Out to 114.0 NM Altitude: 11900.0 to 17000.0 ft		
ESV:		Bearing [True]: 68.0° to 138.0° Bearing [Mag]: 71.0° to 141.0°			Arc Distance: Out to 94.0 NM Altitude: 8800.0 to 15000.0 ft		
ESV:		Bearing [True]: 68.0° to 80.0° Bearing [Mag]: 71.0° to 83.0°			Arc Distance: Out to 121.0 NM Altitude: 13200.0 to 15000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Used
Restriction:		Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
75	APN	N 45° 4' 58.04" W 83° 33' 22.43" 07 W	L	675.7	108.80	APN	Not Used
Restriction:		Bearing [True]: 253.0° to 273.0° Bearing [Mag]: 260.0° to 280.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
ESV:		Bearing [True]: 101.0° to 141.0° Bearing [Mag]: 108.0° to 148.0°			Arc Distance: Out to 104.0 NM Altitude: 11900.0 to 14000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	BUF	N 42° 55' 44.39" W 78° 38' 46.83" 08 W	H	729.4	116.40	BUF	Used
Restriction:		Bearing [True]: 254.0° to 267.0° Bearing [Mag]: 262.0° to 275.0°			Distance: Beyond 0.0 NM Altitude: Below 2300.0 ft		
Restriction:		Bearing [True]: 268.0° to 27.0° Bearing [Mag]: 276.0° to 35.0°			Distance: Beyond 0.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 28.0° to 253.0° Bearing [Mag]: 36.0° to 261.0°			Distance: Beyond 0.0 NM Altitude: Below 11000.0 ft		
ESV:		Bearing [True]: 301.0° to 318.0° Bearing [Mag]: 309.0° to 326.0°			Arc Distance: Out to 134.0 NM Altitude: 14000.0 to 45000.0 ft		
ESV:		Bearing [True]: 258.0° to 324.0° Bearing [Mag]: 266.0° to 332.0°			Arc Distance: Out to 103.0 NM Altitude: 9900.0 to 20000.0 ft		
77	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 27.0° to 39.0° Bearing [Mag]: 33.0° to 45.0°			Arc Distance: Out to 126.0 NM Altitude: 12300.0 to 20000.0 ft		
ESV:		Bearing [True]: 27.0° to 67.0° Bearing [Mag]: 33.0° to 73.0°			Arc Distance: Out to 84.0 NM Altitude: 7000.0 to 20000.0 ft		
78	JHW	N 42° 11' 18.99" W 79° 7' 16.70" 07 W	H	1786.0	114.70	JHW	Used
ESV:		Bearing [True]: 294.0° to 359.0° Bearing [Mag]: 301.0° to 6.0°			Arc Distance: Out to 110.0 NM Altitude: 9900.0 to 18000.0 ft		
79	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
ESV:		Bearing [True]: 42.0° to 55.0° Bearing [Mag]: 45.0° to 58.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	ERI	N 42° 1' 2.63" W 80° 17' 33.71" 06 W	L	797.0	109.40	ERI	Used
Restriction:		Bearing [True]: 104.0° to 174.0° Bearing [Mag]: 110.0° to 180.0°			Distance: Beyond 25.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 244.0° to 268.0° Bearing [Mag]: 250.0° to 274.0°			Distance: Beyond 20.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 175.0° to 243.0° Bearing [Mag]: 181.0° to 249.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 289.0° to 309.0° Bearing [Mag]: 295.0° to 315.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 70.0° to 103.0° Bearing [Mag]: 76.0° to 109.0°			Distance: Beyond 30.0 NM Altitude: Below 5000.0 ft		
ESV:		Bearing [True]: 281.0° to 74.0° Bearing [Mag]: 287.0° to 80.0°			Arc Distance: Out to 90.0 NM Altitude: 7000.0 to 20000.0 ft		
ESV:		Bearing [True]: 2.0° to 19.0° Bearing [Mag]: 8.0° to 25.0°			Arc Distance: Out to 101.0 NM Altitude: 19000.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
81	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Used
		ESV:	Bearing [True]: 339.0° to 359.0° Bearing [Mag]: 344.0° to 4.0°		Arc Distance: Out to 110.0 NM Altitude: 10000.0 to 20000.0 ft		
82	DKK	N 42° 29' 26.04" W 79° 16' 26.75" 07 W	H	680.0	116.20	DKK	Not Used
		Restriction:	Bearing [True]: 163.0° to 183.0° Bearing [Mag]: 170.0° to 190.0°		Distance: Beyond 17.0 NM Altitude: Below 7500.0 ft		
		Restriction:	Bearing [True]: 199.0° to 228.0° Bearing [Mag]: 206.0° to 235.0°		Distance: Beyond 17.0 NM Altitude: Below 4500.0 ft		
		Restriction:	Bearing [True]: 184.0° to 198.0° Bearing [Mag]: 191.0° to 205.0°		Distance: Beyond 17.0 NM Altitude: Below 5500.0 ft		
		Restriction:	Bearing [True]: 93.0° to 162.0° Bearing [Mag]: 100.0° to 169.0°		Distance: Beyond 17.0 NM Altitude: Below 4700.0 ft		
		Restriction:	Bearing [True]: 353.0° to 353.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		ESV:	Bearing [True]: 316.0° to 335.0° Bearing [Mag]: 323.0° to 342.0°		Arc Distance: Out to 133.0 NM Altitude: 13700.0 to 45000.0 ft		
		ESV:	Bearing [True]: 316.0° to 359.0° Bearing [Mag]: 323.0° to 6.0°		Arc Distance: Out to 80.0 NM Altitude: 10000.0 to 16000.0 ft		