

DME DME Assessment Results for FIXET4 path FIXET_GLANC

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR 07112024\DOCS AND FILES\SIDS\DME-DME\NEW RUNS FROM HAL SIDS\KBWI FIXET4 (RNAV) SID\DME-DME\KBWI FIXET4 DME_DME_ 20240221_1555 EST\KBWI FIXET4 (RNAV) SID_DME_DME_ 20240227.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR 07112024\DOCS AND FILES\SIDS\DME-DME\NEW RUNS FROM HAL SIDS\KBWI FIXET4 (RNAV) SID\DME-DME\KBWI FIXET4 DME_DME_ 20240221_1555 EST\KBWI [IFPA] FIXET4 20240227_1220 EST\FIXET_GLANC\KBWI FIXET4 SID FIXET GLANC 20240227_1220 EST.pdf
Procedure Name:	FIXET4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/27/2024 12:20 EST
Databases:	DTED0.MAX

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
FIXET	WP	N38° 35' 34.7700", W077° 04' 16.3200"	9000	VNAV	200	FLY_BY	TF
SCRAM	WP	N38° 22' 16.2000", W077° 47' 54.7700"	9000	VNAV	200	FLY_BY	TF
DANOO	WP	N38° 04' 27.2400", W078° 15' 08.9600"	10000	VNAV	200	FLY_BY	TF
WALCE	WP	N37° 43' 19.4300", W078° 47' 53.2000"	10000	VNAV	240	FLY_BY	TF
GLANC	WP	N37° 26' 27.0100", W079° 03' 37.6500"	10000	VNAV	240	FLY_BY	TF

Flyability

Flight Type:	SID
Selected Airport:	KBWI [IFPA]
Climb Gradient:	None assigned
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for FIXET4 path FIXET_GLANC

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	FKN

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	SBV	N36° 40' 30.1389", W079° 00' 52.1970"	5.0 W	40	L	IFPA	NO	Enabled	4.8 %	4.8 %
2	RIC	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	H	IFPA	NO	Enabled	42.4 %	42.4 %
3	FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	H	IFPA	NO	Enabled	46.6 %	46.6 %
4	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H	IFPA	NO	Enabled	54.7 %	54.7 %
5	MOL	N37° 54' 03.1524", W079° 06' 22.2526"	5.0 W	40	L	IFPA	NO	Enabled	41.7 %	41.8 %
6	GSO	N36° 02' 44.4948", W079° 58' 34.9356"	3.0 W	130	H	IFPA	NO	Enabled	2.3 %	2.3 %
7	OTT	N38° 42' 21.1352", W076° 44' 41.0854"	10.0 W	40	L	IFPA	NO	Enabled	19.4 %	19.3 %
8	LDN	N38° 51' 15.8344", W078° 12' 20.0559"	6.0 W	40	L	IFPA	NO	Enabled	0.9 %	0.9 %
9	PXT	N38° 17' 16.2825", W076° 24' 00.8315"	10.0 W	40	L	IFPA	NO	Enabled	0.5 %	0.5 %
10	BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	L	IFPA	NO	Enabled	7.6 %	7.6 %
11	GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	H	IFPA	NO	Enabled	50.4 %	50.4 %
12	AML	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	L	IFPA	NO	Enabled	54.6 %	54.5 %
13	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled	23.8 %	23.8 %
14	FKN	N36° 42' 51.2443", W077° 00' 44.5488"	9.0 W	40	L	IFPA	NO	Disabled		

DME DME Assessment Results for FIXET4 path FIXET_GLANC

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CSN	DCA	AML	OTT	PXT	
0.6	CSN	DCA	AML	OTT		
3.3	CSN	DCA	AML	OTT	BRV	
12.4	AML	OTT	CSN	DCA		
23.1	CSN	DCA	AML			
24.4	CSN	DCA	GVE	AML		
28.4	CSN	GVE	RIC	AML	FAK	
32.5	CSN	GVE	RIC	AML		
37.9	LDN	GVE	AML	CSN		
38.8	RIC	GVE	AML	FAK		
43.4	RIC	GVE	AML	LDN	FAK	
43.8	RIC	GVE	AML	FAK		
44.1	RIC	GVE	AML	FAK	CSN	
61.0	RIC	AML	FAK	MOL	CSN	
65.0	RIC	CSN	FAK	MOL		
65.7	CSN	GVE	RIC	FAK	MOL	
66.9	MOL	FAK	GVE			
67.2	RIC	CSN	GVE	MOL	FAK	
67.2	FAK	MOL	RIC			
68.6	FAK	MOL	RIC	GVE		
73.8	RIC	CSN	FAK	GVE	MOL	
76.0	FAK	GVE	MOL	RIC		
76.9	CSN	FAK	RIC	GVE	MOL	
78.6	RIC	GVE				
80.2						
91.0	MOL	GVE				
101.5						
107.5	FAK	MOL				
113.3	SBV	FAK	MOL			
116.3	SBV	FAK	MOL	GSO		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N37° 54' 38.7032", W078° 30' 24.8888"	N37° 47' 47.6541", W078° 41' 00.3728"	10.8255
2	N37° 40' 33.5192", W078° 50' 28.5978"	N37° 35' 44.3746", W078° 54' 58.8320"	5.9973

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
FIXET	SCRAM	AML, FAK, DCA, BRV, GVE, PXT, RIC, OTT, CSN	
SCRAM	DANOO	AML, FAK, GVE, LDN, MOL, RIC, CSN	
DANOO	WALCE	AML, FAK, GVE, MOL, RIC, CSN	
WALCE	GLANC	FAK, GSO, SBV, GVE, MOL	

User Data Files

#	File Name
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None	
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DME DME Assessment Results for FIXET4 path FIXET_GLANC

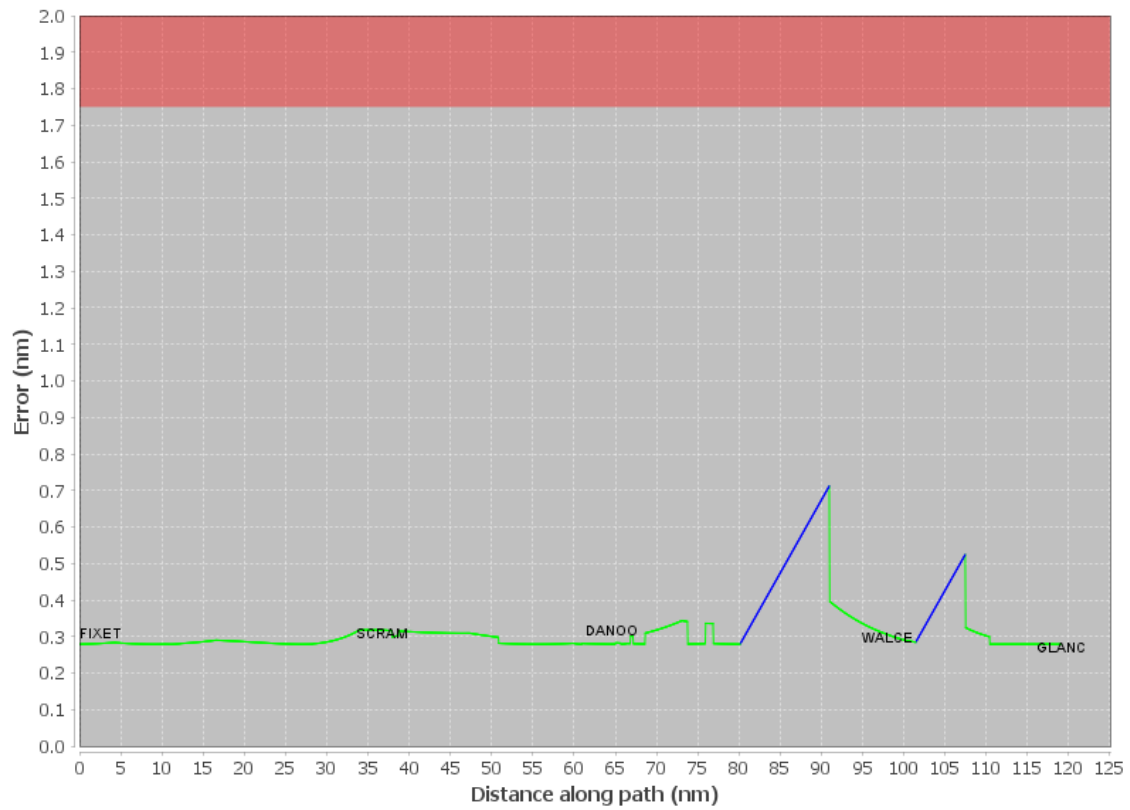
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	SBV FAA 683652-37 SBV [IFPA]	N36° 40' 30.1389", W079° 00' 52.1970"	5.0 W	40	520.1	110.4	SBV FAA 683652-37	
ESV:		Bearing [True]: 342.0° to 15.0° Bearing [Mag]: 347.0° to 20.0°				Arc Distance: Out to 53.0 NM Altitude: 2300.0 to 16000.0 ft		
2	CSN FAA 682017-12 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-12	
ESV:		Bearing [True]: 183.0° to 215.0° Bearing [Mag]: 189.0° to 221.0°				Arc Distance: Out to 96.0 NM Altitude: 7500.0 to 16000.0 ft		
3	FAK FAA 698146-16 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-16	
ESV:		Bearing [True]: 4.0° to 104.0° Bearing [Mag]: 10.0° to 110.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
4	FAK FAA 698146-8 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-8	
ESV:		Bearing [True]: 262.0° to 277.0° Bearing [Mag]: 268.0° to 283.0°				Arc Distance: Out to 64.0 NM Altitude: 4200.0 to 16000.0 ft		
5	LVL FAA 704121-7 LVL [IFPA]	N36° 49' 04.9290", W077° 54' 10.6850"	8.0 W	40	350	112.9	LVL FAA 704121-7	
ESV:		Bearing [True]: 349.0° to 6.0° Bearing [Mag]: 357.0° to 14.0°				Arc Distance: Out to 56.0 NM Altitude: 3500.0 to 19000.0 ft		
6	HPW FAA 698117-11 HPW [IFPA]	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	70	114.35	HPW FAA 698117-11	
ESV:		Bearing [True]: 291.0° to 301.0° Bearing [Mag]: 297.0° to 307.0°				Arc Distance: Out to 53.0 NM Altitude: 3500.0 to 19000.0 ft		
7	FAK FAA 698146-14 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-14	
ESV:		Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
8	GSO FAA 698207-54 GSO [IFPA]	N36° 02' 44.4948", W079° 58' 34.9356"	3.0 W	130	907.9	116.2	GSO FAA 698207-54	
ESV:		Bearing [True]: 162.0° to 61.0° Bearing [Mag]: 165.0° to 64.0°				Arc Distance: Out to 113.0 NM Altitude: 11000.0 to 18000.0 ft		
9	CSN FAA 682017-21 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-21	
ESV:		Bearing [True]: 44.0° to 154.0° Bearing [Mag]: 50.0° to 160.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
10	AML FAA 732650-41 AML [IFPA]	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	295.7	113.5	AML FAA 732650-41	
ESV:		Bearing [True]: 172.0° to 242.0° Bearing [Mag]: 180.0° to 250.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 20000.0 ft		
11	GSO FAA 698207-62 GSO [IFPA]	N36° 02' 44.4948", W079° 58' 34.9356"	3.0 W	130	907.9	116.2	GSO FAA 698207-62	
ESV:		Bearing [True]: 292.0° to 55.0° Bearing [Mag]: 295.0° to 58.0°				Arc Distance: Out to 98.0 NM Altitude: 8900.0 to 15600.0 ft		
12	GVE FAA 698194-15 GVE [IFPA]	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	GVE FAA 698194-15	
ESV:		Bearing [True]: 84.0° to 264.0° Bearing [Mag]: 90.0° to 270.0°				Arc Distance: Out to 150.0 NM Altitude: 16000.0 to 33000.0 ft		
13	RIC FAA 704161-22 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-22	
ESV:		Bearing [True]: 197.0° to 260.0° Bearing [Mag]: 206.0° to 269.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 20000.0 ft		
14	GVE FAA 698194-12 GVE [IFPA]	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	GVE FAA 698194-12	
ESV:		Bearing [True]: 173.0° to 218.0° Bearing [Mag]: 179.0° to 224.0°				Arc Distance: Out to 58.0 NM Altitude: 8000.0 to 16000.0 ft		
15	CSN FAA 682017-23 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-23	
ESV:		Bearing [True]: 191.0° to 206.0° Bearing [Mag]: 197.0° to 212.0°				Arc Distance: Out to 43.0 NM Altitude: 3900.0 to 15000.0 ft		
16	MOL FAA 901868-14 MOL [IFPA]	N37° 54' 03.1524", W079° 06' 22.2526"	5.0 W	40	3458.9	115.3	MOL FAA 901868-14	
ESV:		Bearing [True]: 65.0° to 95.0° Bearing [Mag]: 70.0° to 100.0°				Arc Distance: Out to 60.0 NM Altitude: 8000.0 to 17000.0 ft		
17	RIC FAA 704161-21 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-21	

DME DME Assessment Results for FIXET4 path FIXET_GLANC

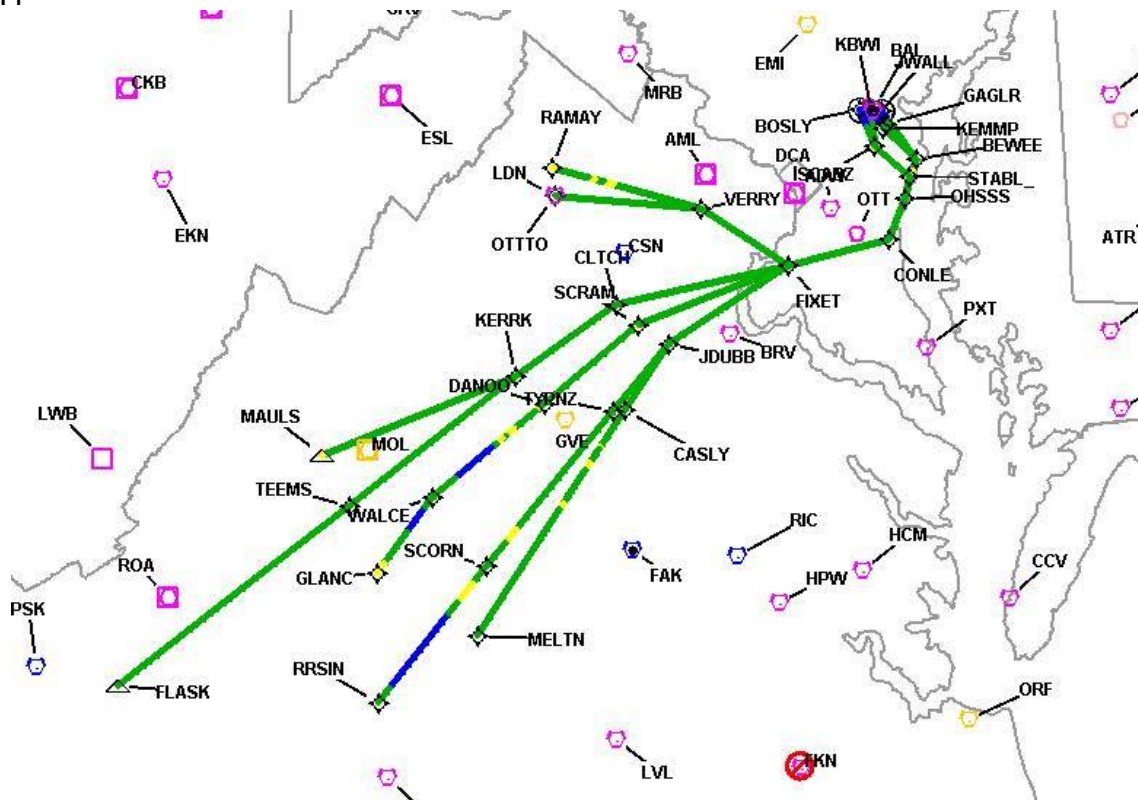
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
ESV:		Bearing [True]: 285.0° to 9.0° Bearing [Mag]: 294.0° to 18.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 16000.0 ft		
18	RIC FAA 704161-24 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-24	
ESV:		Bearing [True]: 290.0° to 339.0° Bearing [Mag]: 299.0° to 348.0°				Arc Distance: Out to 65.0 NM Altitude: 6500.0 to 16000.0 ft		
19	AML FAA 732650-49 AML [IFPA]	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	295.7	113.5	AML FAA 732650-49	
ESV:		Bearing [True]: 222.0° to 242.0° Bearing [Mag]: 230.0° to 250.0°				Arc Distance: Out to 130.0 NM Altitude: 14000.0 to 18000.0 ft		
20	FAK FAA 698146-10 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-10	
ESV:		Bearing [True]: 314.0° to 331.0° Bearing [Mag]: 320.0° to 337.0°				Arc Distance: Out to 82.0 NM Altitude: 12900.0 to 16000.0 ft		
21	HPW FAA 698117-16 HPW [IFPA]	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	70	114.35	HPW FAA 698117-16	
ESV:		Bearing [True]: 259.0° to 284.0° Bearing [Mag]: 265.0° to 290.0°				Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 18000.0 ft		
22	CVI FAA 861931-10 CVI [IFPA]	N36° 22' 22.4900", W076° 52' 17.5610"	9.0 W	40	65	114.6	CVI FAA 861931-10	
ESV:		Bearing [True]: 266.0° to 302.0° Bearing [Mag]: 275.0° to 311.0°				Arc Distance: Out to 110.0 NM Altitude: 8900.0 to 10000.0 ft		

DME DME Assessment Results for FIXET4 path FIXET_GLANC

DME Error

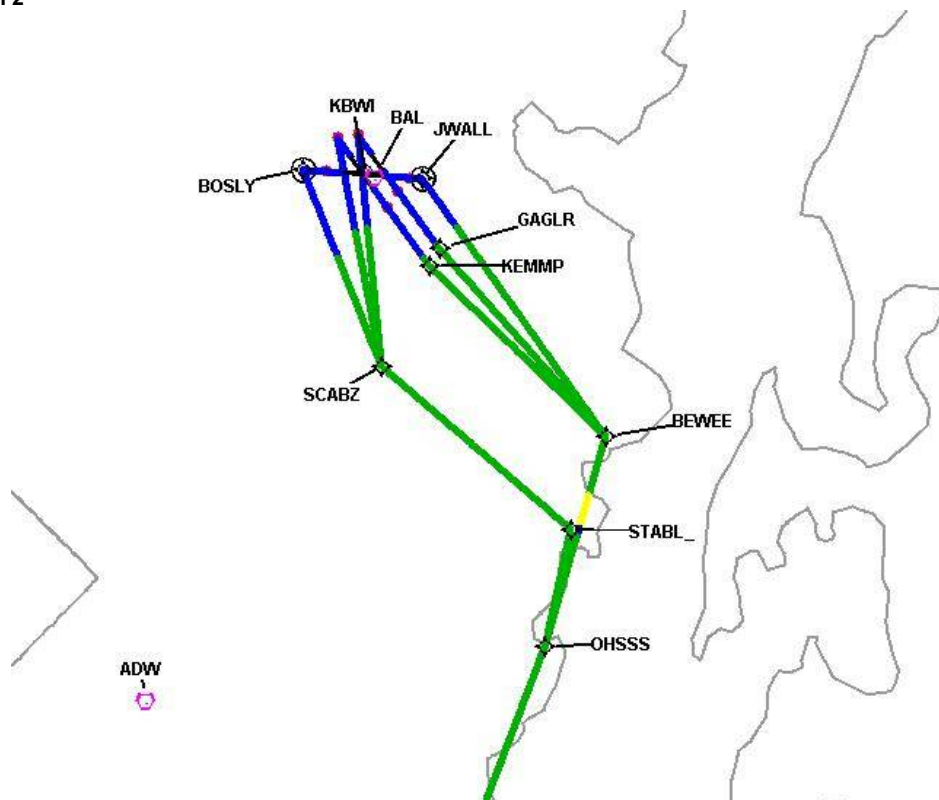


Graphic Depiction 1



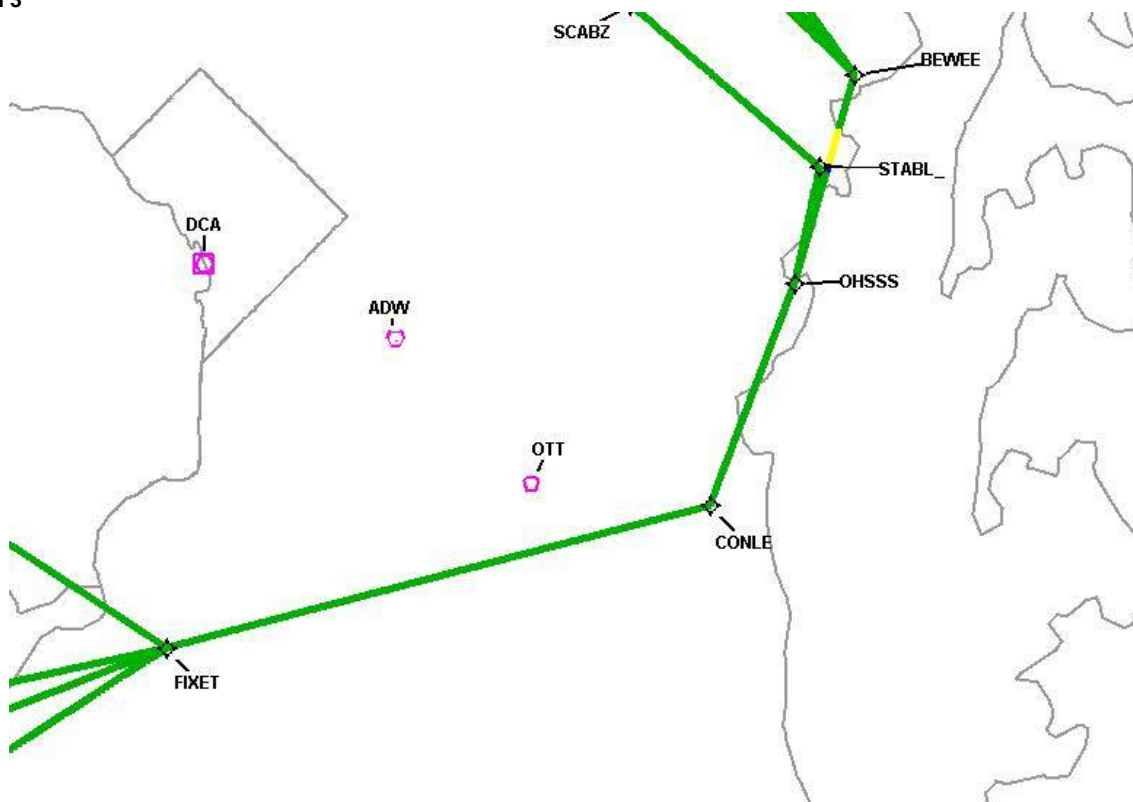
DME DME Assessment Results for FIXET4 path FIXET_GLANC

Graphic Depiction 2



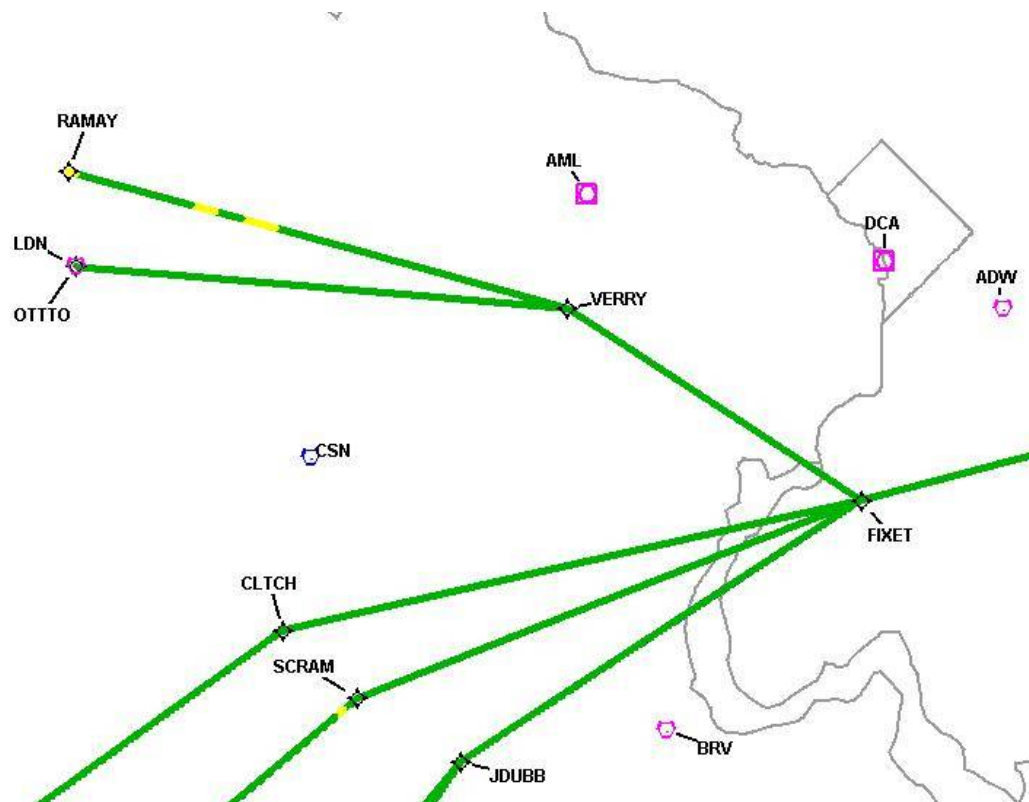
DME DME Assessment Results for FIXET4 path FIXET_GLANC

Graphic Depiction 3

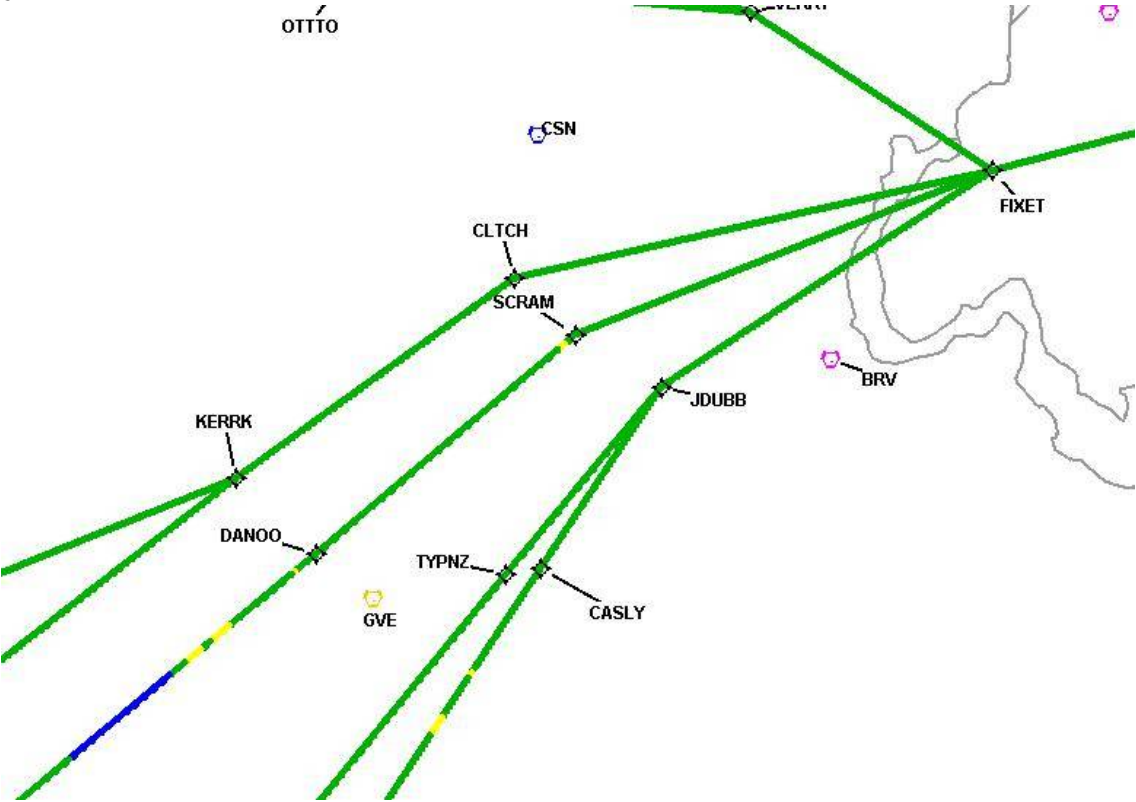


DME DME Assessment Results for FIXET4 path FIXET_GLANC

Graphic Depiction 4

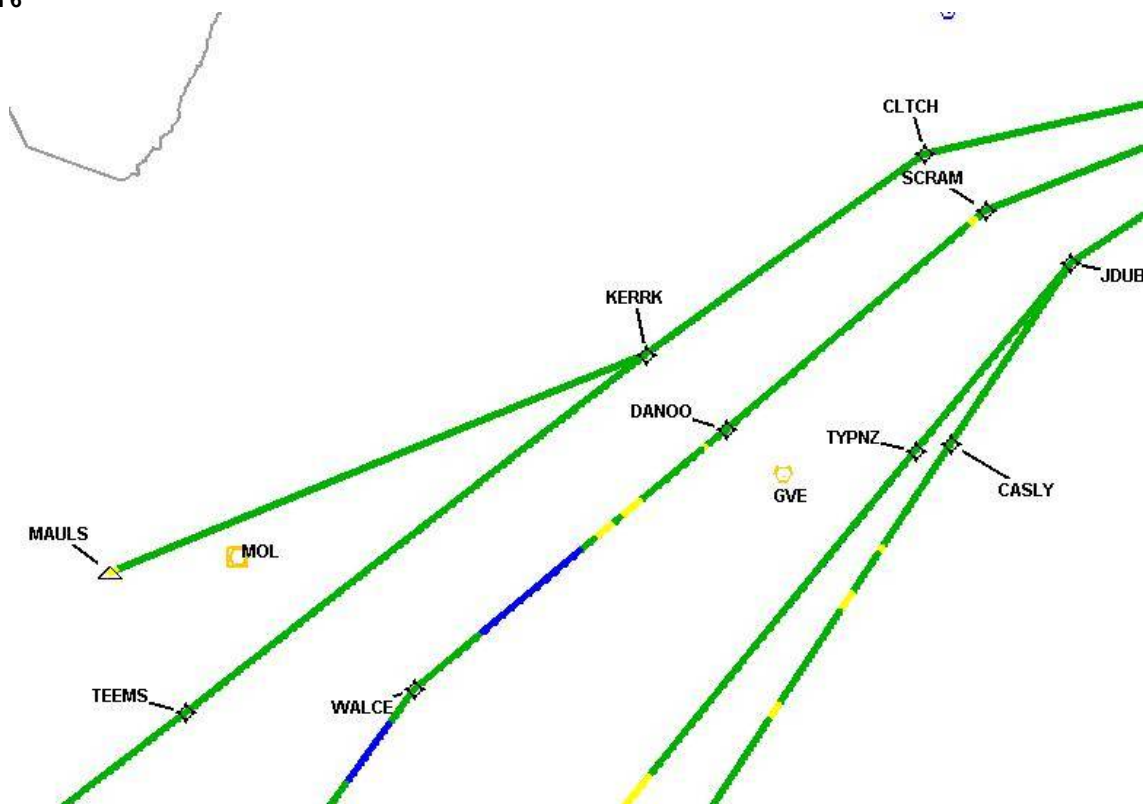


DME DME Assessment Results for FIXET4 path FIXET_GLANC



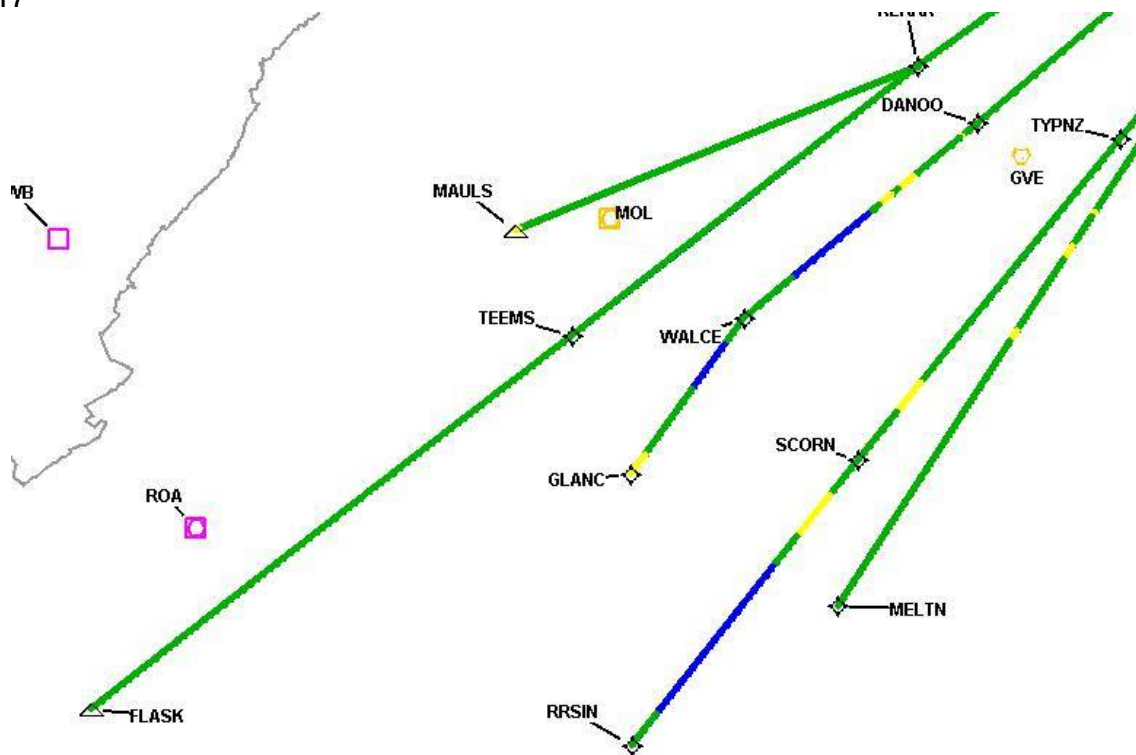
DME DME Assessment Results for FIXET4 path FIXET_GLANC

Graphic Depiction 6

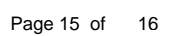


DME DME Assessment Results for FIXET4 path FIXET_GLANC

Graphic Depiction 7

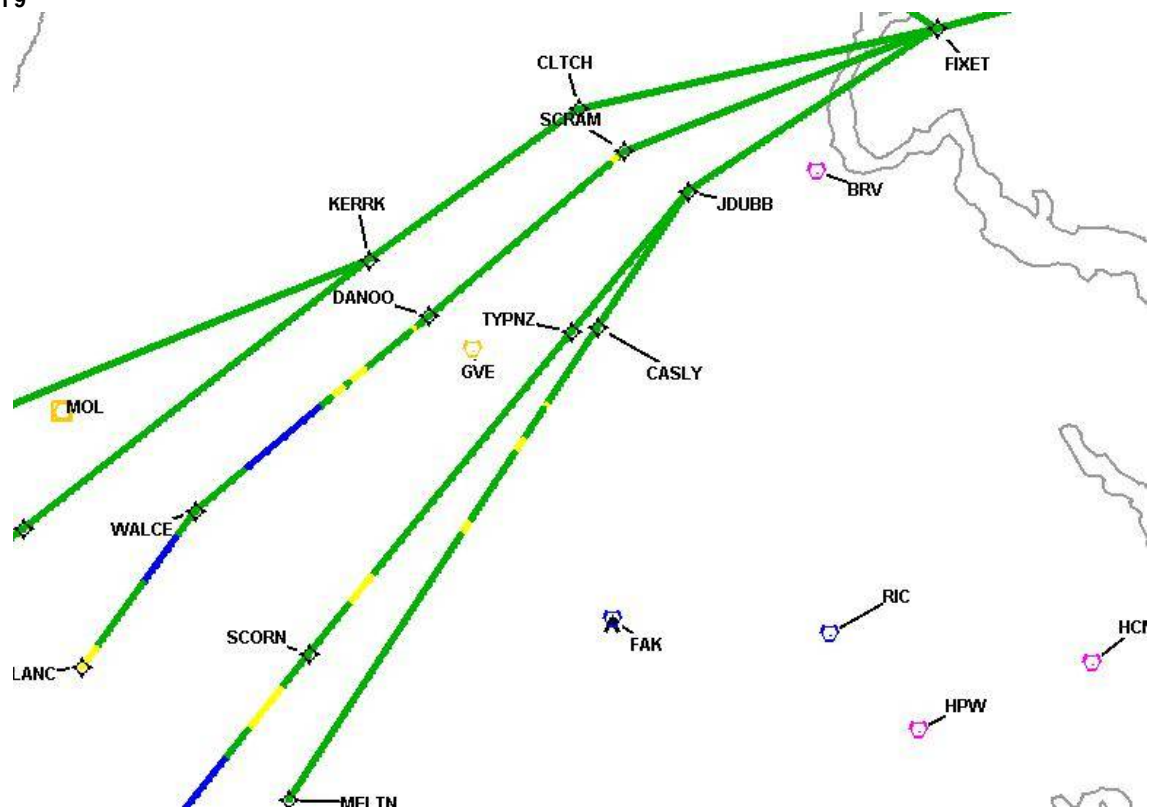


Graphic Depiction 8



DME DME Assessment Results for FIXET4 path FIXET_GLANC

Graphic Depiction 9



DME DME Assessment Results for FIXET4 path FIXET_OTTTO

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI FIXET4 (RNAV) SID DME DME_20231212 MITRE 3DEP 3 arcsec LOW ALT.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] FIXET4 20240207_1916 EST\FIXET_OTTTO\KBWI FIXET4 SID FIXET OTTTO 20240207_1916 EST.pdf
Procedure Name:	FIXET4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 19:16 EST
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
FIXET	WP	N38° 35' 34.7700", W077° 04' 16.3200"	9000	VNAV	200	FLY_BY	TF
VERRY	WP	N38° 48' 28.5100", W077° 29' 42.9600"	9000	VNAV	200	FLY_BY	TF
OTTTO	WP	N38° 51' 15.8100", W078° 12' 20.0100"	9000	VNAV	200	FLY_BY	TF

Flyability

Flight Type:	SID
Selected Airport:	KBWI [IFPA]
Climb Gradient:	None assigned
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for FIXET4 path FIXET_OTTTO

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	FKN

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	MRB	N39° 23' 08.0600", W077° 50' 54.0820"	7.0 W	40	L	IFPA	NO	Enabled	50.6 %	50.6 %
2	OTT	N38° 42' 21.1352", W076° 44' 41.0854"	10.0 W	40	L	IFPA	NO	Enabled	48.2 %	48.2 %
3	LDN	N38° 51' 15.8344", W078° 12' 20.0559"	6.0 W	40	L	IFPA	NO	Enabled	63.1 %	63 %
4	FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	H	IFPA	NO	Enabled	22 %	21.9 %
5	PXT	N38° 17' 16.2825", W076° 24' 00.8315"	10.0 W	40	L	IFPA	NO	Enabled	5.4 %	5.4 %
6	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H	IFPA	NO	Enabled	77.9 %	78 %
7	AML	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	L	IFPA	NO	Enabled	100 %	100 %
8	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled	72.9 %	72.9 %
9	FKN	N36° 42' 51.2443", W077° 00' 44.5488"	9.0 W	40	L	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CSN	DCA	AML	OTT	PXT	
3.2	CSN	DCA	AML	OTT		
16.5	AML	DCA	CSN	OTT	LDN	
17.8	AML	CSN	DCA	OTT		
18.3	AML	CSN	DCA	OTT	LDN	
27.6	AML	LDN	DCA	CSN		
28.2	MRB	DCA	CSN	LDN	AML	
41.7	MRB	LDN	CSN	AML		
44.6	MRB	LDN	FAK	AML		
53.1	FAK	AML	MRB			

DME DME Assessment Results for FIXET4 path FIXET_OTTO

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
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Available DMEs by Waypoints

Waypoint Before	Waypoint After	DME List	Suggested DMEs
FIXET	VERRY	AML, DCA, LDN, PXT, OTT, CSN	
VERRY	OTTO	AML, FAK, DCA, LDN, MRB, OTT, CSN	

User Data Files

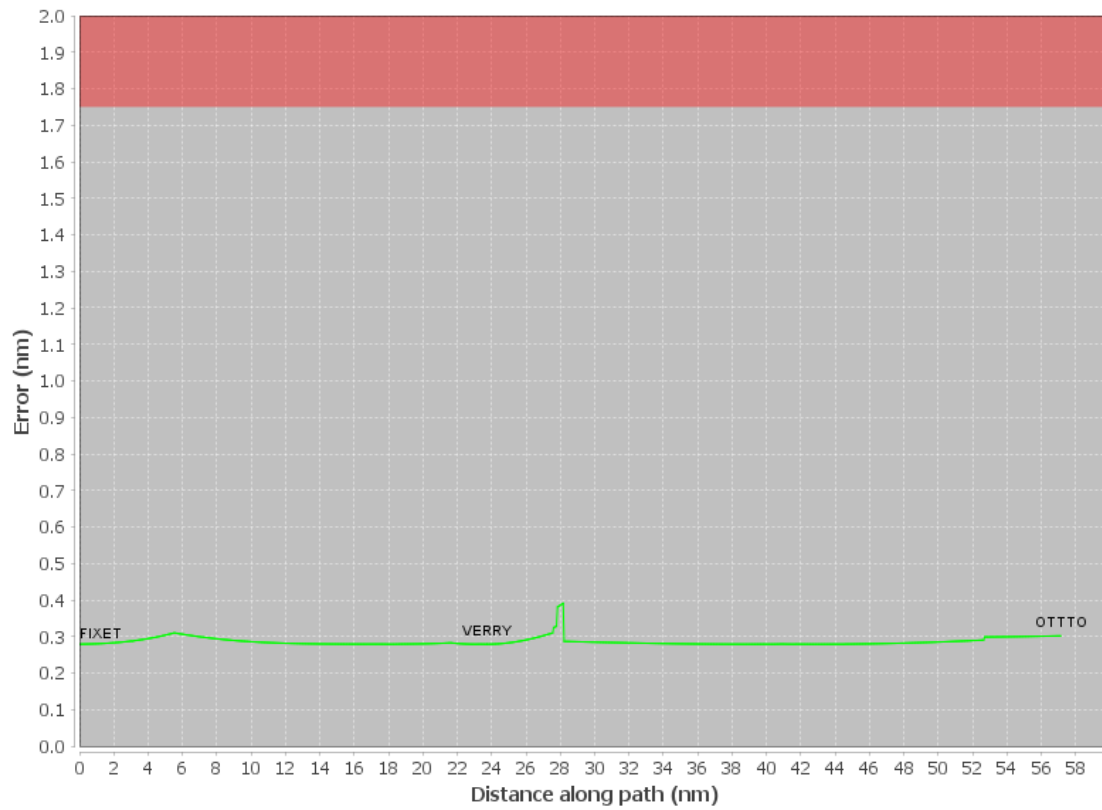
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User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GVE FAA 698194-12 GVE [IFPA]	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	GVE FAA 698194-12	
ESV:		Bearing [True]: 173.0° to 218.0° Bearing [Mag]: 179.0° to 224.0°				Arc Distance: Out to 58.0 NM Altitude: 8000.0 to 16000.0 ft		
2	AML FAA 732650-41 AML [IFPA]	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	295.7	113.5	AML FAA 732650-41	
ESV:		Bearing [True]: 172.0° to 242.0° Bearing [Mag]: 180.0° to 250.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 20000.0 ft		
3	CSN FAA 682017-12 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-12	
ESV:		Bearing [True]: 183.0° to 215.0° Bearing [Mag]: 189.0° to 221.0°				Arc Distance: Out to 96.0 NM Altitude: 7500.0 to 16000.0 ft		
4	RIC FAA 704161-21 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-21	
ESV:		Bearing [True]: 285.0° to 9.0° Bearing [Mag]: 294.0° to 18.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 16000.0 ft		
5	FAK FAA 698146-14 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-14	
ESV:		Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
6	HPW FAA 698117-16 HPW [IFPA]	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	70	114.35	HPW FAA 698117-16	
ESV:		Bearing [True]: 259.0° to 284.0° Bearing [Mag]: 265.0° to 290.0°				Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 18000.0 ft		

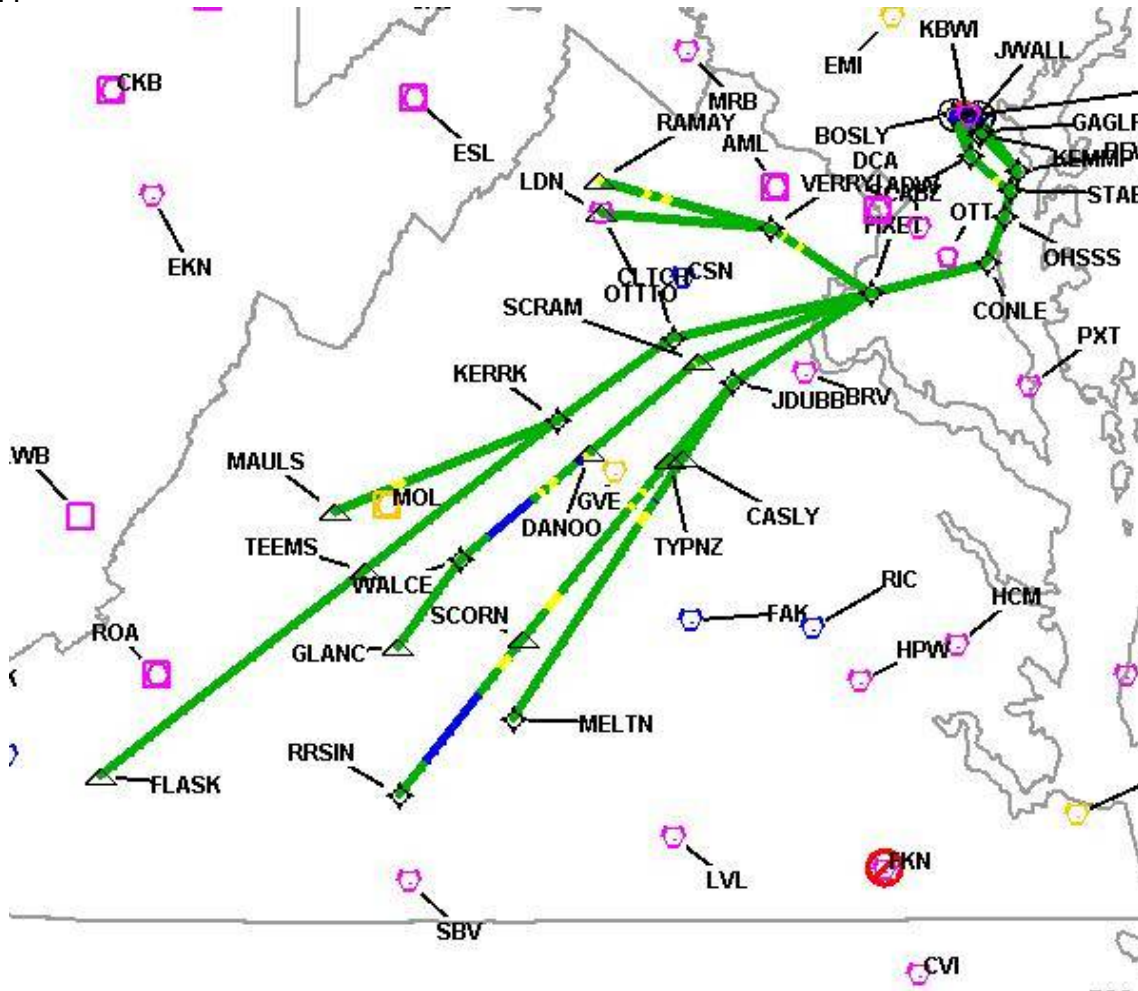
DME DME Assessment Results for FIXET4 path FIXET_OTTTO

DME Error



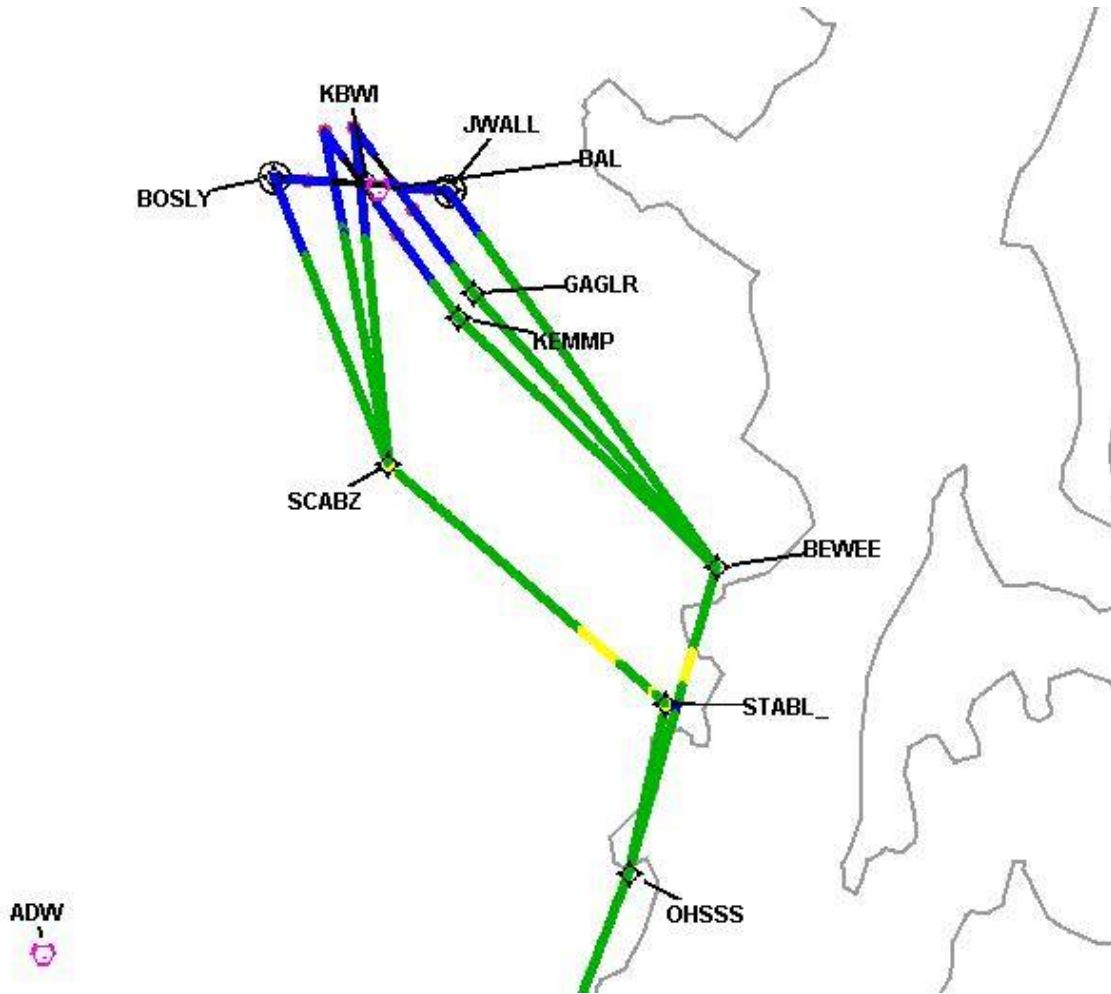
DME DME Assessment Results for FIXET4 path FIXET_OTTO

Graphic Depiction 1



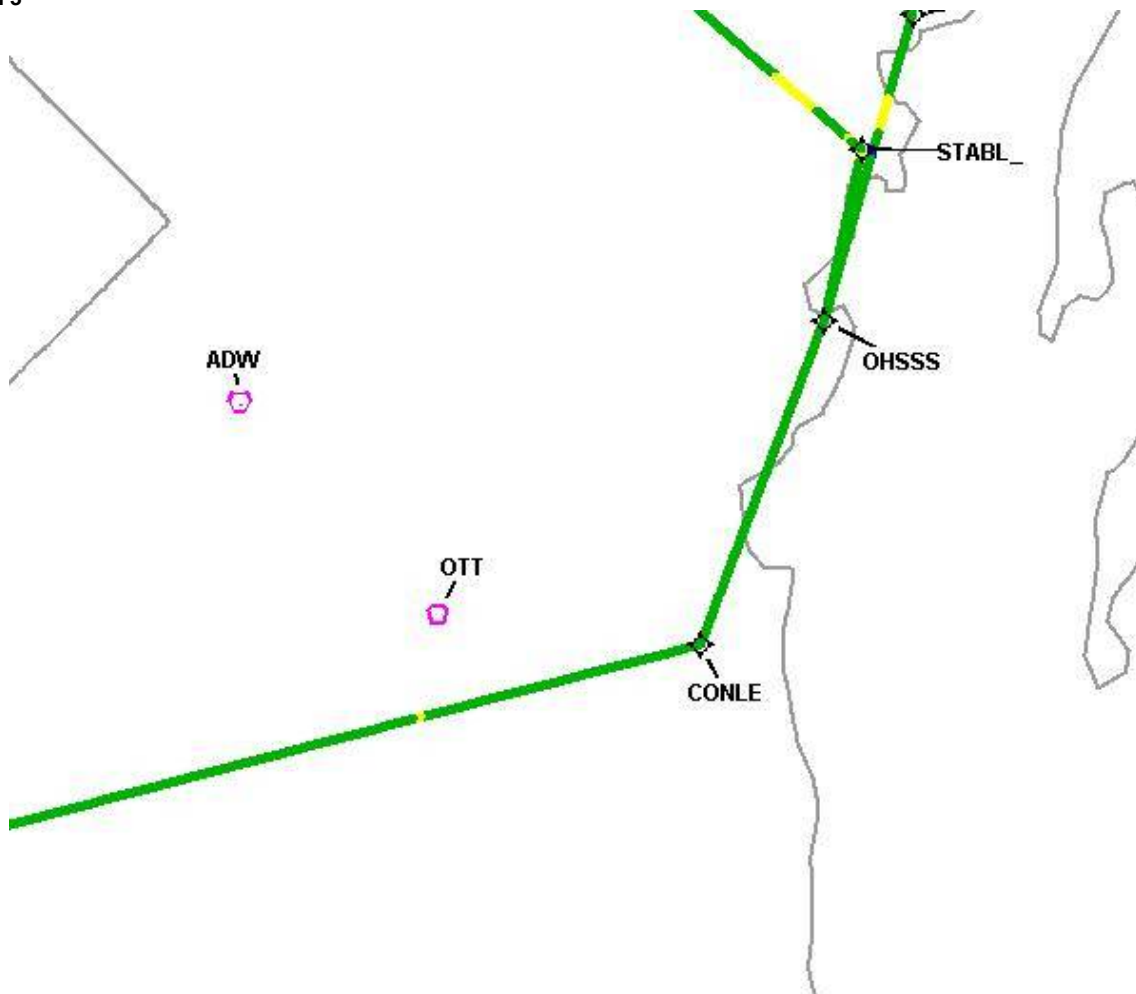
DME DME Assessment Results for FIXET4 path FIXET_OTTTO

Graphic Depiction 2



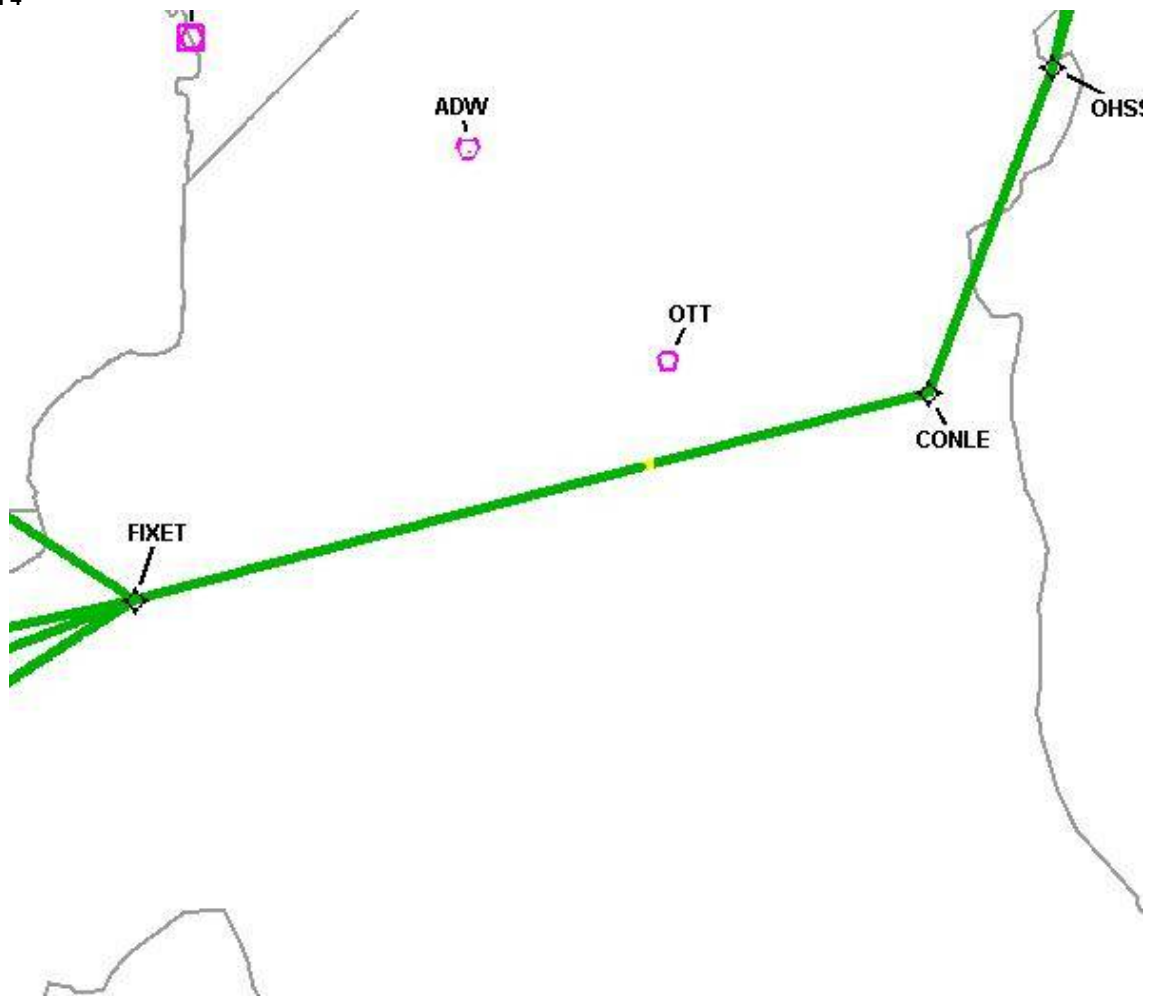
DME DME Assessment Results for FIXET4 path FIXET_OTTTO

Graphic Depiction 3



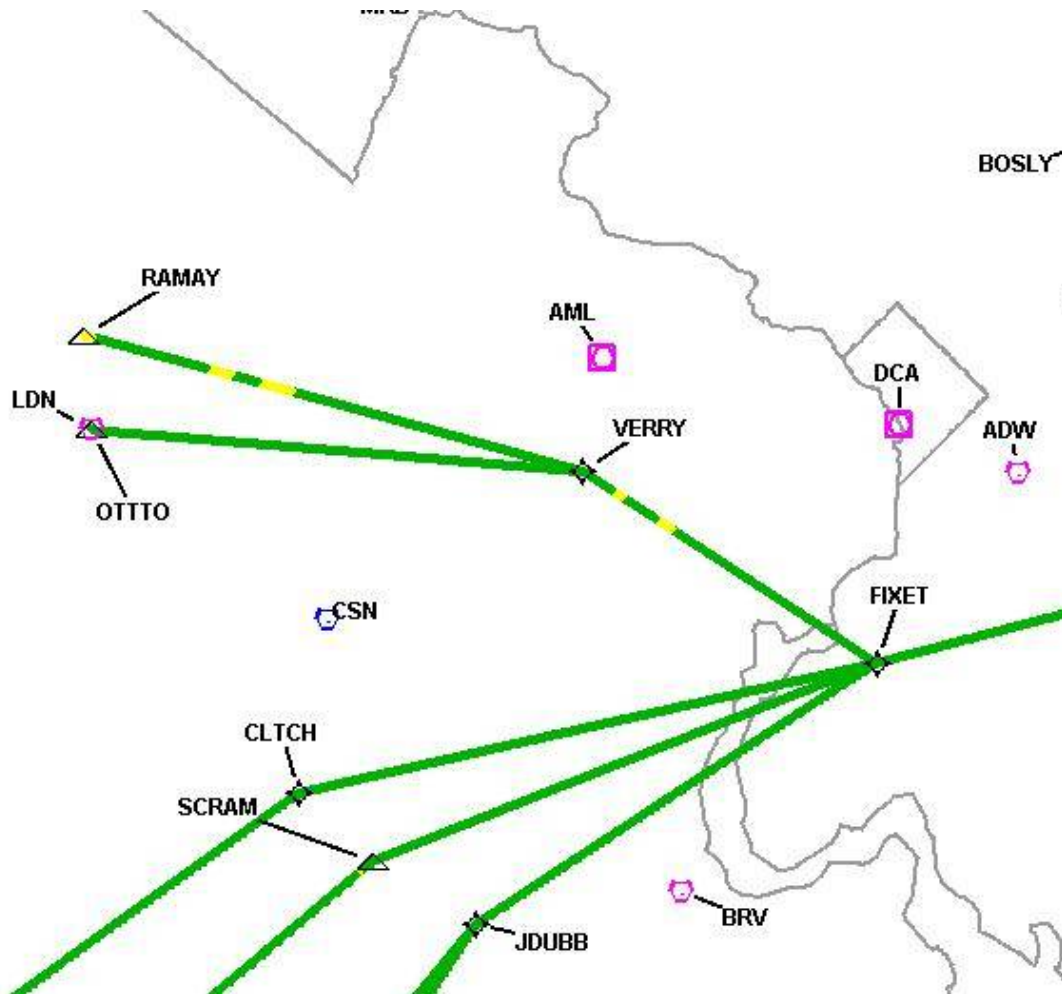
DME DME Assessment Results for FIXET4 path FIXET_OTTTO

Graphic Depiction 4



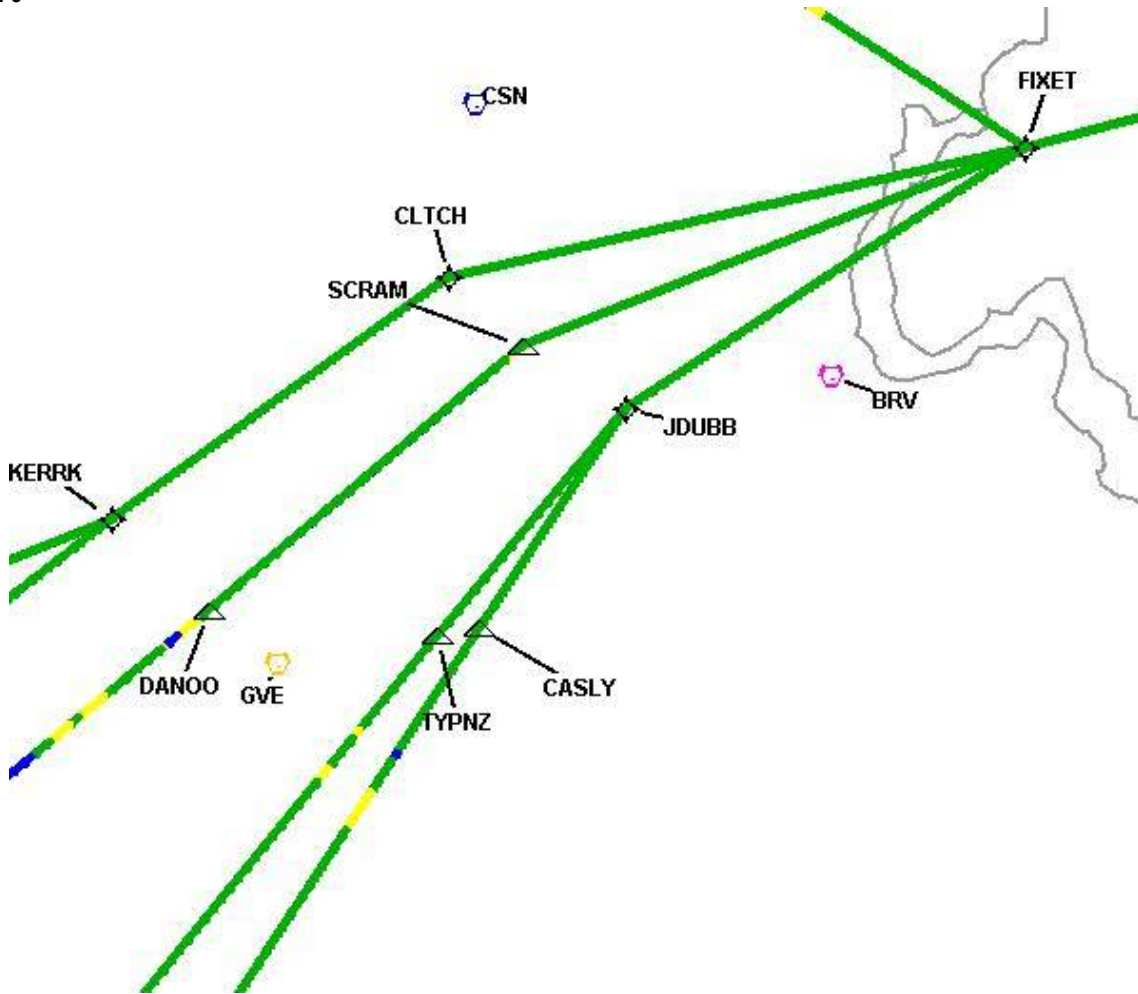
DME DME Assessment Results for FIXET4 path FIXET_OTTTO

Graphic Depiction 5



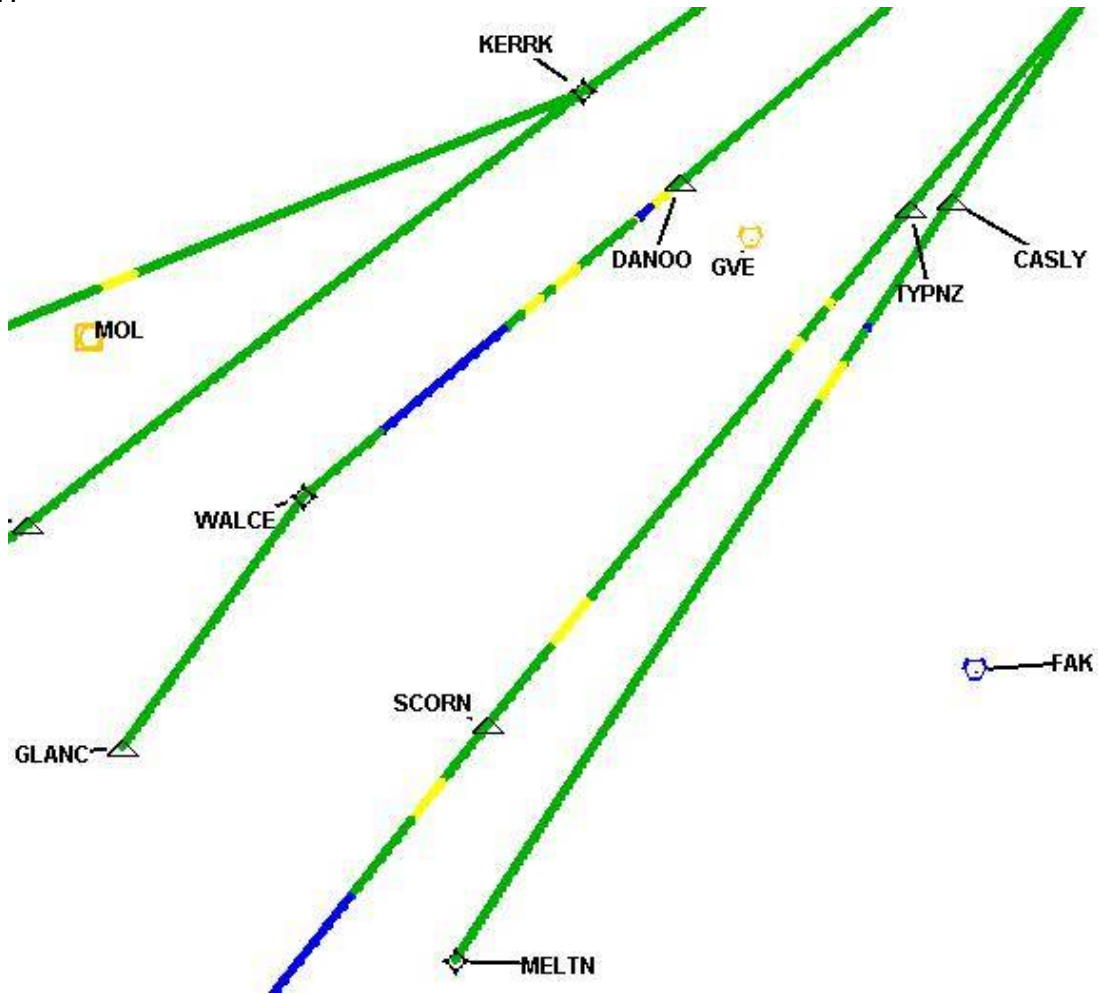
DME DME Assessment Results for FIXET4 path FIXET_OTTTO

Graphic Depiction 6



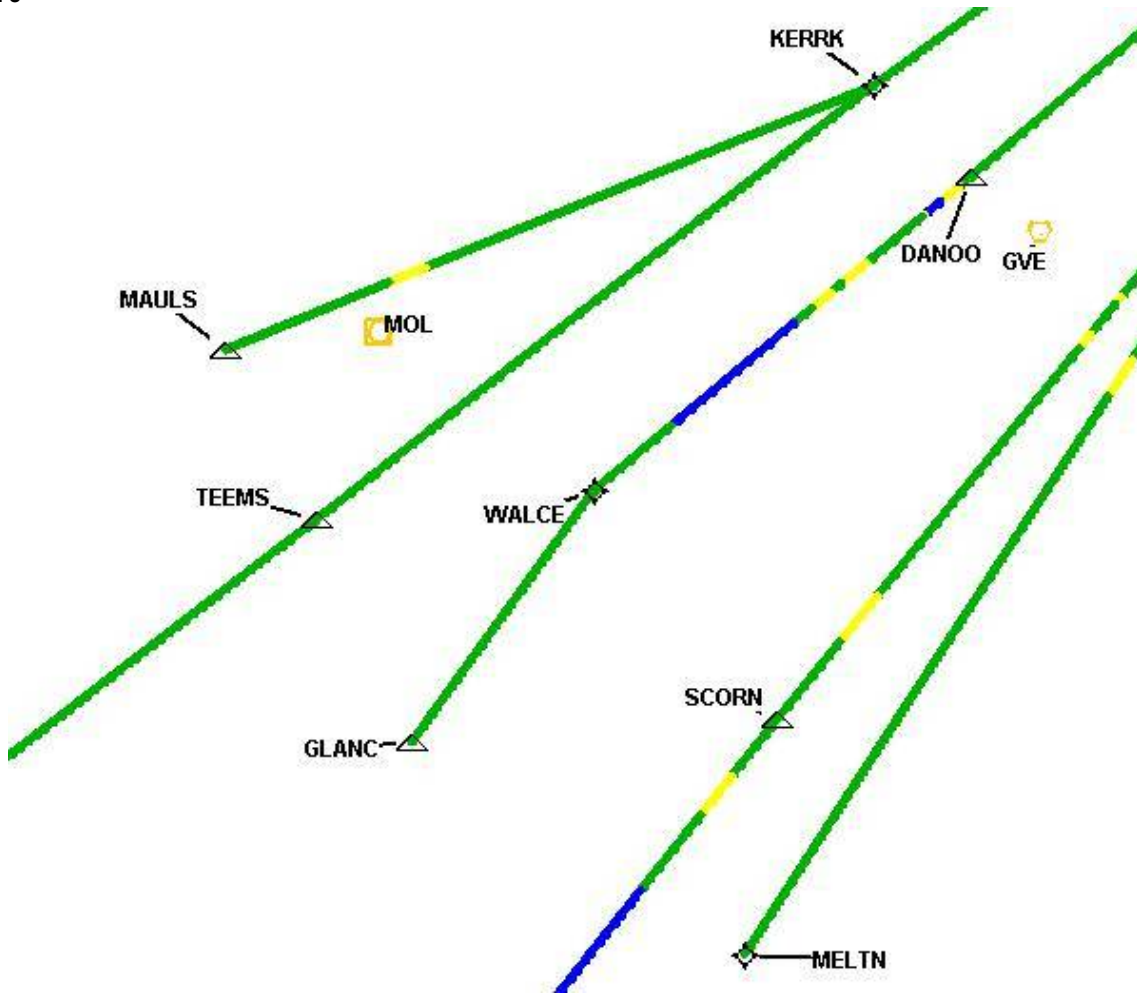
DME DME Assessment Results for FIXET4 path FIXET_OTTTO

Graphic Depiction 7



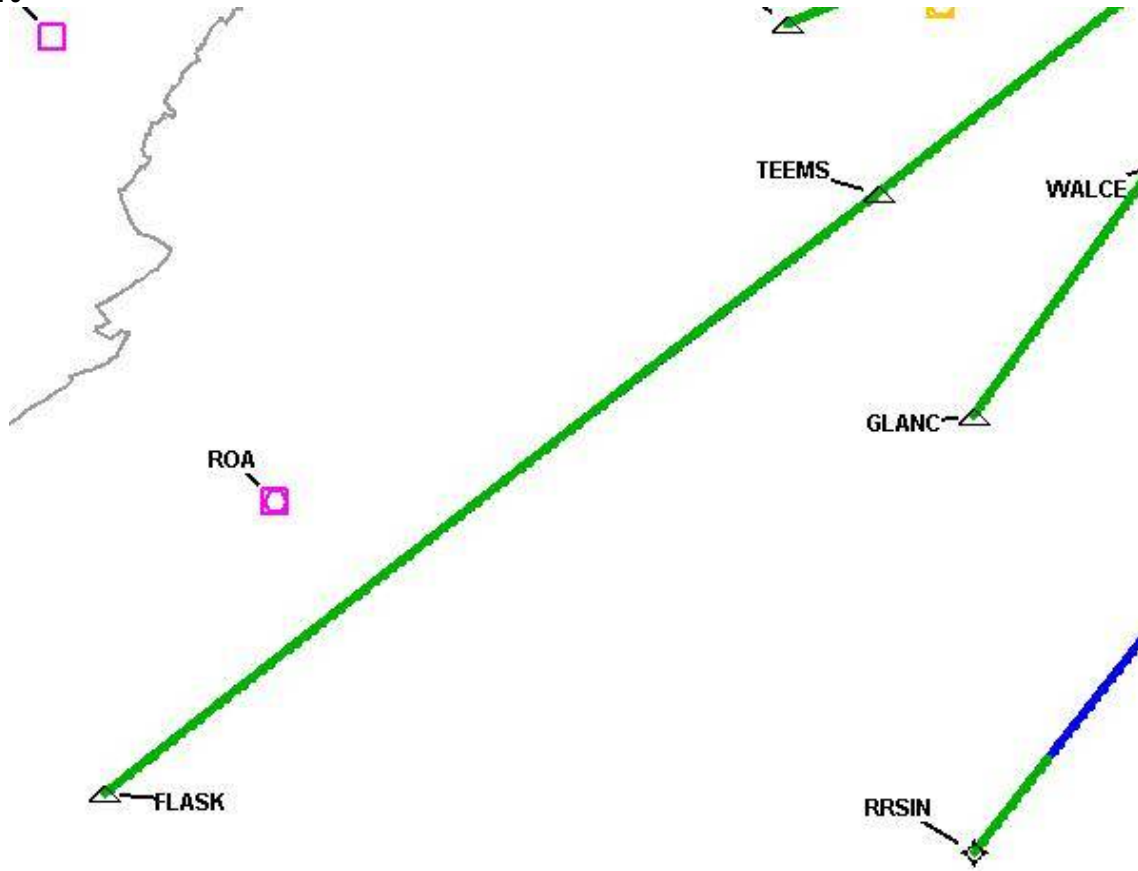
DME DME Assessment Results for FIXET4 path FIXET_OTTTO

Graphic Depiction 8



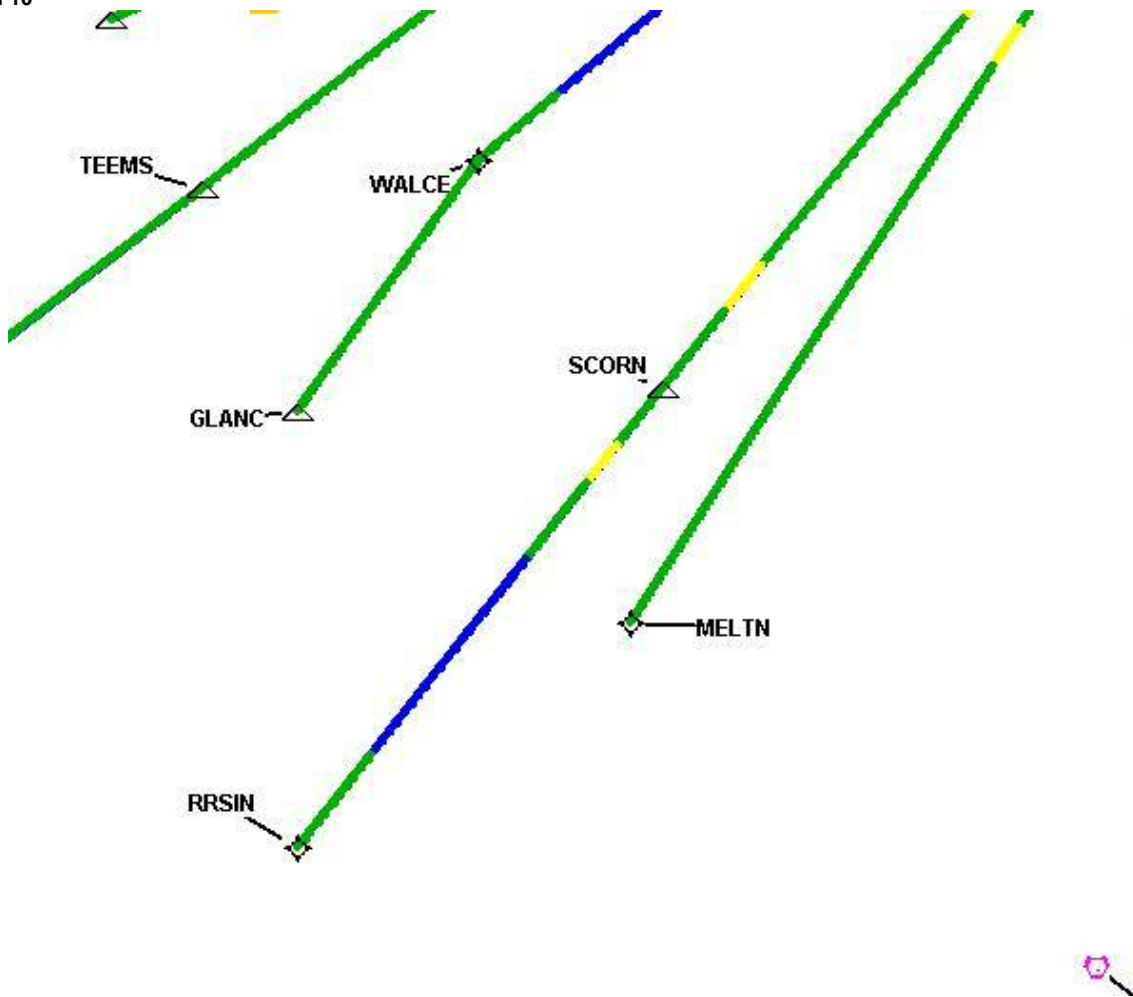
DME DME Assessment Results for FIXET4 path FIXET_OTTO

Graphic Depiction 9



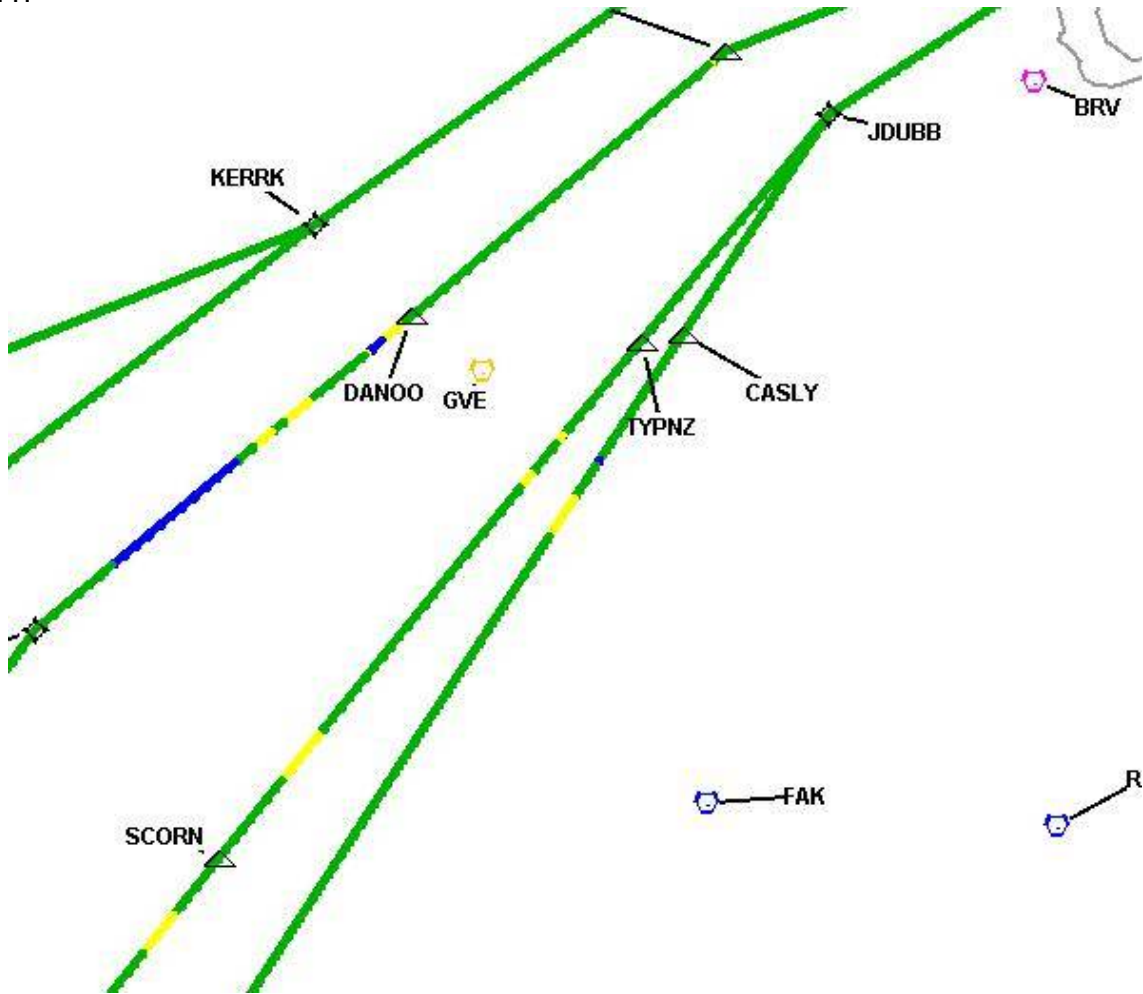
DME DME Assessment Results for FIXET4 path FIXET_OTTTO

Graphic Depiction 10



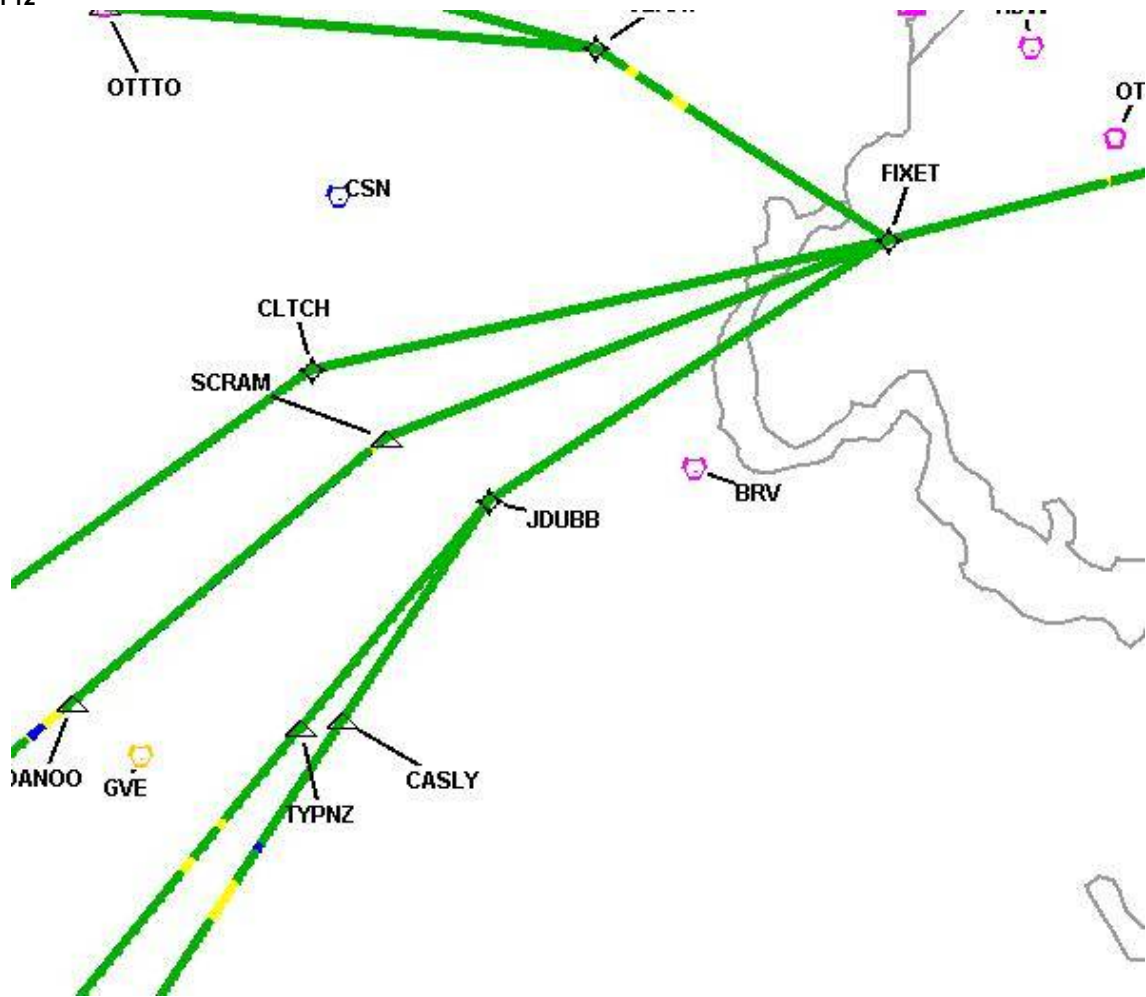
DME DME Assessment Results for FIXET4 path FIXET_OTTTO

Graphic Depiction 11



DME DME Assessment Results for FIXET4 path FIXET_OTTO

Graphic Depiction 12



DME DME Assessment Results for FIXET4 path FIXET_RRSIN

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR 07112024\DOCS AND FILES\SIDS\DME-DME\NEW RUNS FROM HAL SIDS\KBWI FIXET4 (RNAV) SID\DME-DME\KBWI FIXET4 DME_DME_ 20240221_ 1555 EST\KBWI FIXET4 (RNAV) SID_DME_DME_ 20240227.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR 07112024\DOCS AND FILES\SIDS\DME-DME\NEW RUNS FROM HAL SIDS\KBWI FIXET4 (RNAV) SID\DME-DME\KBWI FIXET4 DME_DME_ 20240221_ 1555 EST\KBWI [IFPA] FIXET4 20240227_ 1220 EST\FIXET_RRSIN\KBWI FIXET4 SID FIXET RRSIN 20240227_ 1220 EST.pdf
Procedure Name:	FIXET4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/27/2024 12:20 EST
Databases:	DTED0.MAX

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
FIXET	WP	N38° 35' 34.7700", W077° 04' 16.3200"	9000	VNAV	200	FLY_BY	TF
JDUBB	WP	N38° 17' 59.4100", W077° 38' 59.7600"	9000	VNAV	200	FLY_BY	TF
TYPNZ	WP	N38° 02' 44.1800", W077° 55' 18.7200"	9000	VNAV	200	FLY_BY	TF
SCORN	WP	N37° 27' 59.8000", W078° 31' 54.3300"	13000	VNAV	240	FLY_BY	TF
RRSIN	WP	N36° 57' 07.3400", W079° 03' 32.5400"	13000	VNAV	240	FLY_BY	TF

Flyability

Flight Type:	SID
Selected Airport:	KBWI [IFPA]
Climb Gradient:	None assigned
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for FIXET4 path FIXET_RRSIN

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	FKN

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	GSO	N36° 02' 44.4948", W079° 58' 34.9356"	3.0 W	130	H	IFPA	NO	Enabled	14.3 %	16.1 %
2	OTT	N38° 42' 21.1352", W076° 44' 41.0854"	10.0 W	40	L	IFPA	NO	Enabled	17.6 %	16.7 %
3	SBV	N36° 40' 30.1389", W079° 00' 52.1970"	5.0 W	40	L	IFPA	NO	Enabled	2.8 %	3.2 %
4	HPW	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	L	IFPA	NO	Enabled	15.8 %	17 %
5	RIC	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	H	IFPA	NO	Enabled	36.5 %	34.7 %
6	FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	H	IFPA	NO	Enabled	50.8 %	49.4 %
7	BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	L	IFPA	NO	Enabled	8.3 %	7.9 %
8	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H	IFPA	NO	Enabled	82.4 %	80.2 %
9	GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	H	IFPA	NO	Enabled	67.1 %	65.7 %
10	AML	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	L	IFPA	NO	Enabled	45.1 %	42.8 %
11	MOL	N37° 54' 03.1524", W079° 06' 22.2526"	5.0 W	40	L	IFPA	NO	Enabled	18 %	17.8 %
12	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled	20.2 %	19.2 %
13	FKN	N36° 42' 51.2443", W077° 00' 44.5488"	9.0 W	40	L	IFPA	NO	Disabled		

DME DME Assessment Results for FIXET4 path FIXET_RRSIN

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CSN	DCA	AML	OTT		
2.1	CSN	DCA	AML	OTT	BRV	
13.0	CSN	DCA	AML	OTT		
22.1	CSN	DCA	GVE	OTT	AML	
23.0	CSN	DCA	GVE	AML		
26.5	CSN	GVE	AML			
29.5	CSN	GVE	RIC	FAK	AML	
35.8	RIC	GVE	CSN	AML		
44.2	RIC	GVE	CSN	FAK	AML	
54.6	MOL	FAK	GVE	RIC	AML	
59.0	MOL	CSN	FAK	GVE	RIC	
66.5	RIC	CSN	GVE	FAK		
77.3	CSN	FAK	GVE			
86.9	MOL	GVE	CSN	FAK		
88.9	MOL	GVE	CSN	HPW	FAK	
90.7	MOL	GVE	FAK			
90.9	HPW	GVE	CSN	FAK		
94.7	HPW	GVE	CSN	FAK	GSO	
105.9	GVE	MOL	HPW	CSN	GSO	
108.3	GVE	HPW	CSN	GSO		
112.4						
133.0	GSO	SBV				

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N37° 16' 34.2512", W078° 43' 40.8504"	N37° 00' 34.9693", W079° 00' 01.4952"	20.6335

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
FIXET	JDUBB	AML, FAK, DCA, BRV, GVE, RIC, OTT, CSN	
JDUBB	TYPNZ	AML, FAK, GVE, MOL, RIC, CSN	
TYPNZ	SCORN	AML, FAK, GSO, GVE, MOL, RIC, HPW, CSN	
SCORN	RRSIN	FAK, GSO, SBV, GVE, MOL, HPW, CSN	

User Data Files

#	File Name
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None	
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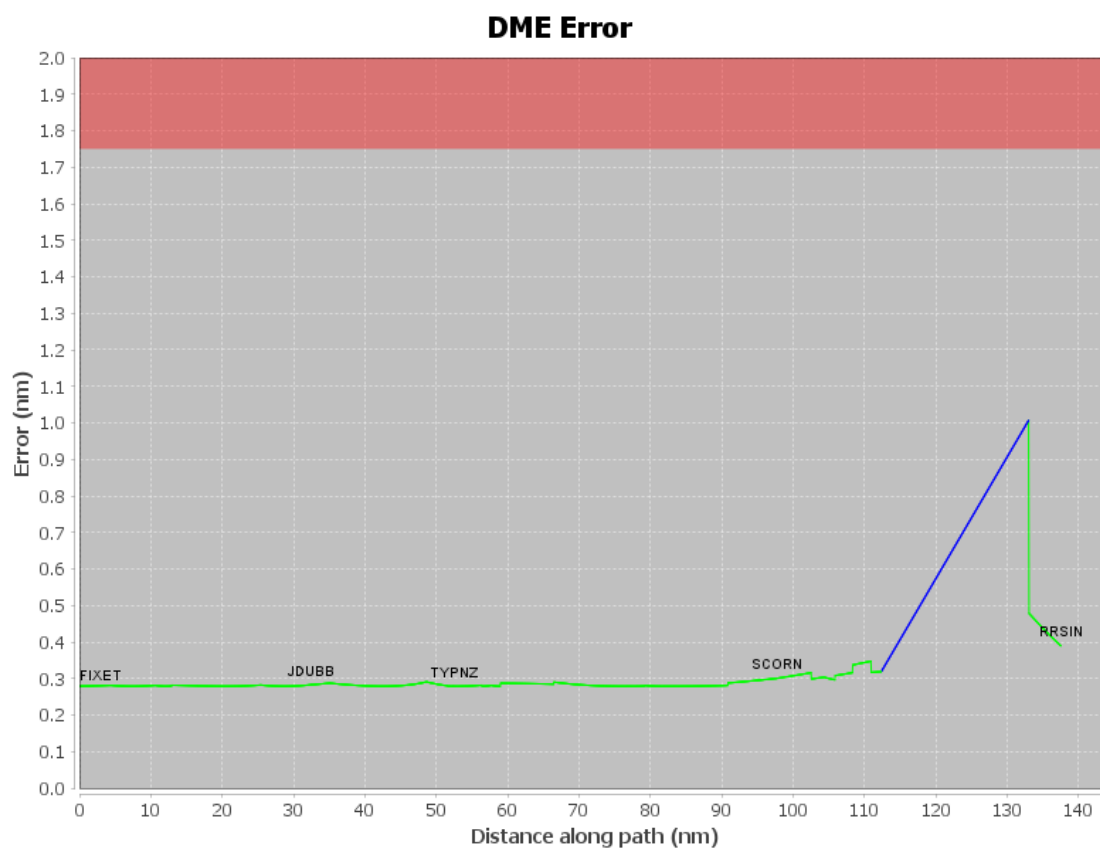
DME DME Assessment Results for FIXET4 path FIXET_RRSIN

User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	SBV FAA 683652-37 SBV [IFPA]	N36° 40' 30.1389", W079° 00' 52.1970"	5.0 W	40	520.1	110.4	SBV FAA 683652-37	
ESV:		Bearing [True]: 342.0° to 15.0° Bearing [Mag]: 347.0° to 20.0°				Arc Distance: Out to 53.0 NM Altitude: 2300.0 to 16000.0 ft		
2	CSN FAA 682017-12 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-12	
ESV:		Bearing [True]: 183.0° to 215.0° Bearing [Mag]: 189.0° to 221.0°				Arc Distance: Out to 96.0 NM Altitude: 7500.0 to 16000.0 ft		
3	FAK FAA 698146-16 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-16	
ESV:		Bearing [True]: 4.0° to 104.0° Bearing [Mag]: 10.0° to 110.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
4	FAK FAA 698146-8 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-8	
ESV:		Bearing [True]: 262.0° to 277.0° Bearing [Mag]: 268.0° to 283.0°				Arc Distance: Out to 64.0 NM Altitude: 4200.0 to 16000.0 ft		
5	LVL FAA 704121-7 LVL [IFPA]	N36° 49' 04.9290", W077° 54' 10.6850"	8.0 W	40	350	112.9	LVL FAA 704121-7	
ESV:		Bearing [True]: 349.0° to 6.0° Bearing [Mag]: 357.0° to 14.0°				Arc Distance: Out to 56.0 NM Altitude: 3500.0 to 19000.0 ft		
6	HPW FAA 698117-11 HPW [IFPA]	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	70	114.35	HPW FAA 698117-11	
ESV:		Bearing [True]: 291.0° to 301.0° Bearing [Mag]: 297.0° to 307.0°				Arc Distance: Out to 53.0 NM Altitude: 3500.0 to 19000.0 ft		
7	FAK FAA 698146-14 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-14	
ESV:		Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
8	GSO FAA 698207-54 GSO [IFPA]	N36° 02' 44.4948", W079° 58' 34.9356"	3.0 W	130	907.9	116.2	GSO FAA 698207-54	
ESV:		Bearing [True]: 162.0° to 61.0° Bearing [Mag]: 165.0° to 64.0°				Arc Distance: Out to 113.0 NM Altitude: 11000.0 to 18000.0 ft		
9	CSN FAA 682017-21 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-21	
ESV:		Bearing [True]: 44.0° to 154.0° Bearing [Mag]: 50.0° to 160.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
10	AML FAA 732650-41 AML [IFPA]	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	295.7	113.5	AML FAA 732650-41	
ESV:		Bearing [True]: 172.0° to 242.0° Bearing [Mag]: 180.0° to 250.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 20000.0 ft		
11	GSO FAA 698207-62 GSO [IFPA]	N36° 02' 44.4948", W079° 58' 34.9356"	3.0 W	130	907.9	116.2	GSO FAA 698207-62	
ESV:		Bearing [True]: 292.0° to 55.0° Bearing [Mag]: 295.0° to 58.0°				Arc Distance: Out to 98.0 NM Altitude: 8900.0 to 15600.0 ft		
12	GVE FAA 698194-15 GVE [IFPA]	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	GVE FAA 698194-15	
ESV:		Bearing [True]: 84.0° to 264.0° Bearing [Mag]: 90.0° to 270.0°				Arc Distance: Out to 150.0 NM Altitude: 16000.0 to 33000.0 ft		
13	RIC FAA 704161-22 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-22	
ESV:		Bearing [True]: 197.0° to 260.0° Bearing [Mag]: 206.0° to 269.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 20000.0 ft		
14	GVE FAA 698194-12 GVE [IFPA]	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	GVE FAA 698194-12	
ESV:		Bearing [True]: 173.0° to 218.0° Bearing [Mag]: 179.0° to 224.0°				Arc Distance: Out to 58.0 NM Altitude: 8000.0 to 16000.0 ft		
15	CSN FAA 682017-23 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-23	
ESV:		Bearing [True]: 191.0° to 206.0° Bearing [Mag]: 197.0° to 212.0°				Arc Distance: Out to 43.0 NM Altitude: 3900.0 to 15000.0 ft		
16	MOL FAA 901868-14 MOL [IFPA]	N37° 54' 03.1524", W079° 06' 22.2526"	5.0 W	40	3458.9	115.3	MOL FAA 901868-14	
ESV:		Bearing [True]: 65.0° to 95.0° Bearing [Mag]: 70.0° to 100.0°				Arc Distance: Out to 60.0 NM Altitude: 8000.0 to 17000.0 ft		
17	RIC FAA 704161-21 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-21	

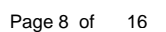
DME DME Assessment Results for FIXET4 path FIXET_RRSIN

User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
ESV:		Bearing [True]: 285.0° to 9.0° Bearing [Mag]: 294.0° to 18.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 16000.0 ft		
18	RIC FAA 704161-24 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-24	
ESV:		Bearing [True]: 290.0° to 339.0° Bearing [Mag]: 299.0° to 348.0°				Arc Distance: Out to 65.0 NM Altitude: 6500.0 to 16000.0 ft		
19	AML FAA 732650-49 AML [IFPA]	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	295.7	113.5	AML FAA 732650-49	
ESV:		Bearing [True]: 222.0° to 242.0° Bearing [Mag]: 230.0° to 250.0°				Arc Distance: Out to 130.0 NM Altitude: 14000.0 to 18000.0 ft		
20	FAK FAA 698146-10 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-10	
ESV:		Bearing [True]: 314.0° to 331.0° Bearing [Mag]: 320.0° to 337.0°				Arc Distance: Out to 82.0 NM Altitude: 12900.0 to 16000.0 ft		
21	HPW FAA 698117-16 HPW [IFPA]	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	70	114.35	HPW FAA 698117-16	
ESV:		Bearing [True]: 259.0° to 284.0° Bearing [Mag]: 265.0° to 290.0°				Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 18000.0 ft		
22	CVI FAA 861931-10 CVI [IFPA]	N36° 22' 22.4900", W076° 52' 17.5610"	9.0 W	40	65	114.6	CVI FAA 861931-10	
ESV:		Bearing [True]: 266.0° to 302.0° Bearing [Mag]: 275.0° to 311.0°				Arc Distance: Out to 110.0 NM Altitude: 8900.0 to 10000.0 ft		

DME DME Assessment Results for FIXET4 path FIXET_RRSIN

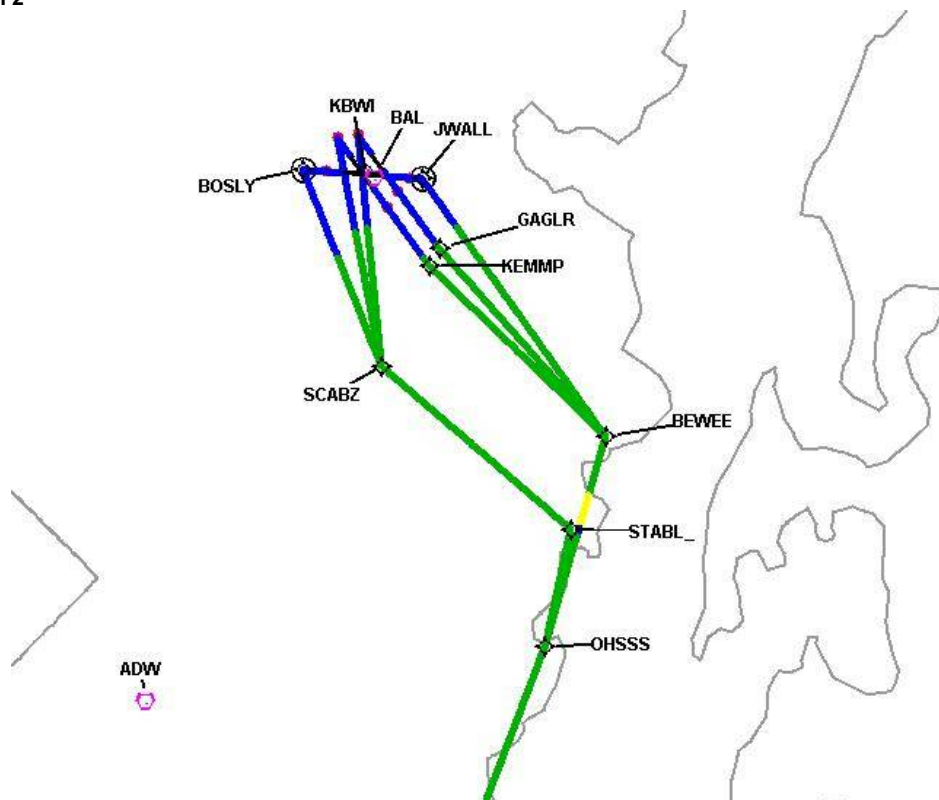


Graphic Depiction 1



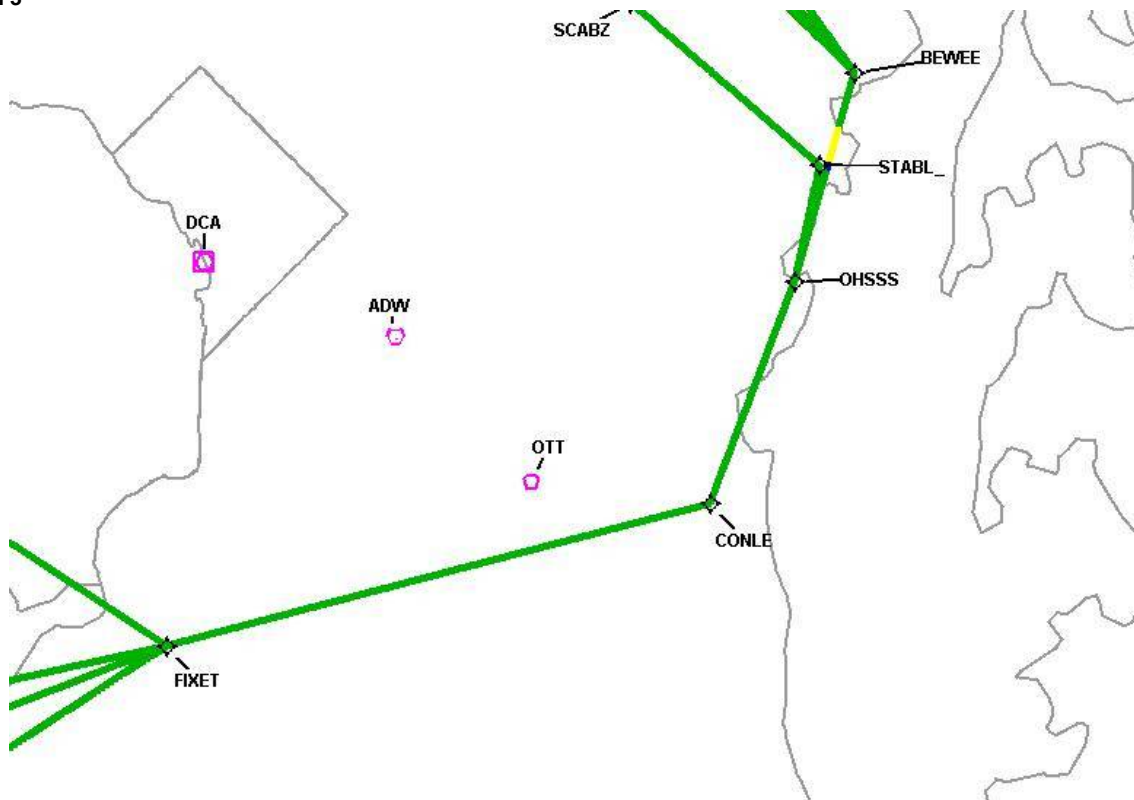
DME DME Assessment Results for FIXET4 path FIXET_RRSIN

Graphic Depiction 2

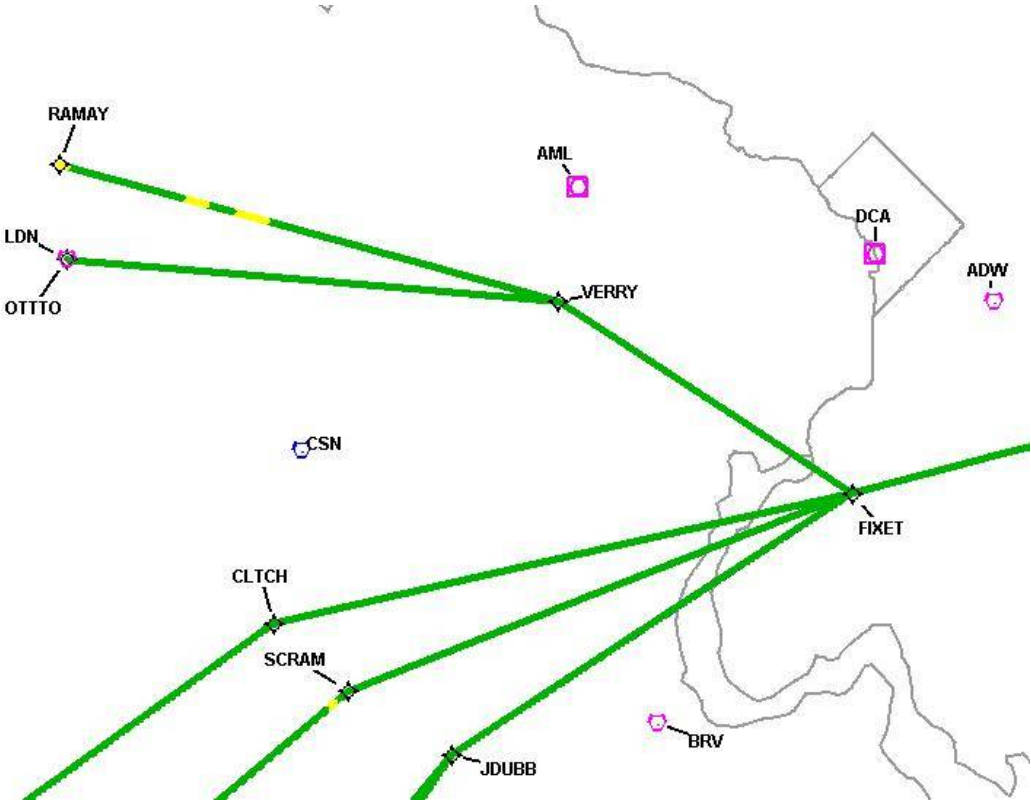


DME DME Assessment Results for FIXET4 path FIXET_RRSIN

Graphic Depiction 3

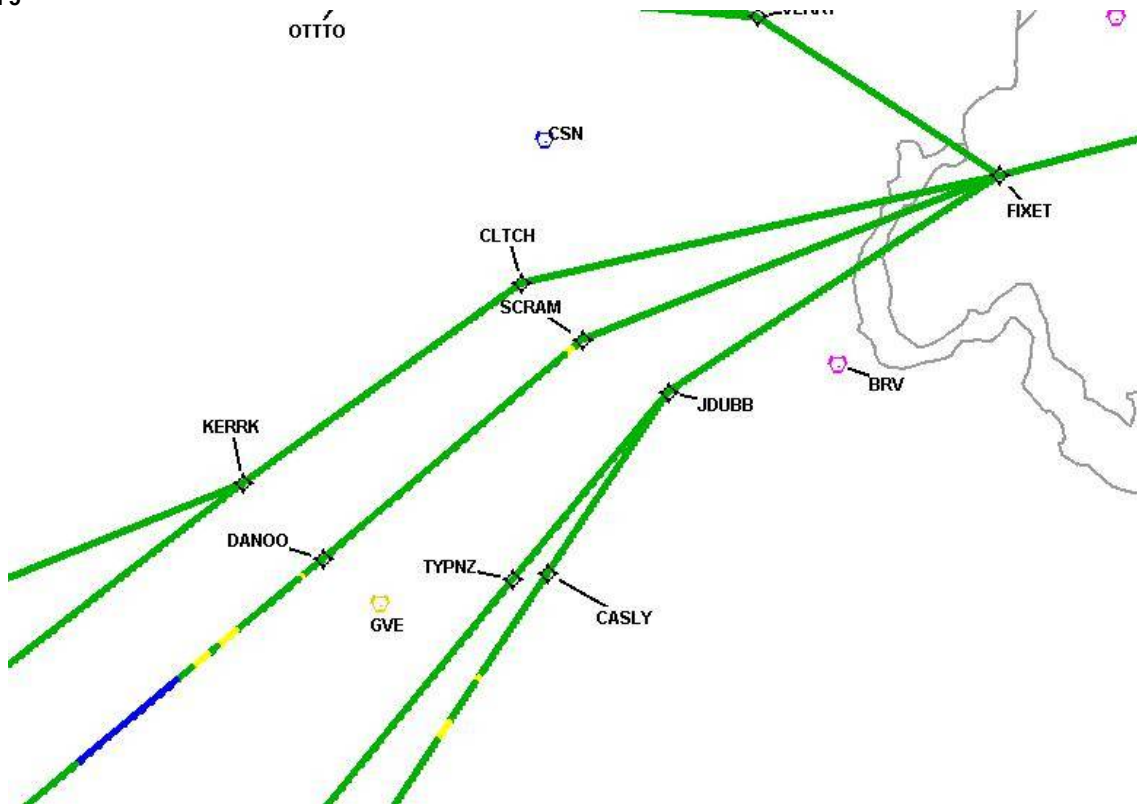


DME DME Assessment Results for FIXET4 path FIXET_RRSIN



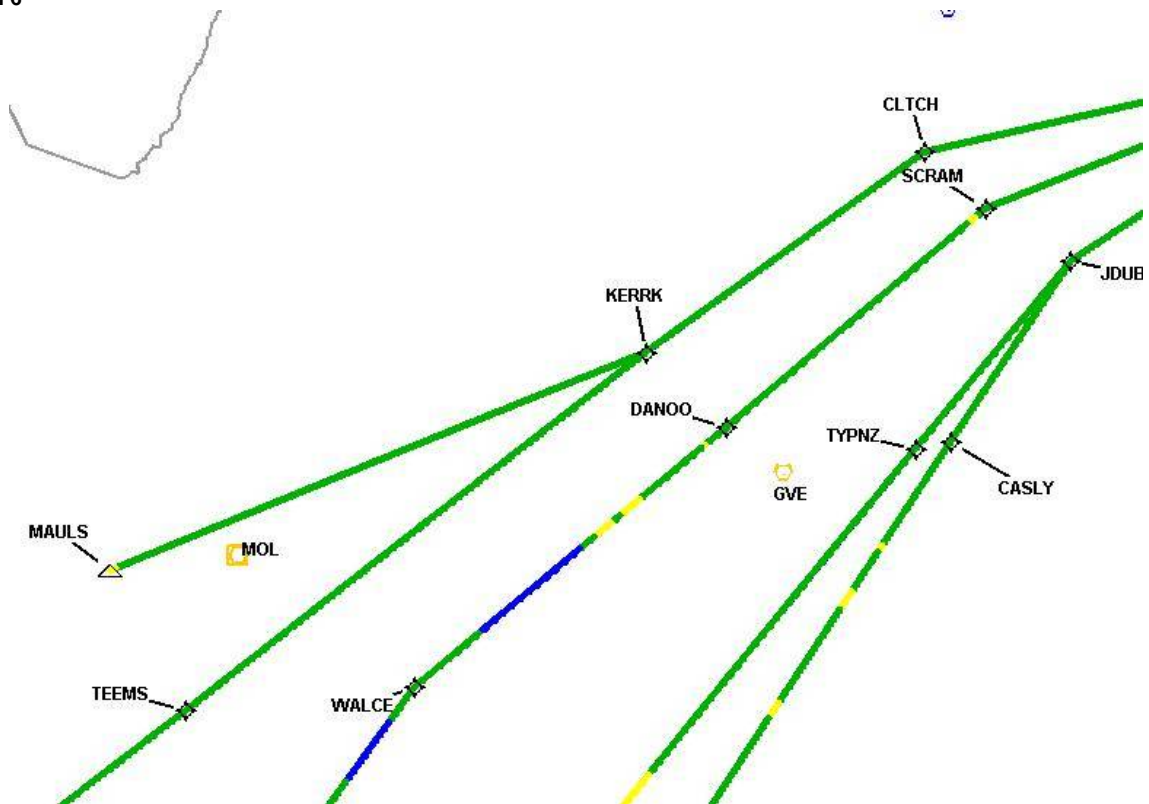
Graphic Depiction 5

DME DME Assessment Results for FIXET4 path FIXET_RRSIN



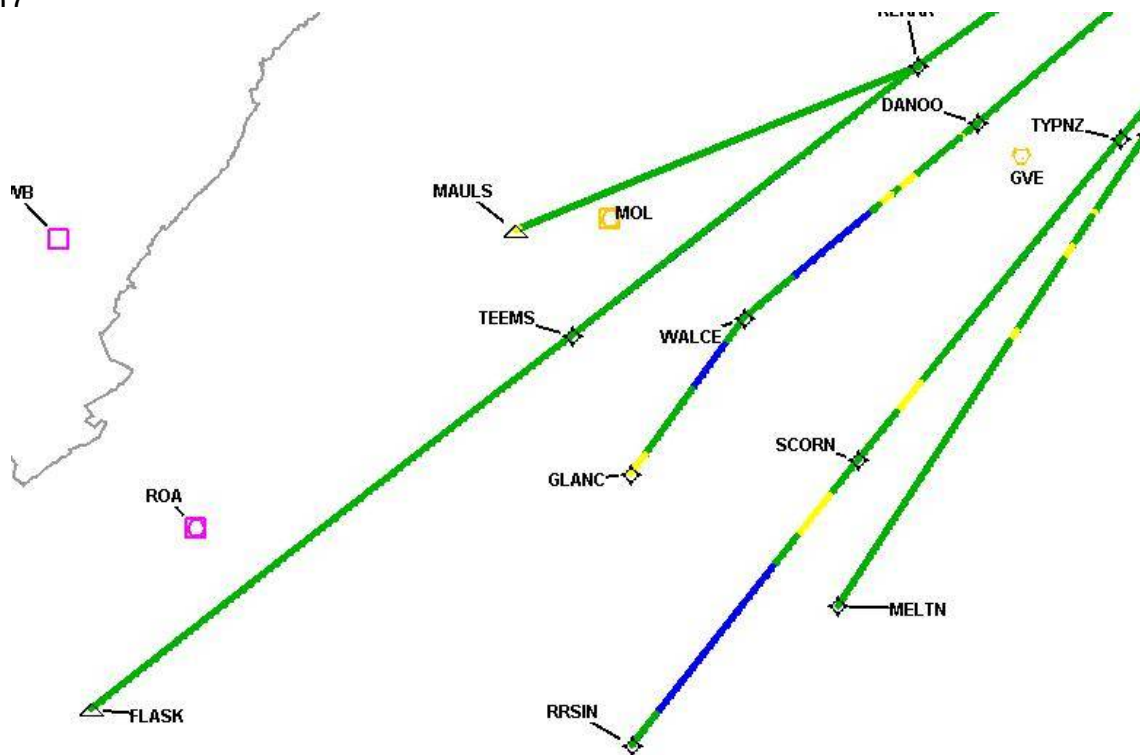
DME DME Assessment Results for FIXET4 path FIXET_RRSIN

Graphic Depiction 6



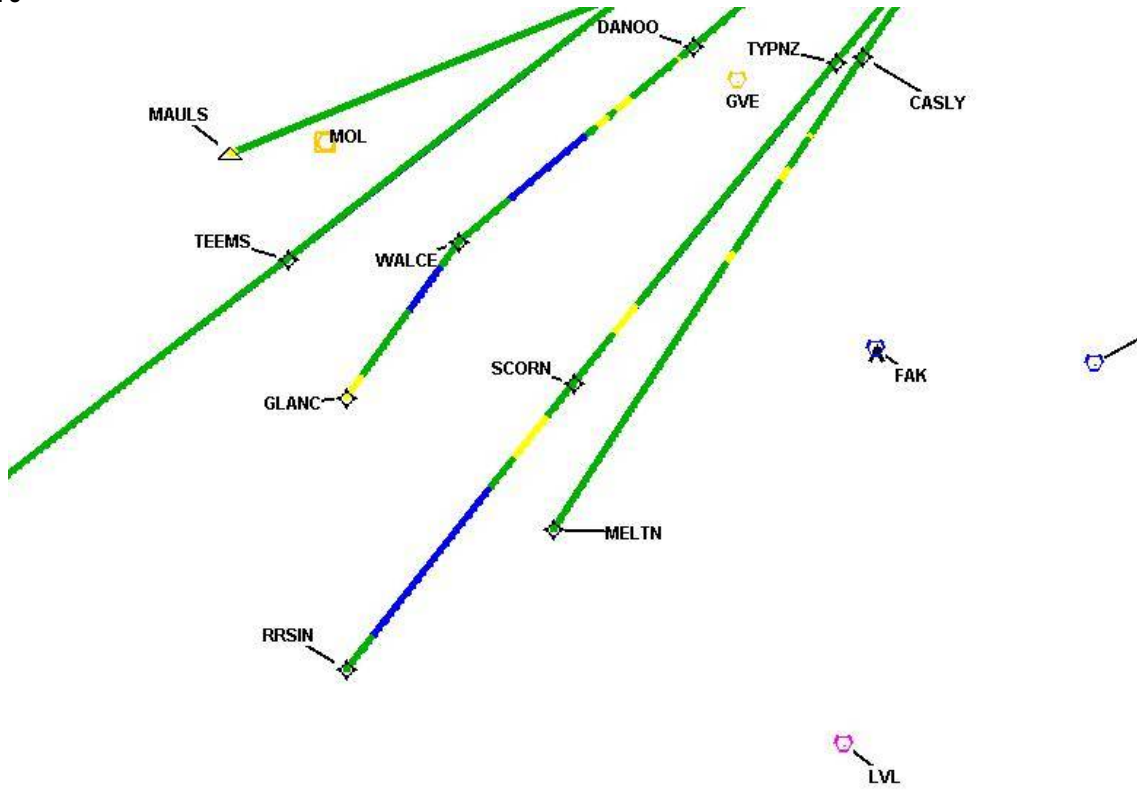
DME DME Assessment Results for FIXET4 path FIXET_RRSIN

Graphic Depiction 7



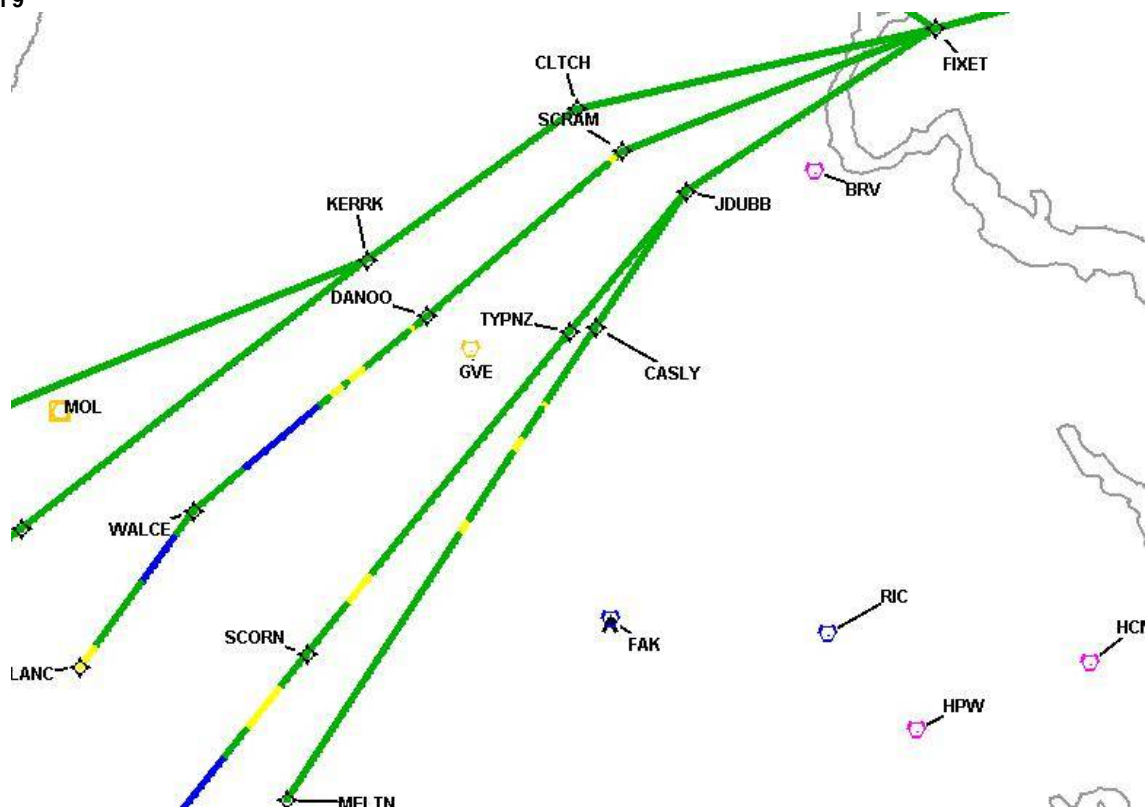
Graphic Depiction 8

DME DME Assessment Results for FIXET4 path FIXET_RRSIN



DME DME Assessment Results for FIXET4 path FIXET_RRSIN

Graphic Depiction 9



DME DME Assessment Results for FIXET4 path JDUBB_MELTN

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI FIXET4 (RNAV) SID DME DME_20231212 MITRE 3DEP 3 arcsec LOW ALT.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] FIXET4 20240207_1916 EST\JDUBB_MELTN\KBWI FIXET4 SID JDUBB MELTN 20240207_1916 EST.pdf
Procedure Name:	FIXET4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 19:16 EST
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
JDUBB	WP	N38° 17' 59.4100", W077° 38' 59.7600"	9000	VNAV	200	FLY_BY	TF
CASLY	WP	N38° 03' 14.4200", W077° 51' 39.7300"	9000	VNAV	200	FLY_BY	TF
MELTN	WP	N37° 12' 09.2200", W078° 34' 44.3300"	9000	VNAV	200	FLY_BY	TF

Flyability

Flight Type:	SID
Selected Airport:	KBWI [IFPA]
Climb Gradient:	None assigned
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for FIXET4 path JDUBB_MELTN

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	FKN

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	SBV	N36° 40' 30.1389", W079° 00' 52.1970"	5.0 W	40	L	IFPA	NO	Enabled	2.3 %	2.3 %
2	HPW	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	L	IFPA	NO	Enabled	30.1 %	30.1 %
3	RIC	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	H	IFPA	NO	Enabled	52.5 %	52.5 %
4	FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	H	IFPA	NO	Enabled	78.6 %	78.6 %
5	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H	IFPA	NO	Enabled	90.3 %	90.3 %
6	GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	H	IFPA	NO	Enabled	99.2 %	99.2 %
7	AML	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	L	IFPA	NO	Enabled	32.8 %	32.8 %
8	FKN	N36° 42' 51.2443", W077° 00' 44.5488"	9.0 W	40	L	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CSN	GVE	RIC	AML		
10.3	RIC	GVE	CSN	FAK	AML	
20.8	FAK	GVE	AML	RIC		
26.1	FAK	GVE	RIC			
26.9	FAK	GVE				
27.9						
28.5	RIC	CSN	GVE			
31.1	CSN	RIC	GVE	FAK		
43.3	CSN	FAK	GVE			
55.4	HPW	GVE	CSN	FAK		
75.9	GVE	HPW	CSN			
77.4	GVE	HPW	CSN	SBV		

DME DME Assessment Results for FIXET4 path JDUBB_MELTN

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N37° 54' 51.1379", W077° 58' 49.1195"	N37° 54' 23.4721", W077° 59' 12.6651"	0.5555

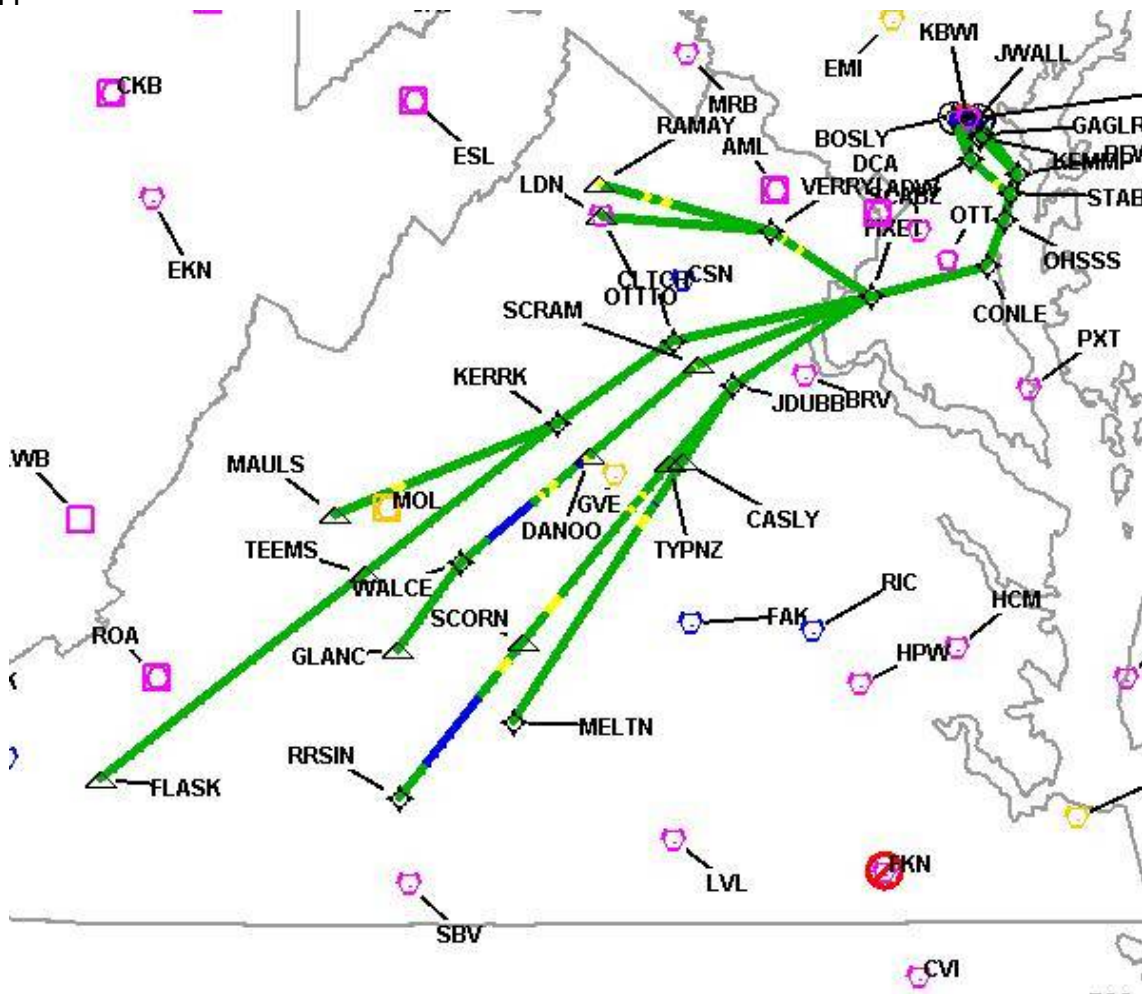
Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
JDUBB	CASLY	AML, FAK, GVE, RIC, CSN	
CASLY	MELTN	AML, FAK, SBV, GVE, RIC, HPW, CSN	

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GVE FAA 698194-12 GVE [IFPA]	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	GVE FAA 698194-12	
ESV:		Bearing [True]: 173.0° to 218.0° Bearing [Mag]: 179.0° to 224.0°				Arc Distance: Out to 58.0 NM Altitude: 8000.0 to 16000.0 ft		
2	AML FAA 732650-41 AML [IFPA]	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	295.7	113.5	AML FAA 732650-41	
ESV:		Bearing [True]: 172.0° to 242.0° Bearing [Mag]: 180.0° to 250.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 20000.0 ft		
3	CSN FAA 682017-12 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-12	
ESV:		Bearing [True]: 183.0° to 215.0° Bearing [Mag]: 189.0° to 221.0°				Arc Distance: Out to 96.0 NM Altitude: 7500.0 to 16000.0 ft		
4	RIC FAA 704161-21 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-21	
ESV:		Bearing [True]: 285.0° to 9.0° Bearing [Mag]: 294.0° to 18.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 16000.0 ft		
5	FAK FAA 698146-14 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-14	
ESV:		Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
6	HPW FAA 698117-16 HPW [IFPA]	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	70	114.35	HPW FAA 698117-16	
ESV:		Bearing [True]: 259.0° to 284.0° Bearing [Mag]: 265.0° to 290.0°				Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 18000.0 ft		



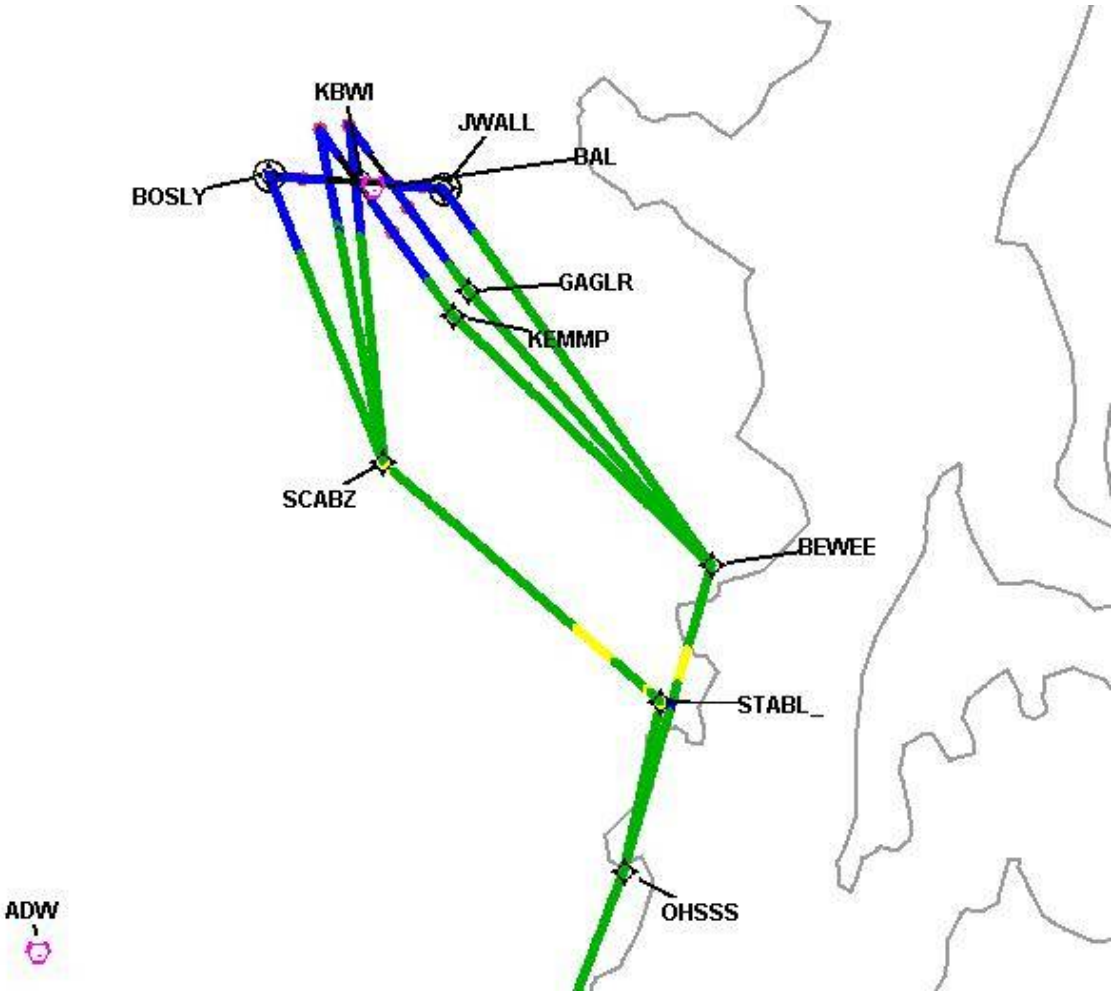
DME DME Assessment Results for FIXET4 path JDUBB_MELTN

Graphic Depiction 1



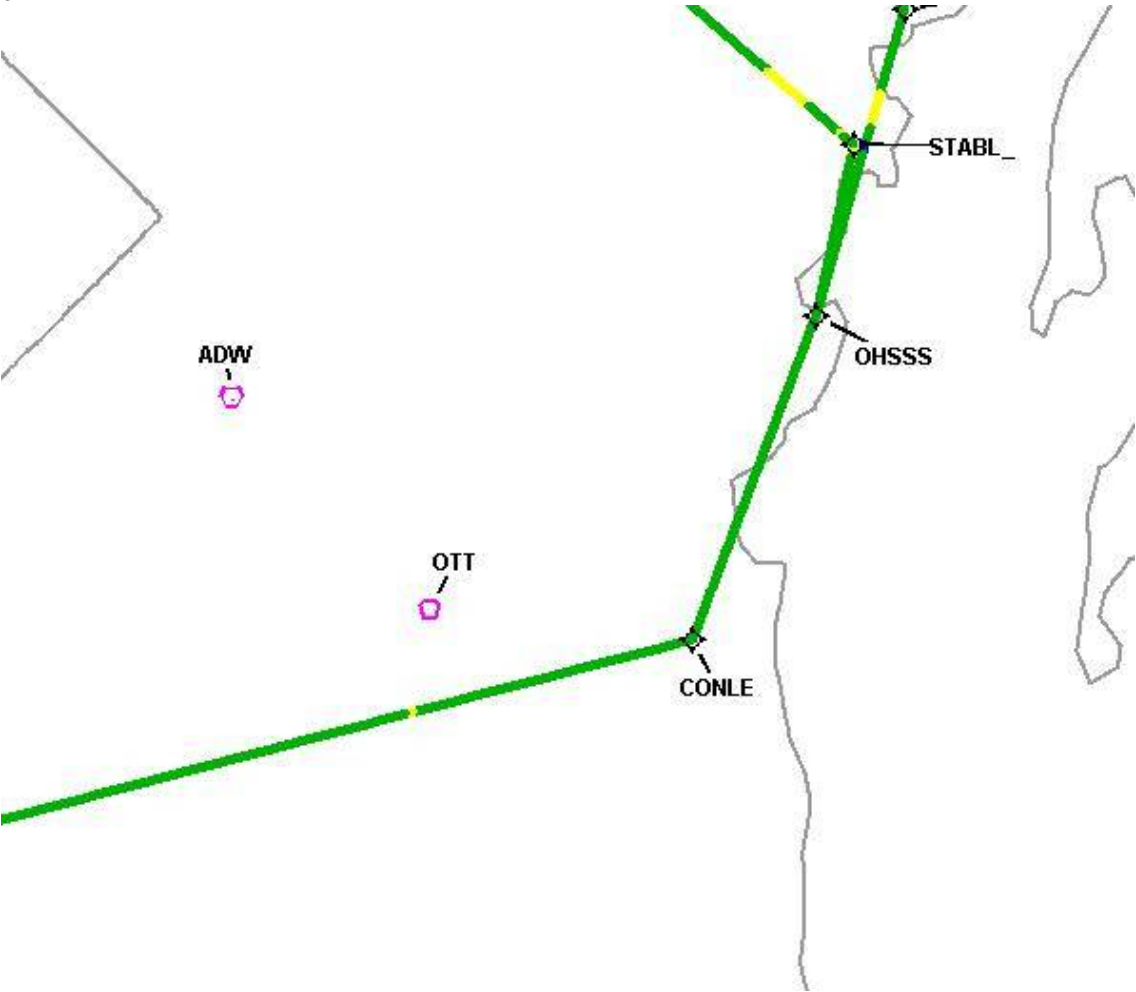
DME DME Assessment Results for FIXET4 path JDUBB_MELTN

Graphic Depiction 2



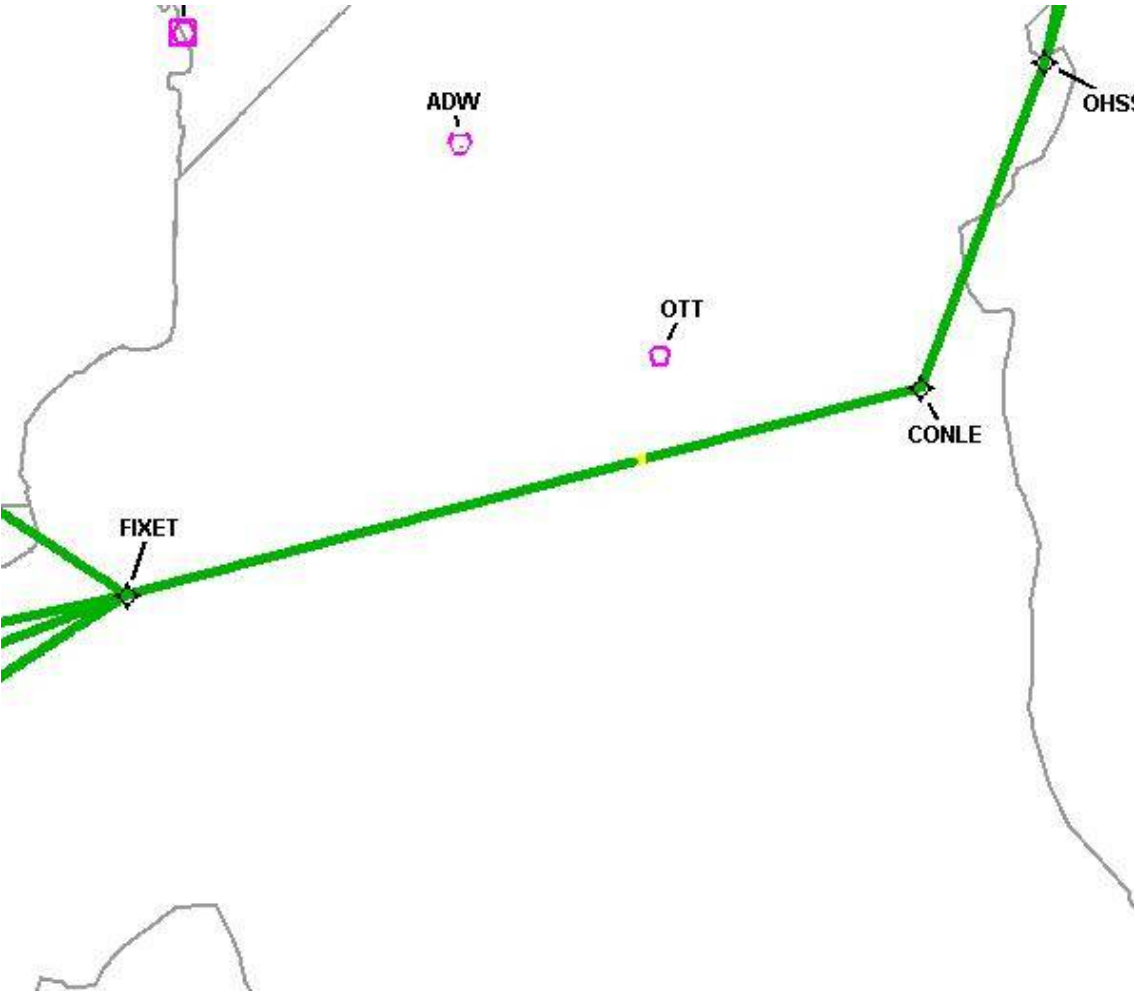
DME DME Assessment Results for FIXET4 path JDUBB_MELTN

Graphic Depiction 3



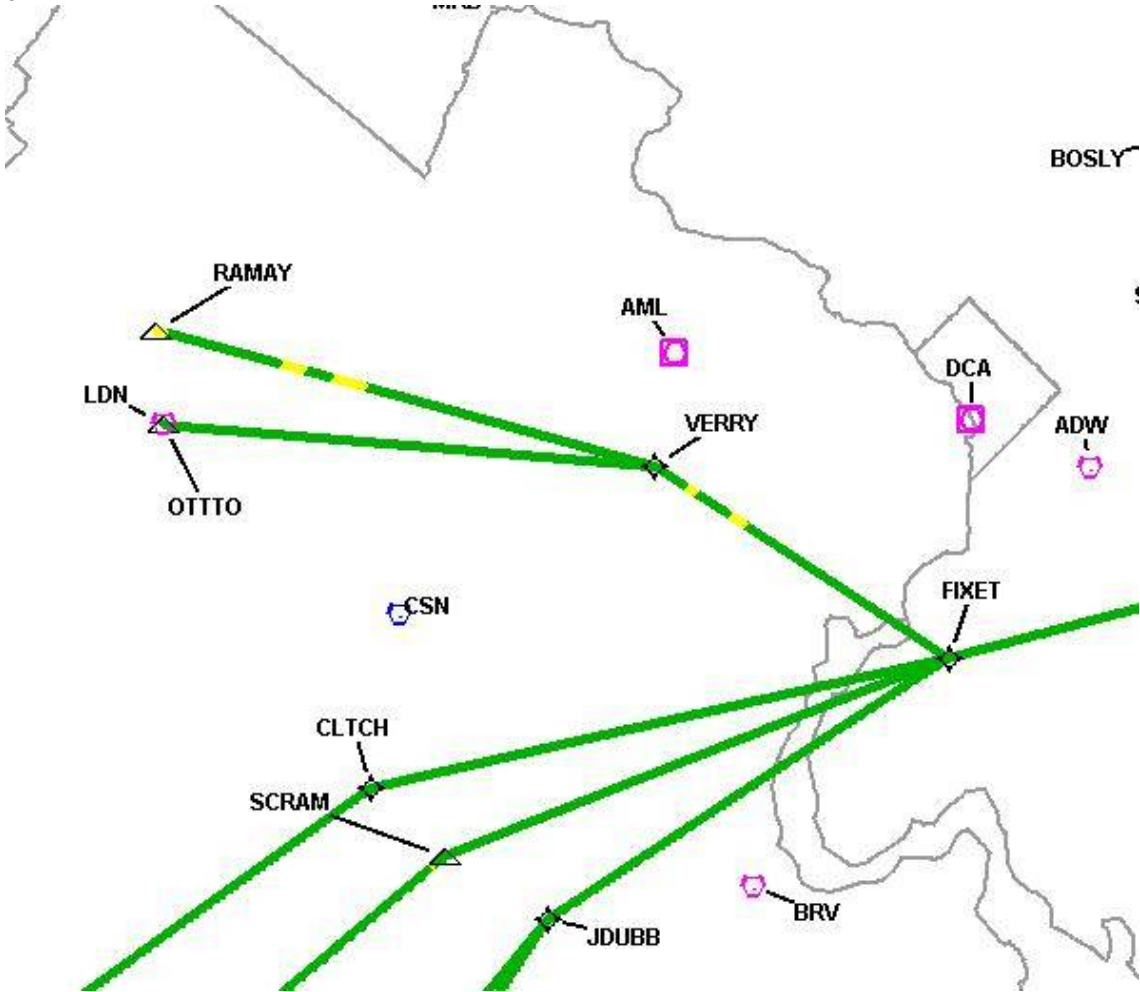
DME DME Assessment Results for FIXET4 path JDUBB_MELTN

Graphic Depiction 4

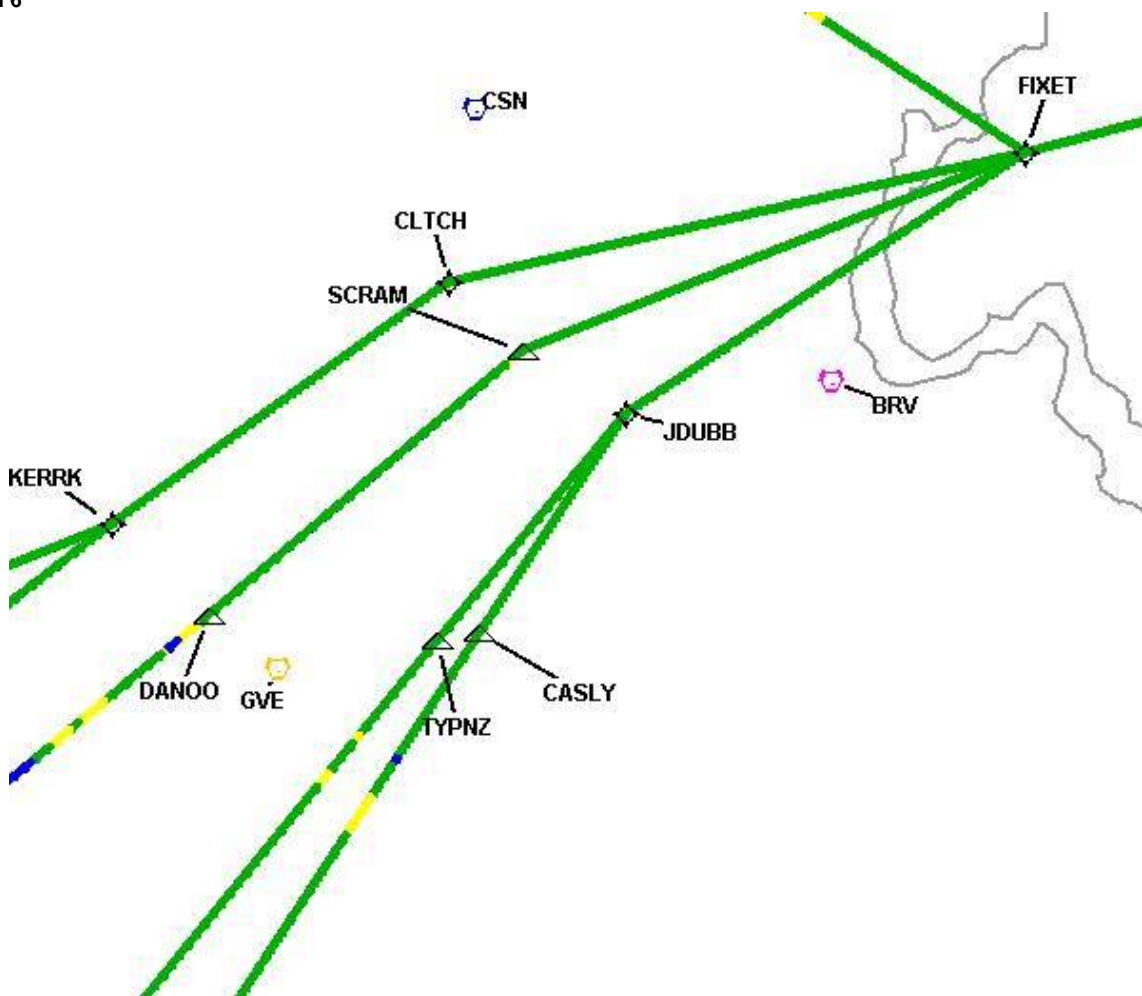


DME DME Assessment Results for FIXET4 path JDUBB_MELTN

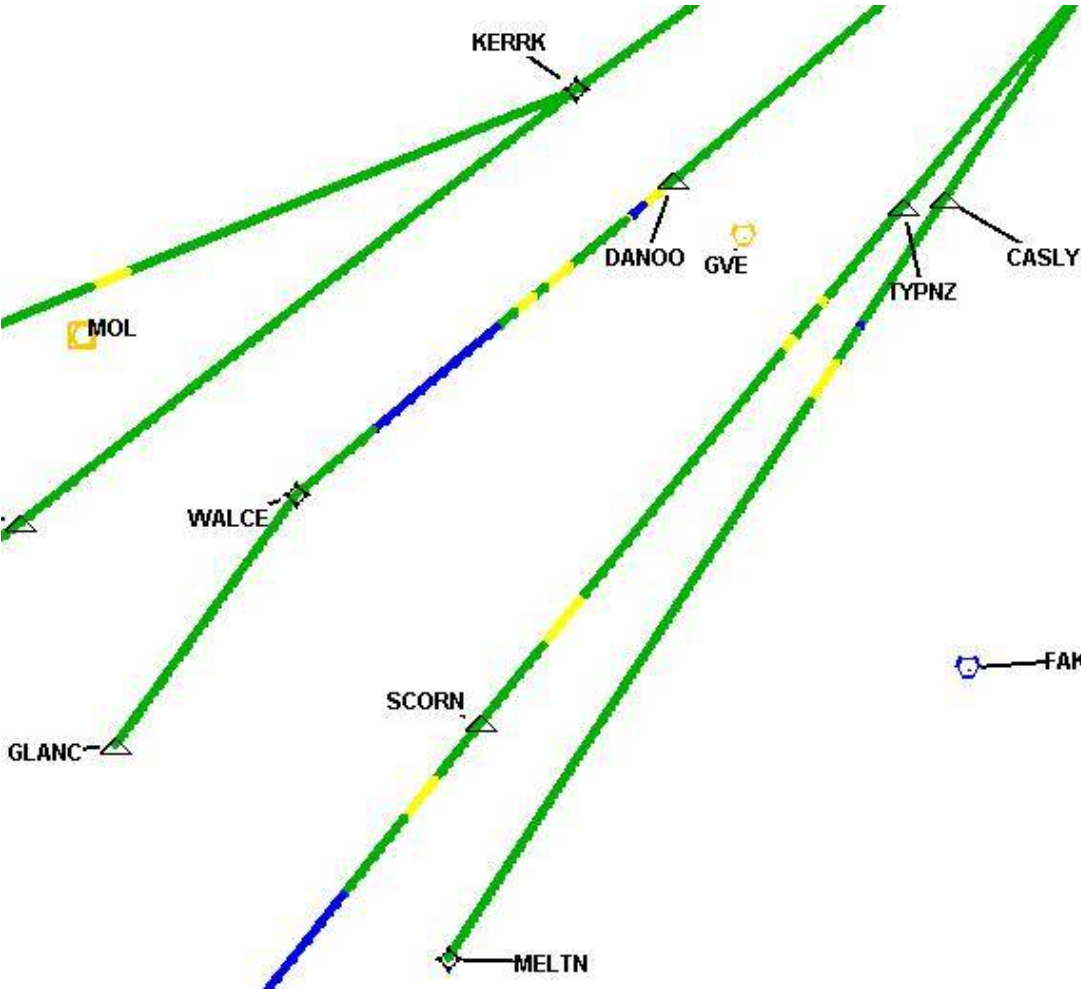
Graphic Depiction 5



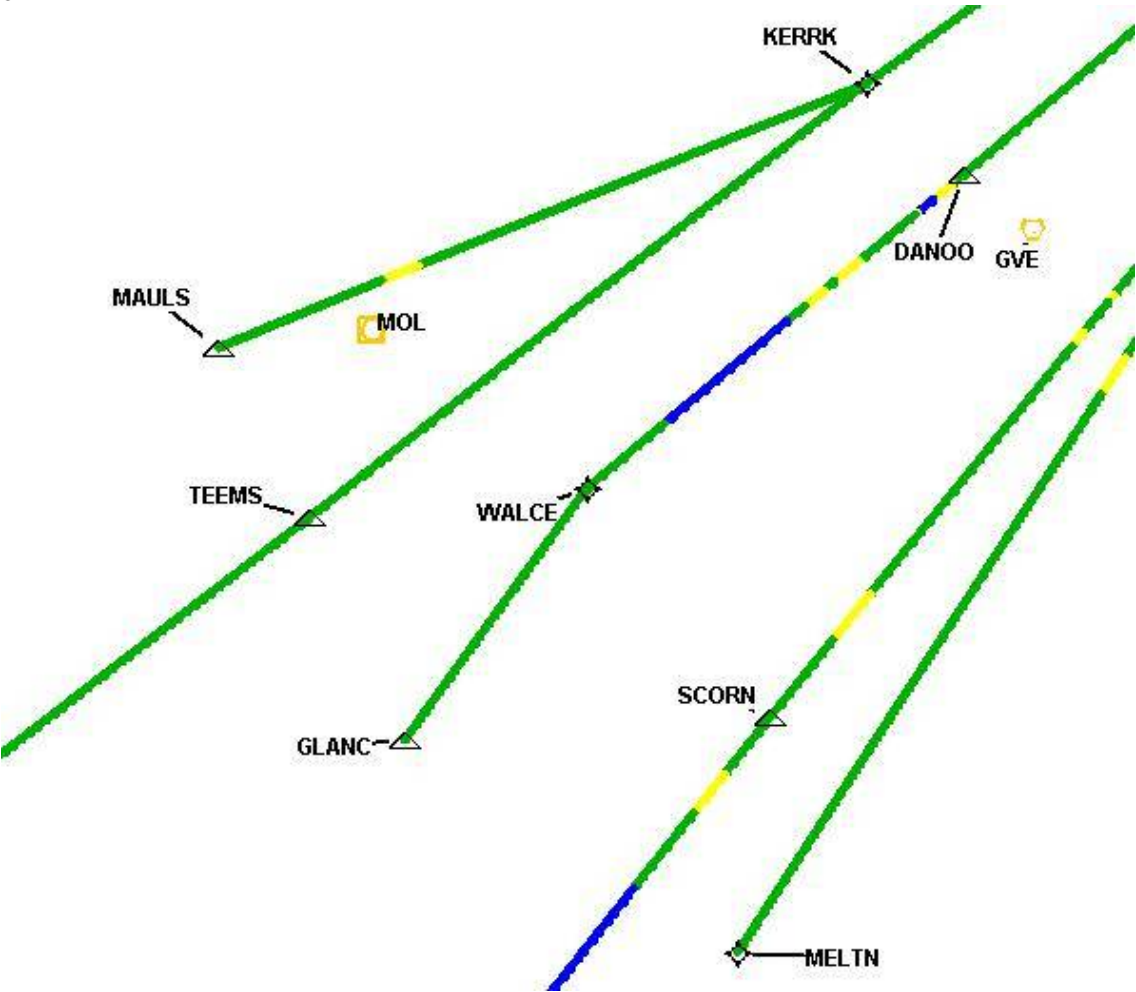
Graphic Depiction 6



Graphic Depiction 7

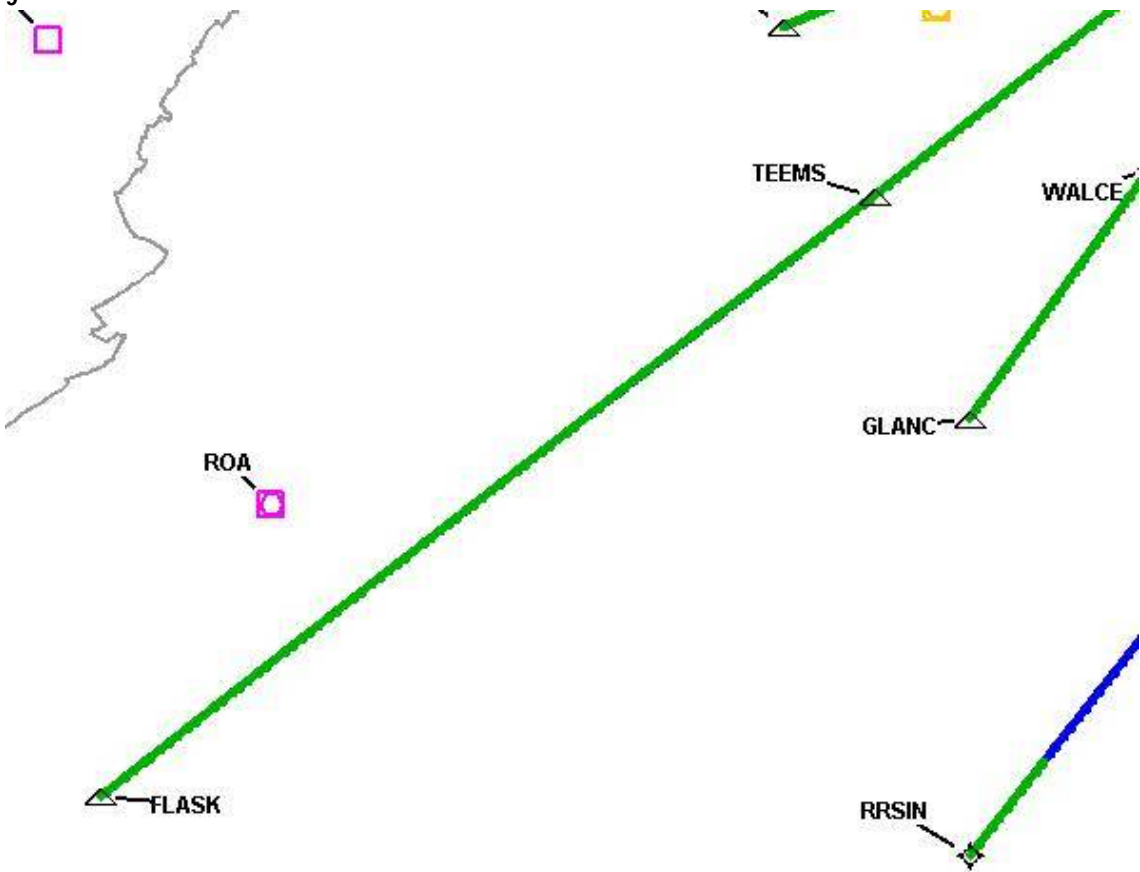


Graphic Depiction 8



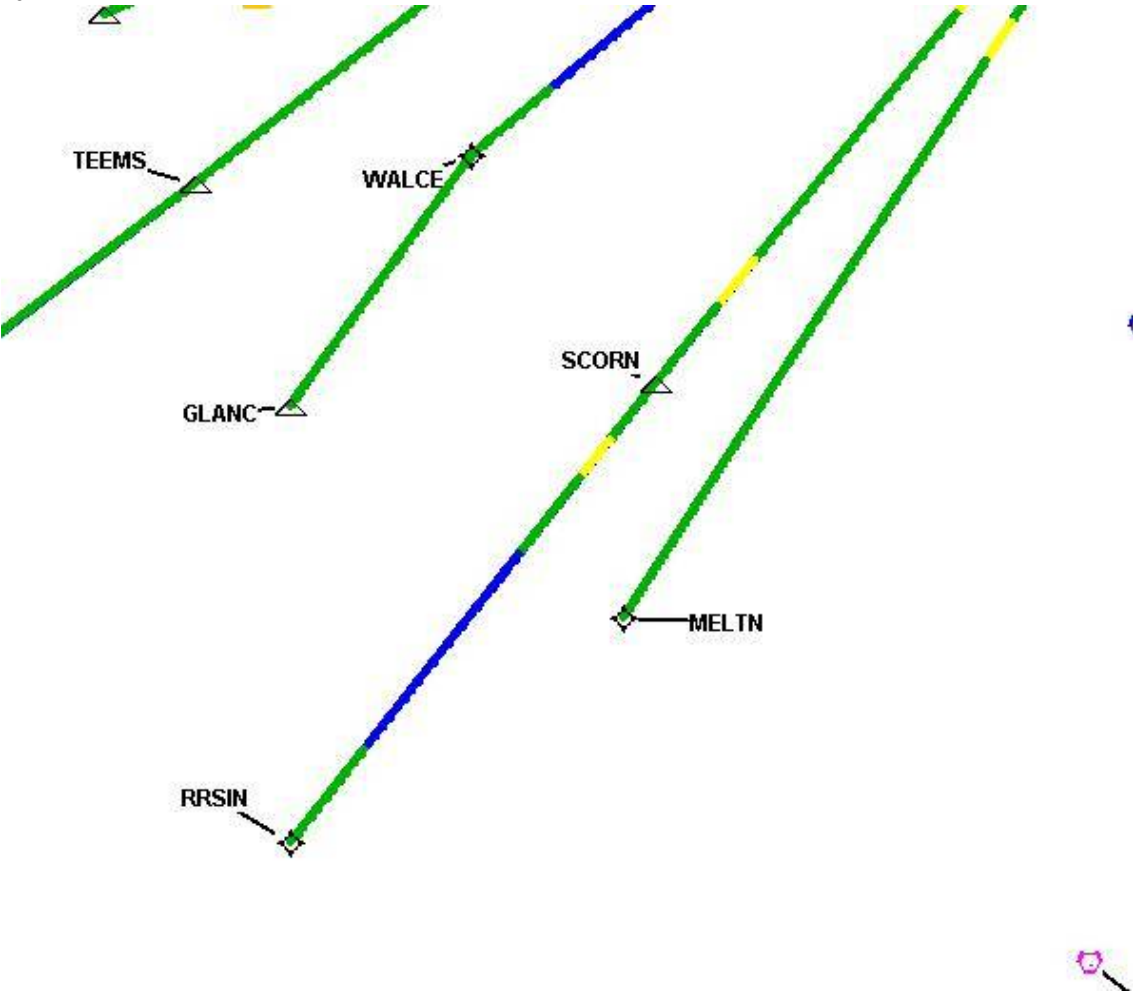
DME DME Assessment Results for FIXET4 path JDUBB_MELTN

Graphic Depiction 9

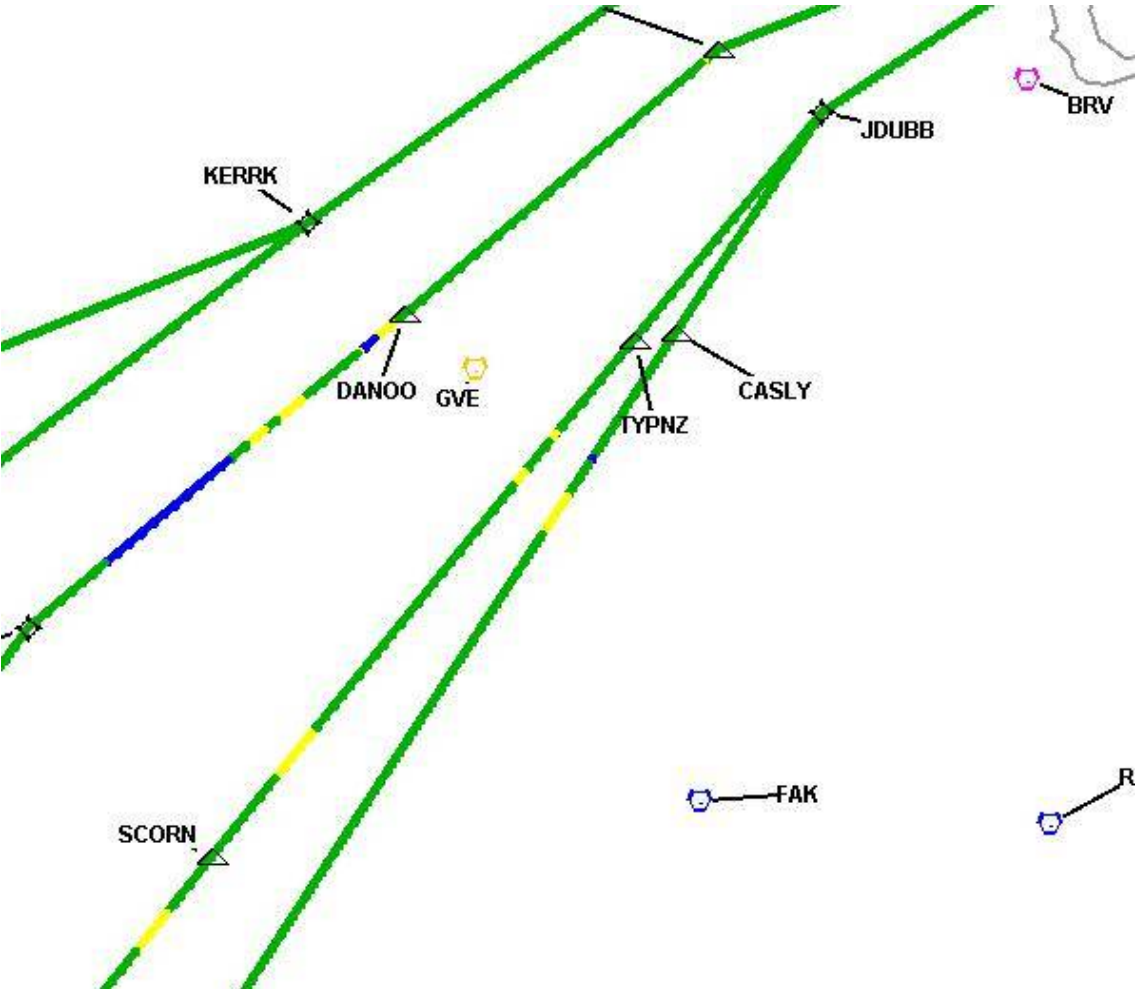


DME DME Assessment Results for FIXET4 path JDUBB_MELTN

Graphic Depiction 10

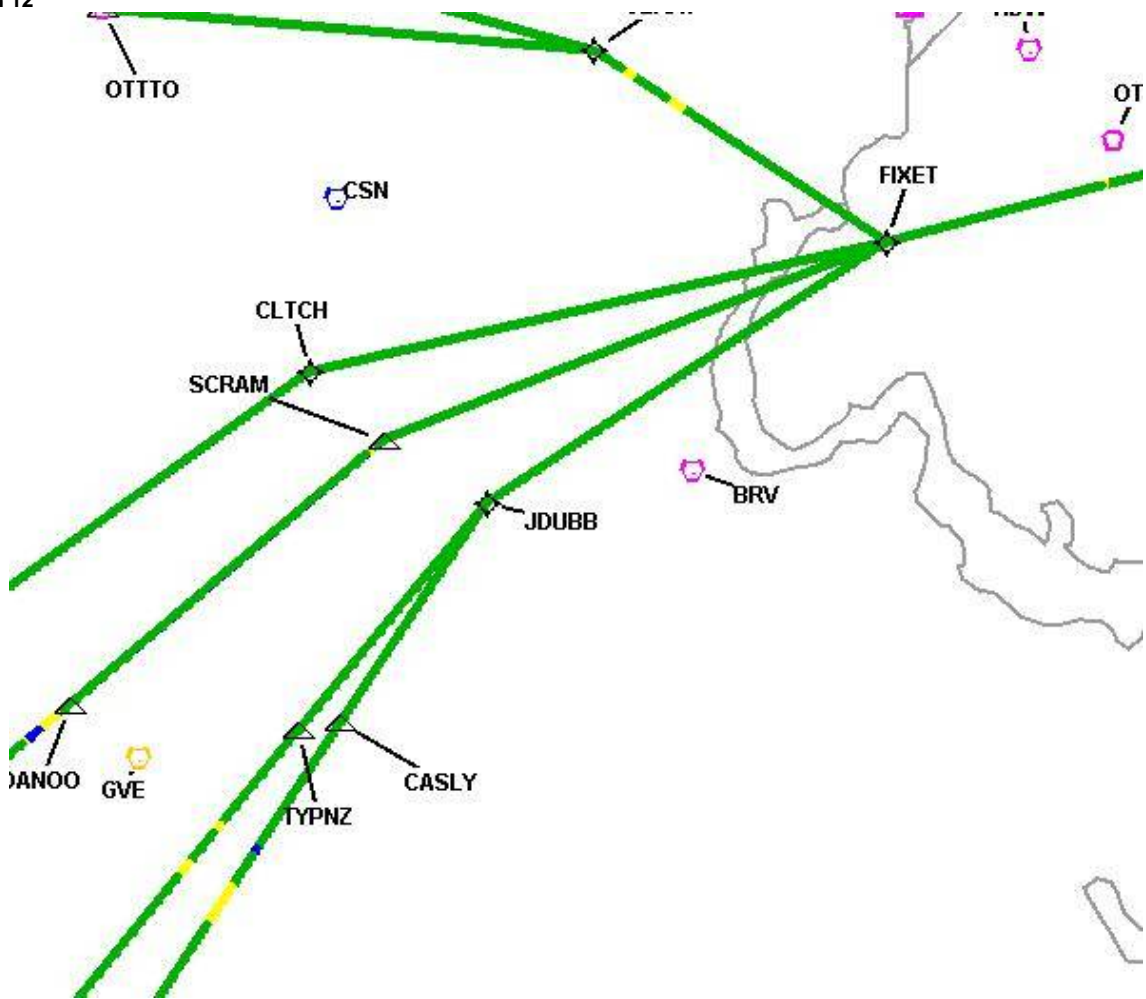


Graphic Depiction 11



DME DME Assessment Results for FIXET4 path JDUBB_MELTN

Graphic Depiction 12



DME DME Assessment Results for FIXET4 path KERRK_MAULS

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI FIXET4 (RNAV) SID DME DME_20231212 MITRE 3DEP 3 arcsec LOW ALT.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] FIXET4 20240207_1916 EST\KERRK_MAULS\KBWI FIXET4 SID KERRK MAULS 20240207_1916 EST.pdf
Procedure Name:	FIXET4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 19:16 EST
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KERRK	WP	N38° 10' 33.7700", W078° 23' 35.8600"	15000	VNAV	240	FLY_BY	TF
MAULS	WP	N37° 52' 49.3600", W079° 19' 49.1900"	16000	VNAV	240	FLY_BY	TF

Flyability

Flight Type:	SID
Selected Airport:	KBWI [IFPA]
Climb Gradient:	None assigned
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for FIXET4 path KERRK_MAULS

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	FKN

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	RIC	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	H	IFPA	NO	Enabled	98.7 %	98.7 %
2	FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	H	IFPA	NO	Enabled	100 %	100 %
3	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H	IFPA	NO	Enabled	100 %	100 %
4	GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	H	IFPA	NO	Enabled	74.5 %	74.5 %
5	MOL	N37° 54' 03.1524", W079° 06' 22.2526"	5.0 W	40	L	IFPA	NO	Enabled	74.5 %	74.5 %
6	FKN	N36° 42' 51.2443", W077° 00' 44.5488"	9.0 W	40	L	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CSN	GVE	RIC	MOL	FAK	
35.7	CSN	FAK	RIC			
47.3	CSN	FAK				

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

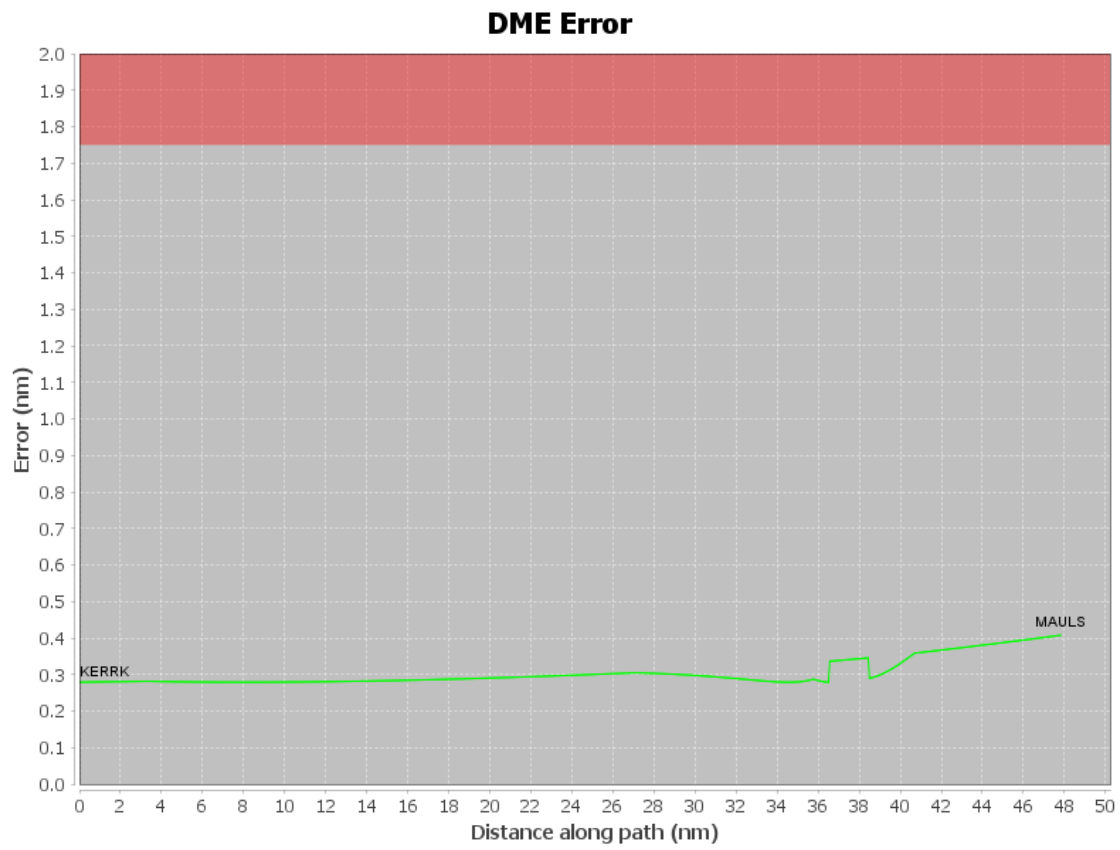
Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KERRK	MAULS	FAK, GVE, MOL, RIC, CSN	

DME DME Assessment Results for FIXET4 path KERRK_MAULS

User Data Files

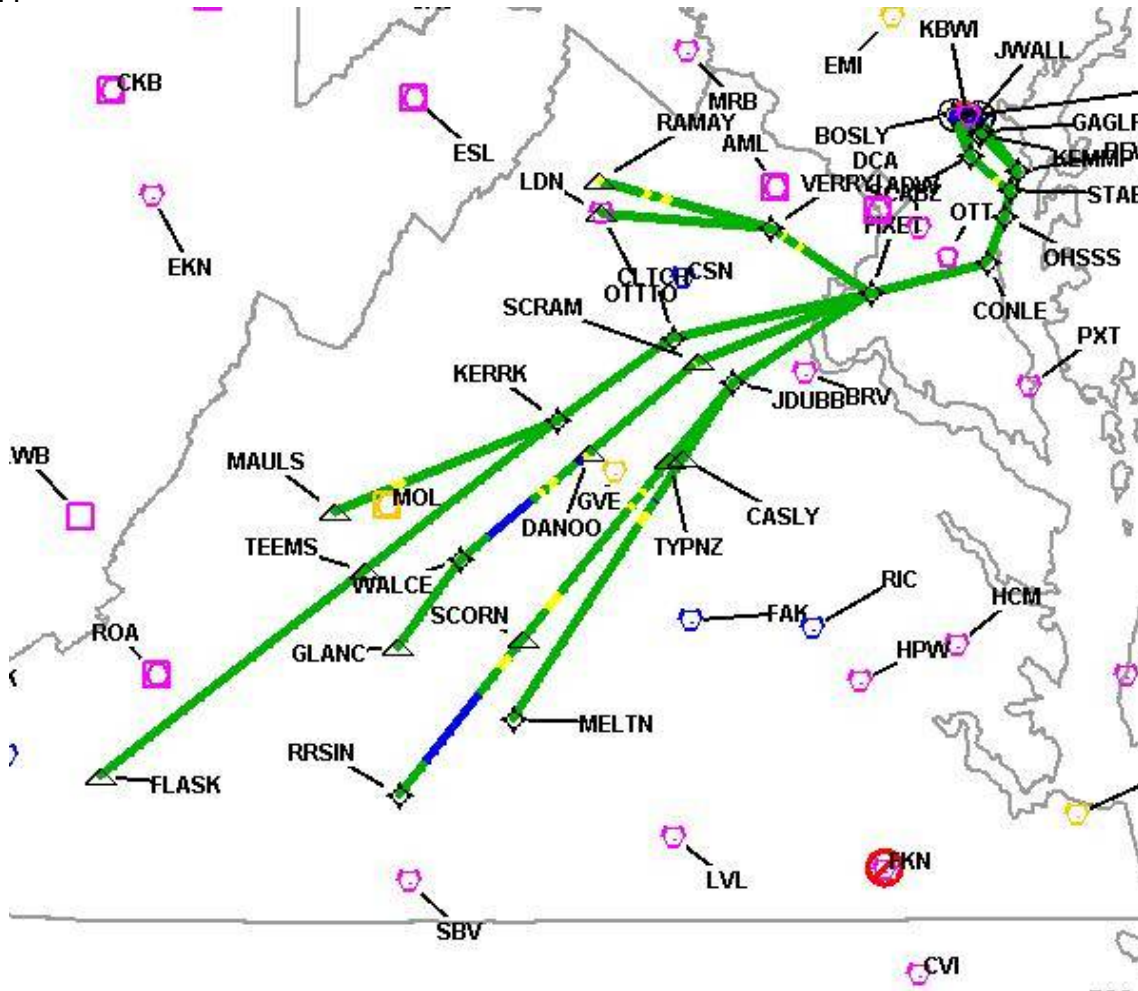
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GVE FAA 698194-12 GVE [IFPA]	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	GVE FAA 698194-12	
ESV:		Bearing [True]: 173.0° to 218.0° Bearing [Mag]: 179.0° to 224.0°				Arc Distance: Out to 58.0 NM Altitude: 8000.0 to 16000.0 ft		
2	AML FAA 732650-41 AML [IFPA]	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	295.7	113.5	AML FAA 732650-41	
ESV:		Bearing [True]: 172.0° to 242.0° Bearing [Mag]: 180.0° to 250.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 20000.0 ft		
3	CSN FAA 682017-12 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-12	
ESV:		Bearing [True]: 183.0° to 215.0° Bearing [Mag]: 189.0° to 221.0°				Arc Distance: Out to 96.0 NM Altitude: 7500.0 to 16000.0 ft		
4	RIC FAA 704161-21 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-21	
ESV:		Bearing [True]: 285.0° to 9.0° Bearing [Mag]: 294.0° to 18.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 16000.0 ft		
5	FAK FAA 698146-14 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-14	
ESV:		Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
6	HPW FAA 698117-16 HPW [IFPA]	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	70	114.35	HPW FAA 698117-16	
ESV:		Bearing [True]: 259.0° to 284.0° Bearing [Mag]: 265.0° to 290.0°				Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 18000.0 ft		

DME DME Assessment Results for FIXET4 path KERRK_MAULS



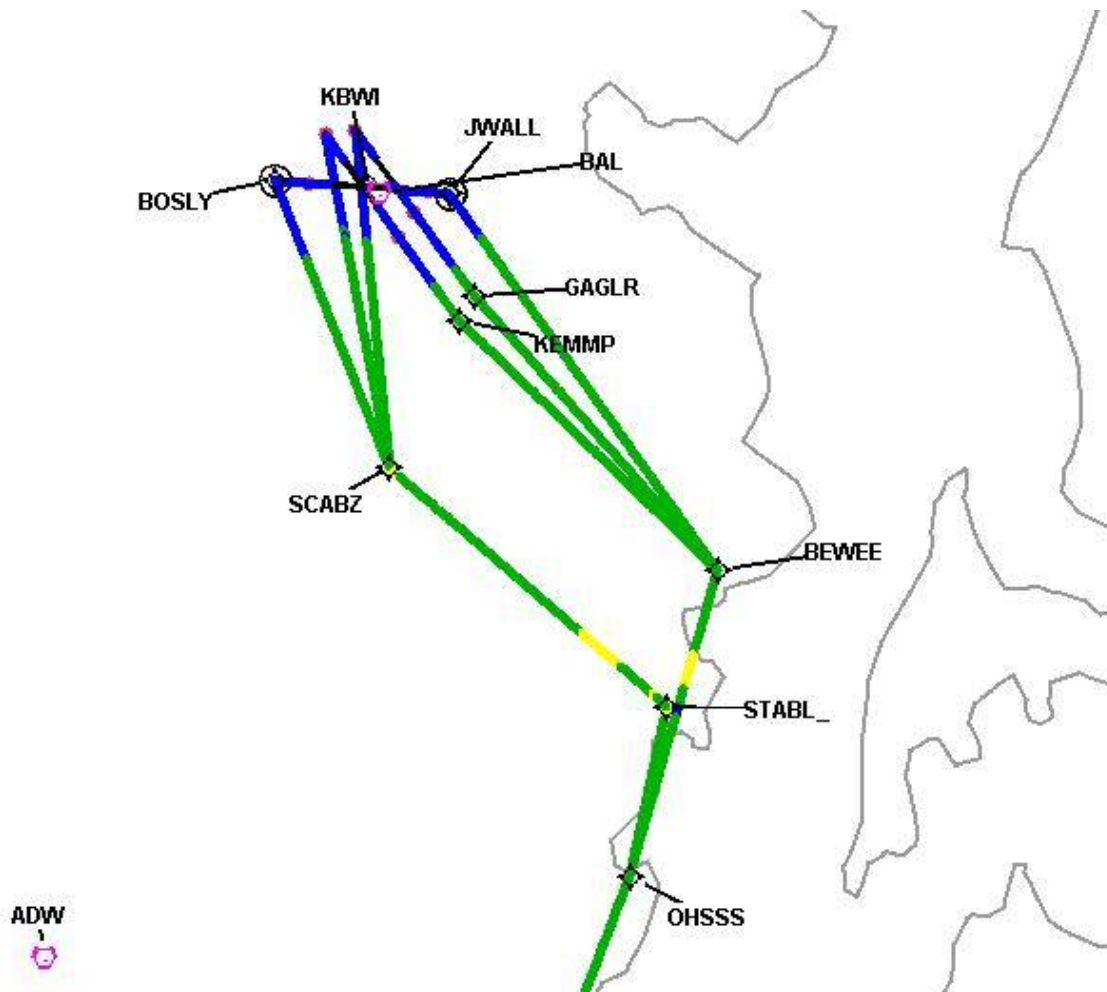
DME DME Assessment Results for FIXET4 path KERRK_MAULS

Graphic Depiction 1



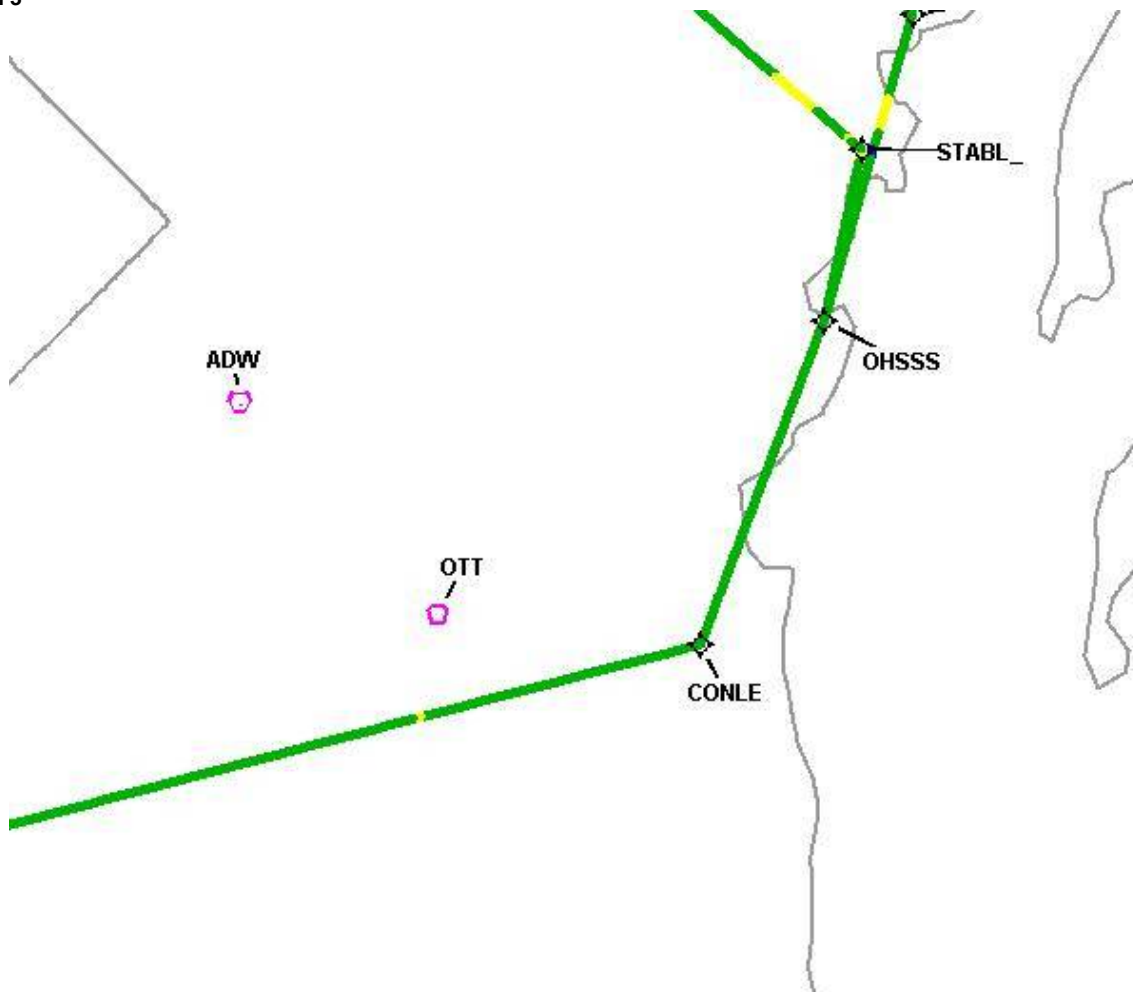
DME DME Assessment Results for FIXET4 path KERRK_MAULS

Graphic Depiction 2



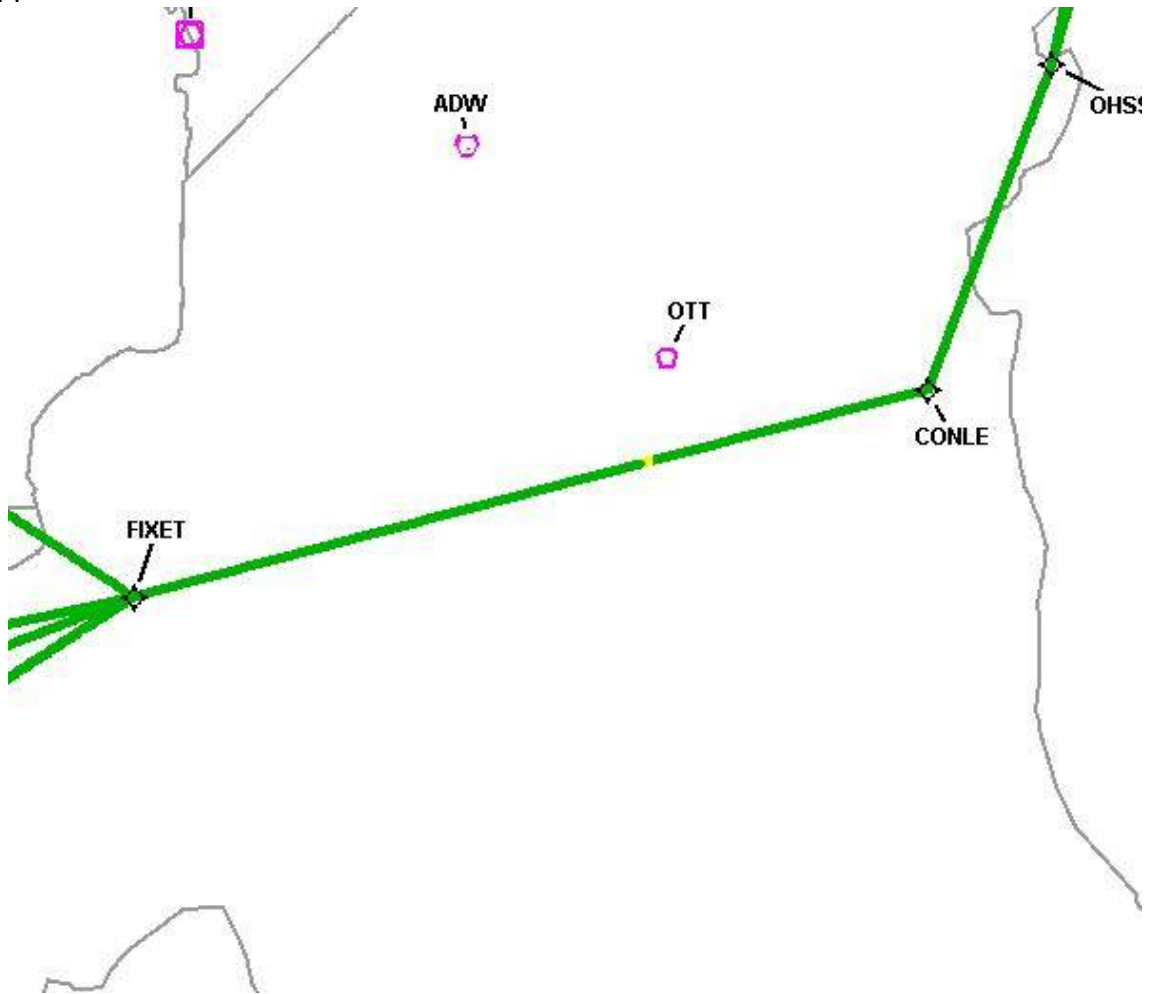
DME DME Assessment Results for FIXET4 path KERRK_MAULS

Graphic Depiction 3



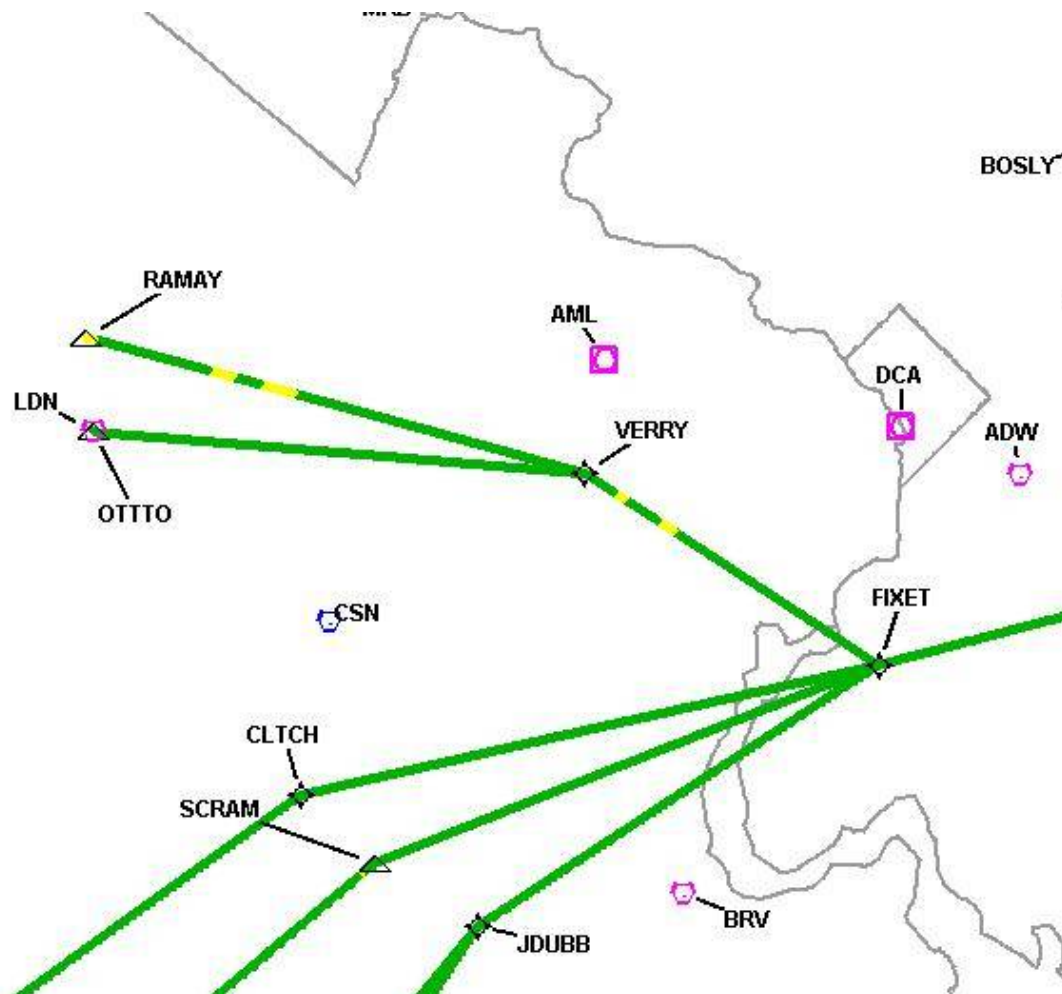
DME DME Assessment Results for FIXET4 path KERRK_MAULS

Graphic Depiction 4



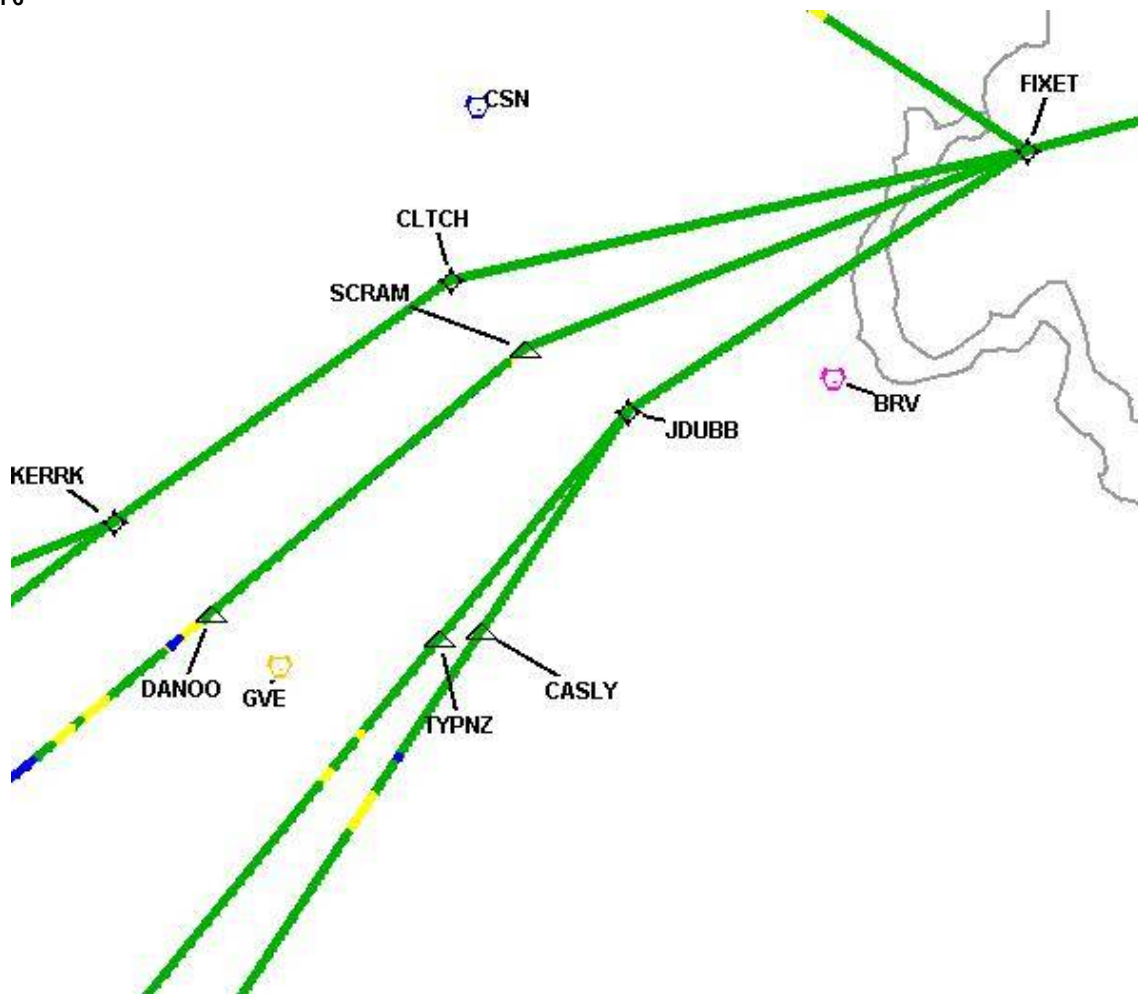
DME DME Assessment Results for FIXET4 path KERRK_MAULS

Graphic Depiction 5



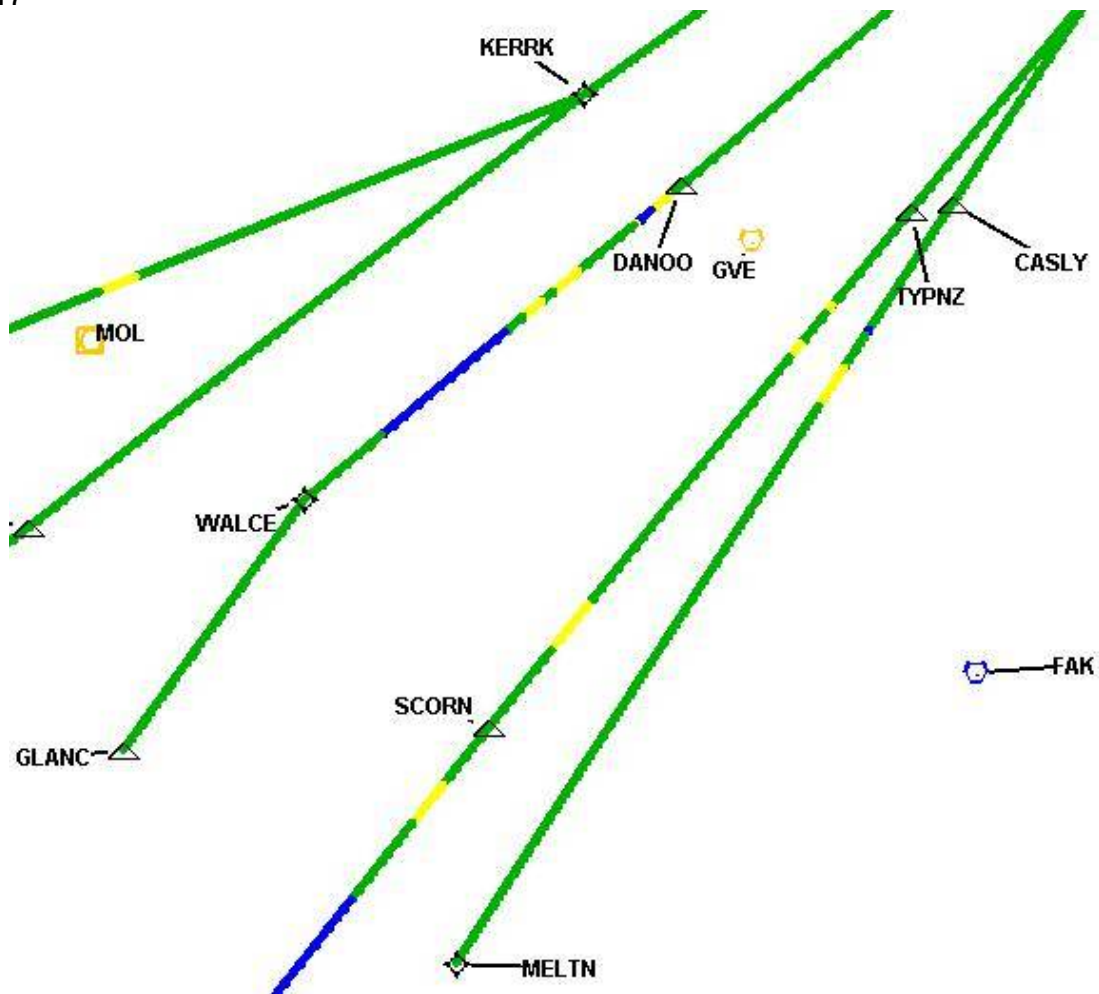
DME DME Assessment Results for FIXET4 path KERRK_MAULS

Graphic Depiction 6



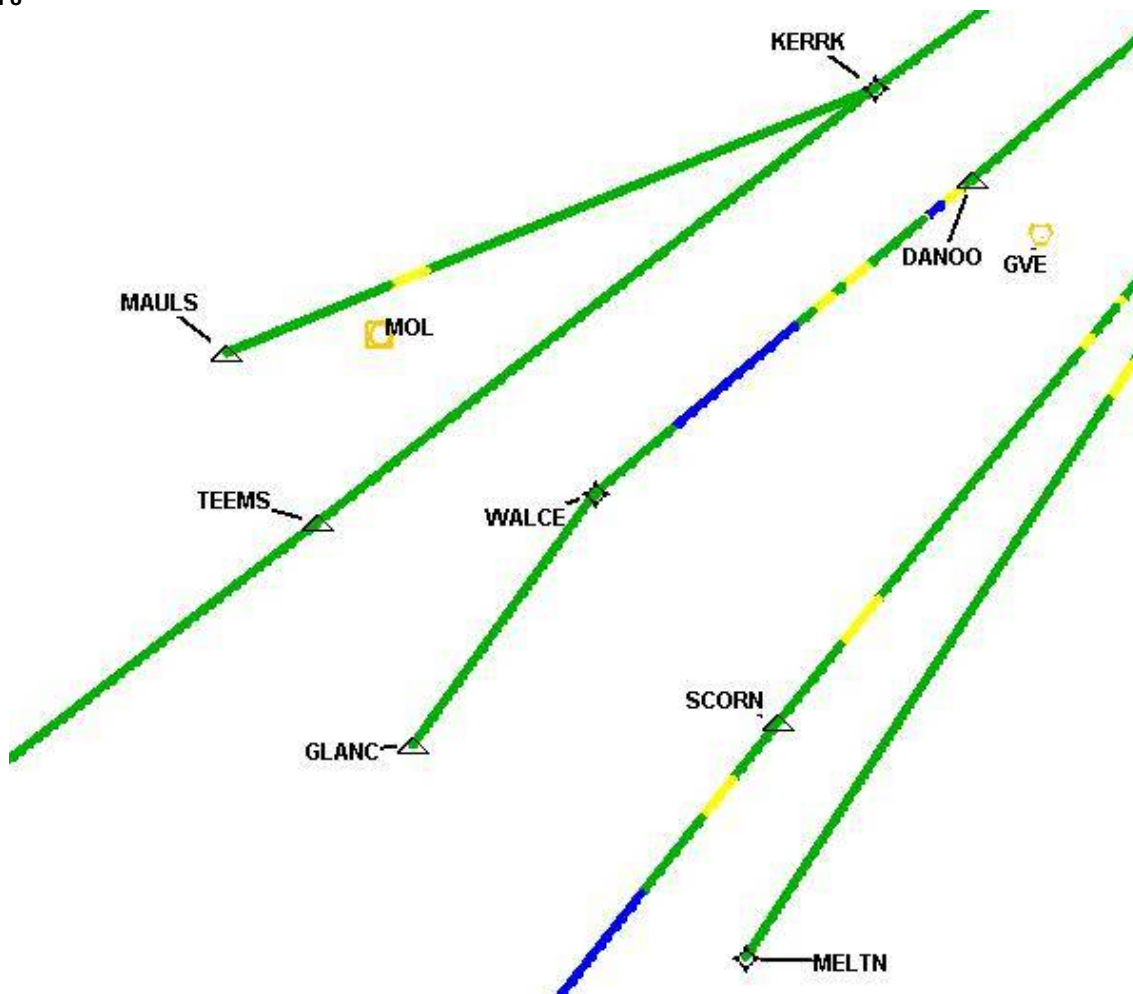
DME DME Assessment Results for FIXET4 path KERRK_MAULS

Graphic Depiction 7



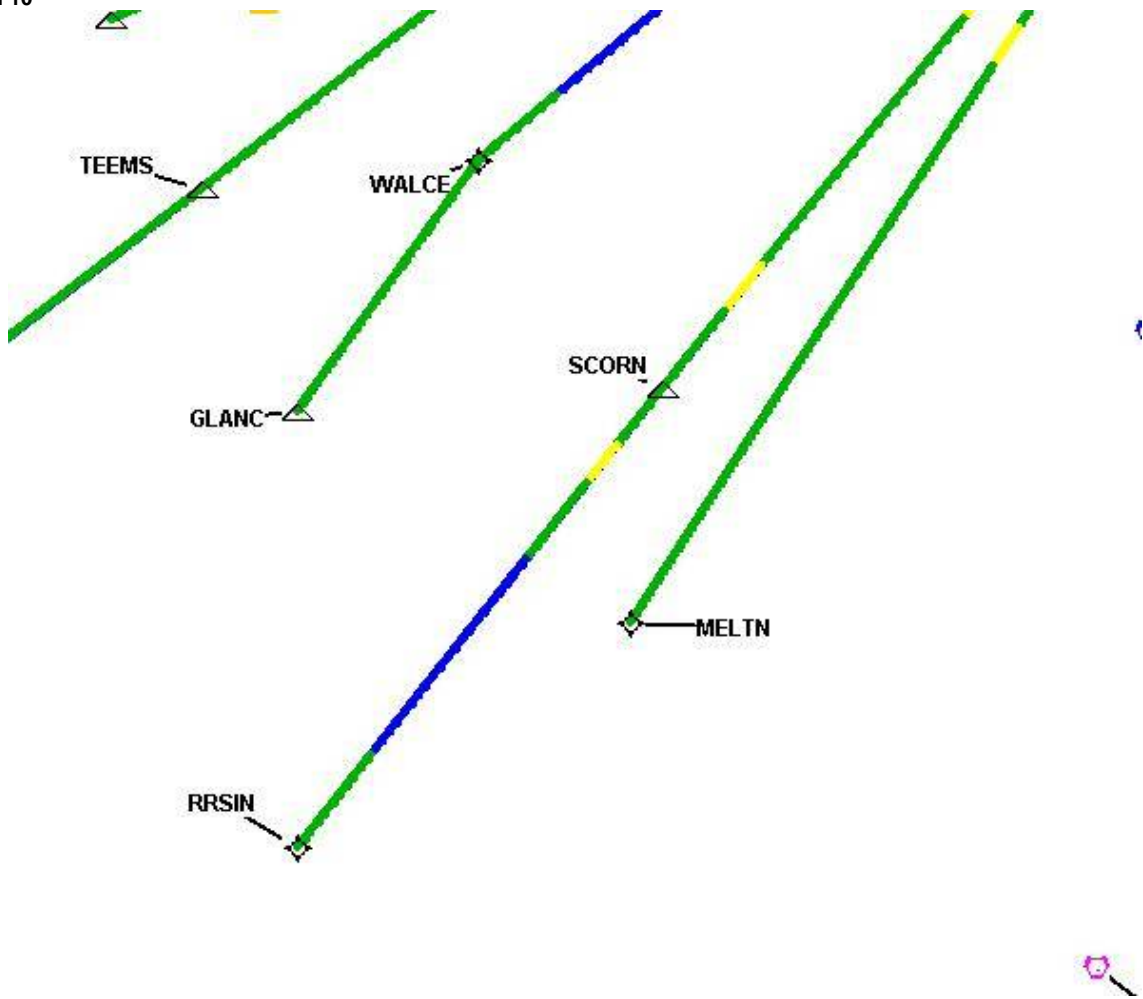
DME DME Assessment Results for FIXET4 path KERRK_MAULS

Graphic Depiction 8



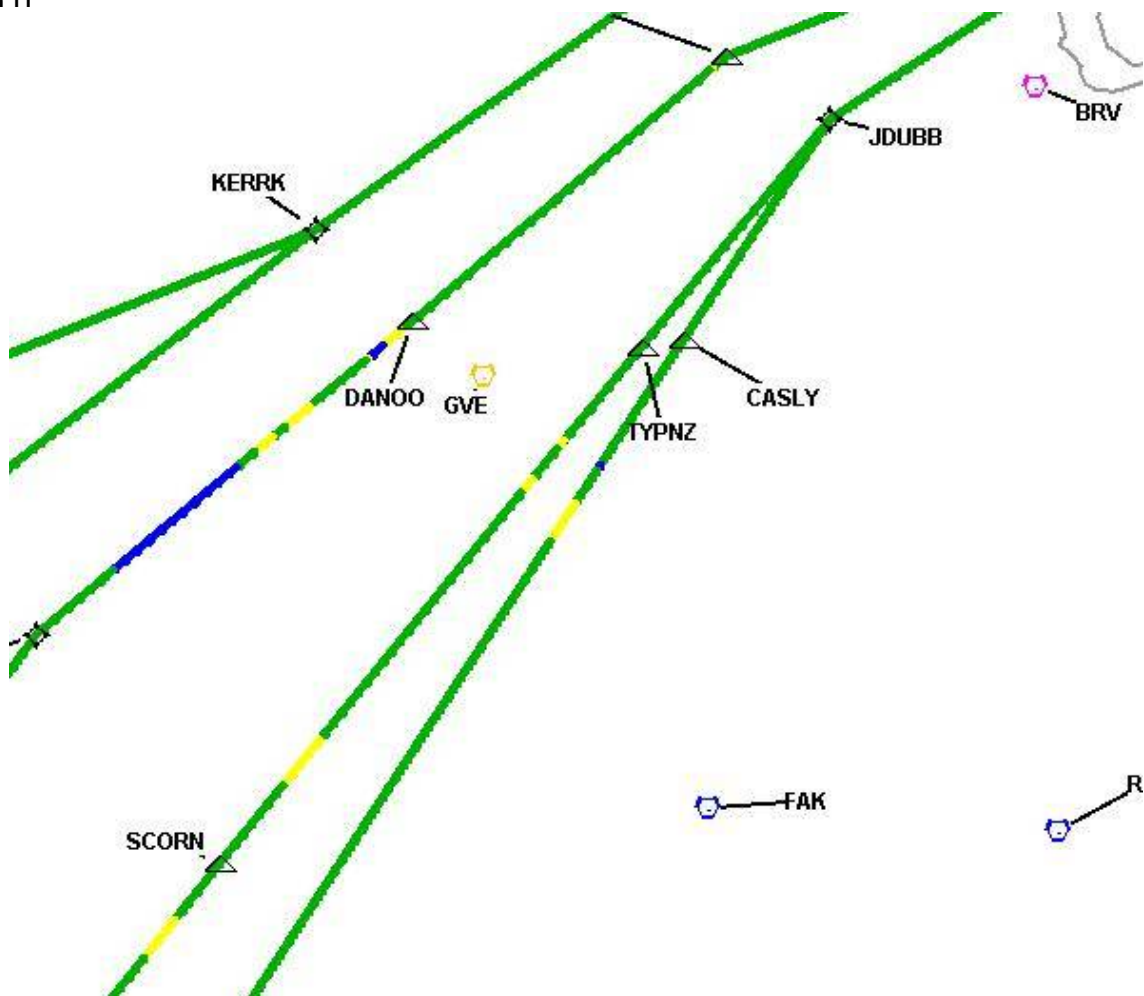
Graphic Depiction 10

DME DME Assessment Results for FIXET4 path KERRK_MAULS



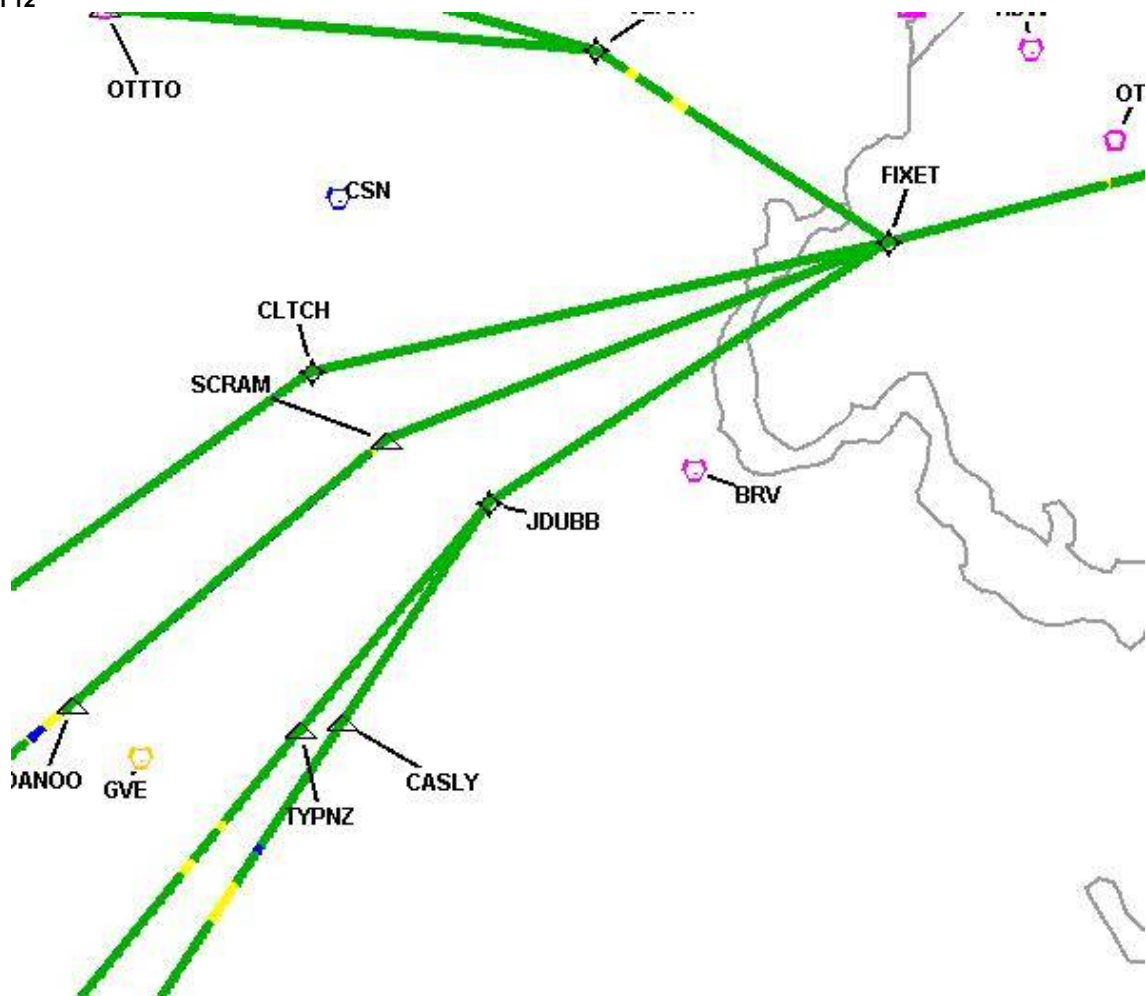
DME DME Assessment Results for FIXET4 path KERRK_MAULS

Graphic Depiction 11



DME DME Assessment Results for FIXET4 path KERRK_MAULS

Graphic Depiction 12



DME DME Assessment Results for FIXET4 path KBWI:RW10:DER_OHSSS

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI FIXET4 (RNAV) SID DME DME_20231212 MITRE 3DEP 3 arcsec LOW ALT.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] FIXET4 20240207_1916 EST\KBWI-RW10-DER_OHSSS\KBWI FIXET4 SID RW10 OHSSS 20240207_1916 EST.pdf
Procedure Name:	FIXET4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 19:16 EST
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KBWI:RW10:DER	WP	N39° 10' 21.4754", W076° 39' 09.6234"	129.8	VNAV	130	FLY_OVER	TF
JWALL	WP	N39° 10' 14.3700", W076° 37' 06.6800"	757.3	VNAV	200	FLY_OVER	TF
BEWEE	WP	N38° 59' 29.1900", W076° 27' 14.2300"	1800	VNAV	200	FLY_BY	TF
OHSSS	WP	N38° 50' 45.5600", W076° 30' 28.4800"	1800	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 643.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KBWI [IFPA]
Climb Gradient:	500.0 ft/NM up to 643.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for FIXET4 path KBWI:RW10:DER_OHSSS

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	FKN

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OTT	N38° 42' 21.1352", W076° 44' 41.0854"	10.0 W	40	L	IFPA	NO	Enabled	22.6 %	23.2 %
2	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled	80.2 %	82.2 %
3	PXT	N38° 17' 16.2825", W076° 24' 00.8315"	10.0 W	40	L	IFPA	NO	Enabled	23.5 %	24.1 %
4	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled	53.5 %	54.8 %
5	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled	43.1 %	44.2 %
6	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled	70.6 %	72.4 %
7	FKN	N36° 42' 51.2443", W077° 00' 44.5488"	9.0 W	40	L	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
3.2	BAL	DCA				
4.3	DCA	EMI	BAL			
6.3	BAL	ADW	DCA	EMI		
14.9	BAL	ADW	DCA			
15.4	BAL	ADW				
17.3	PXT	DCA	BAL	ADW	OTT	
18.3	BAL	ADW				
18.8						
19.1	ADW	PXT				
19.3	ADW	PXT	OTT			
19.8	BAL	ADW	PXT	OTT		

DME DME Assessment Results for FIXET4 path KBWI:RW10:DER_OHSSS

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N39° 10' 21.3183", W076° 39' 06.8869"	N39° 08' 58.5740", W076° 35' 56.8822"	3.1106
2	N38° 55' 39.3163", W076° 28' 39.6082"	N38° 55' 23.3521", W076° 28' 45.5315"	0.2768

Available DMEs by Waypoints

Waypoint Before	Waypoint After	DME List	Suggested DMEs
KBWI:RW10:DER	JWALL		
JWALL	BEWEE	EMI, DCA, ADW, BAL	
BEWEE	OHSSS	DCA, ADW, BAL, PXT, OTT	

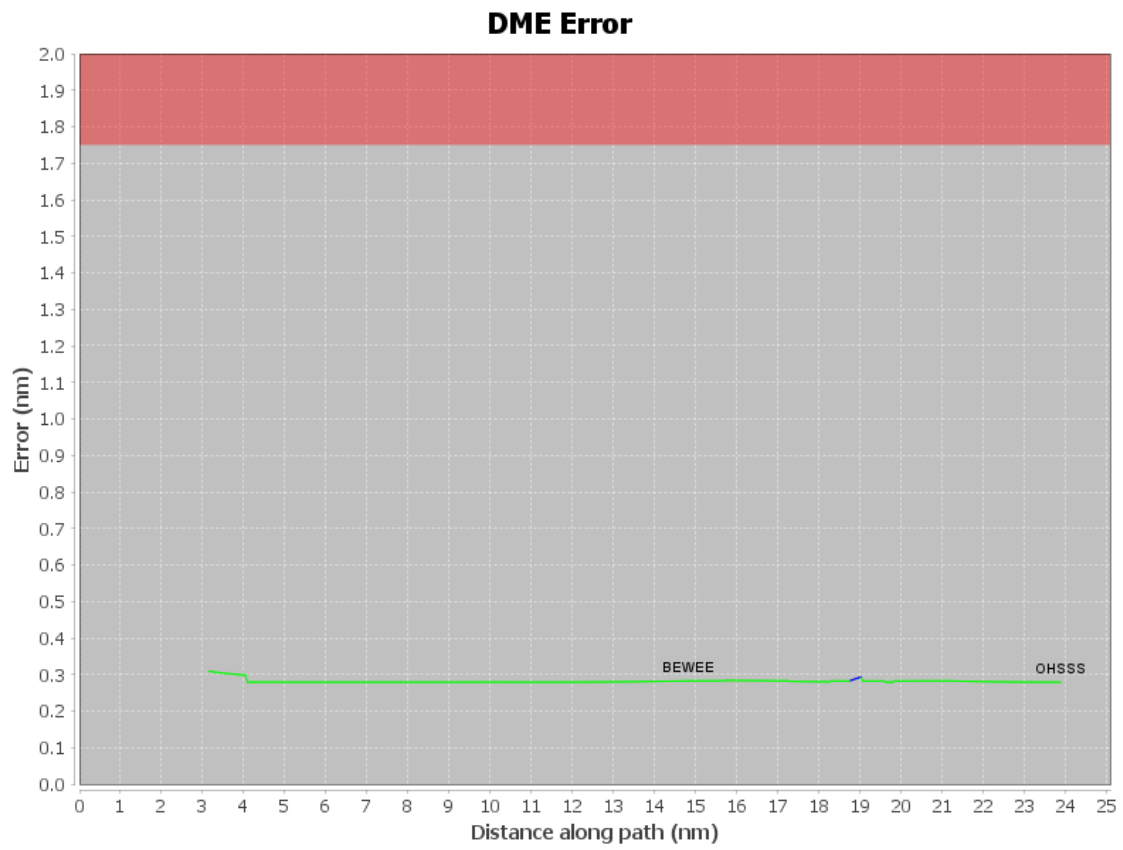
User Data Files

#	File Name
	None

User DMEs

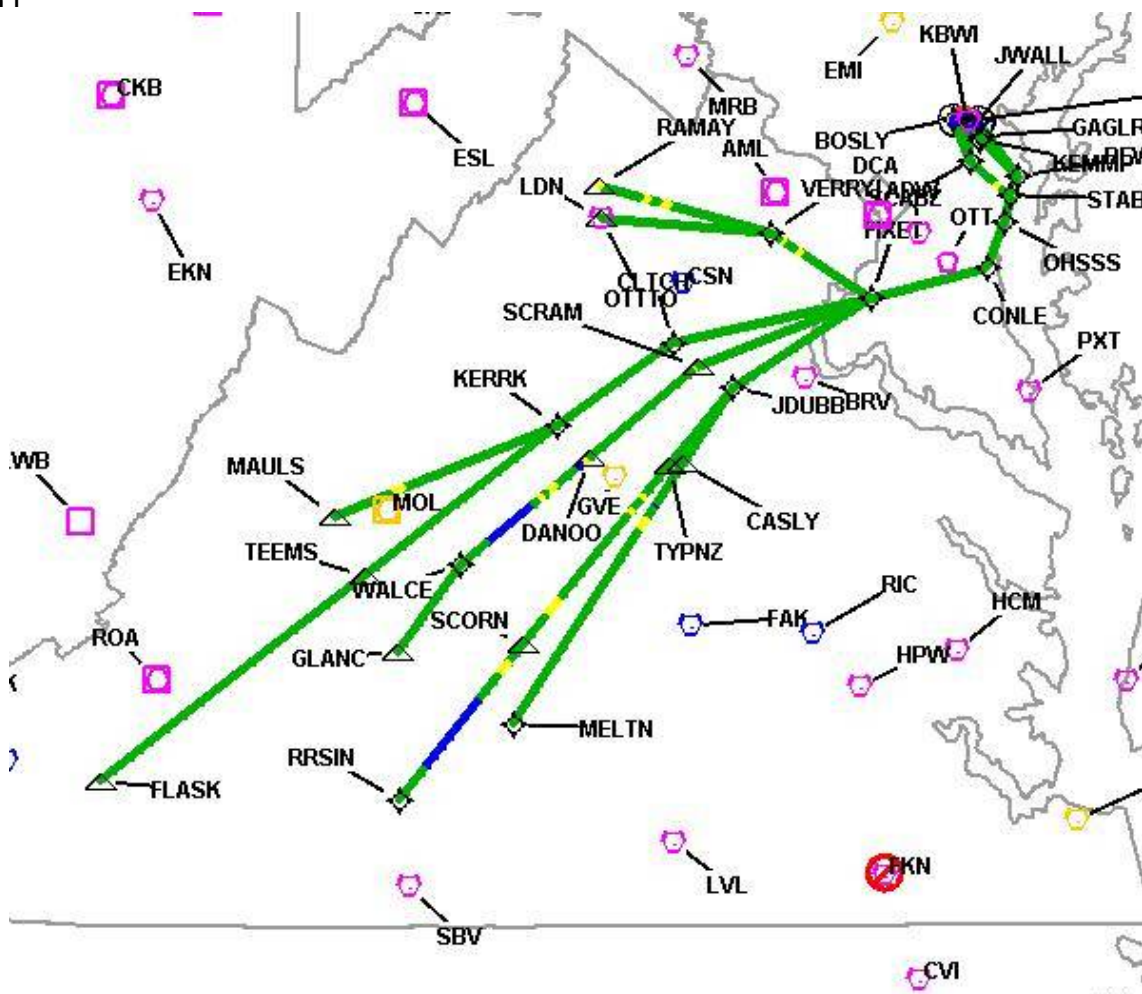
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GVE FAA 698194-12 GVE [IFPA]	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	GVE FAA 698194-12	
	ESV:	Bearing [True]: 173.0° to 218.0° Bearing [Mag]: 179.0° to 224.0°				Arc Distance: Out to 58.0 NM Altitude: 8000.0 to 16000.0 ft		
2	AML FAA 732650-41 AML [IFPA]	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	295.7	113.5	AML FAA 732650-41	
	ESV:	Bearing [True]: 172.0° to 242.0° Bearing [Mag]: 180.0° to 250.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 20000.0 ft		
3	CSN FAA 682017-12 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-12	
	ESV:	Bearing [True]: 183.0° to 215.0° Bearing [Mag]: 189.0° to 221.0°				Arc Distance: Out to 96.0 NM Altitude: 7500.0 to 16000.0 ft		
4	RIC FAA 704161-21 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-21	
	ESV:	Bearing [True]: 285.0° to 9.0° Bearing [Mag]: 294.0° to 18.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 16000.0 ft		
5	FAK FAA 698146-14 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-14	
	ESV:	Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
6	HPW FAA 698117-16 HPW [IFPA]	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	70	114.35	HPW FAA 698117-16	
	ESV:	Bearing [True]: 259.0° to 284.0° Bearing [Mag]: 265.0° to 290.0°				Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 18000.0 ft		

DME DME Assessment Results for FIXET4 path KBWI:RW10:DER_OHSSS



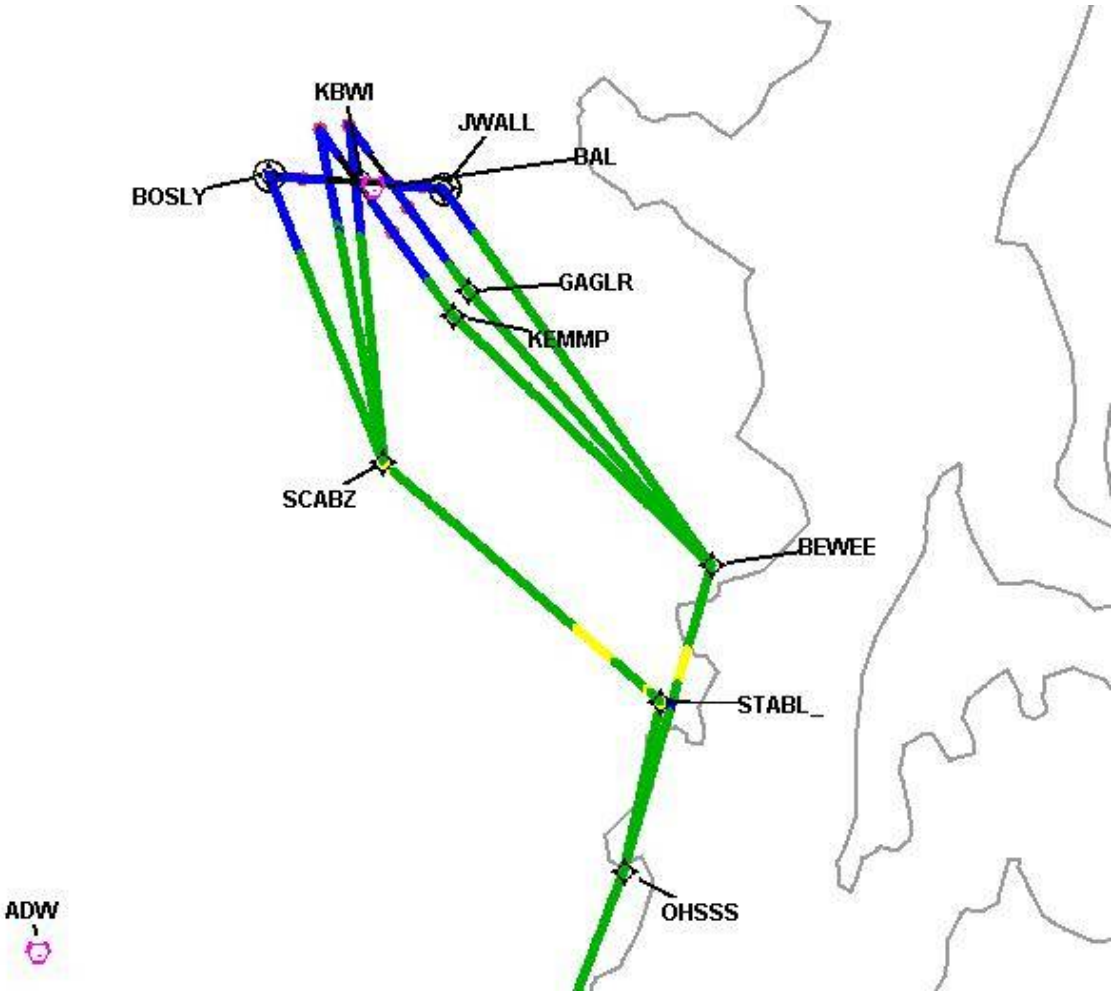
DME DME Assessment Results for FIXET4 path KBWI:RW10:DER_OHSSS

Graphic Depiction 1



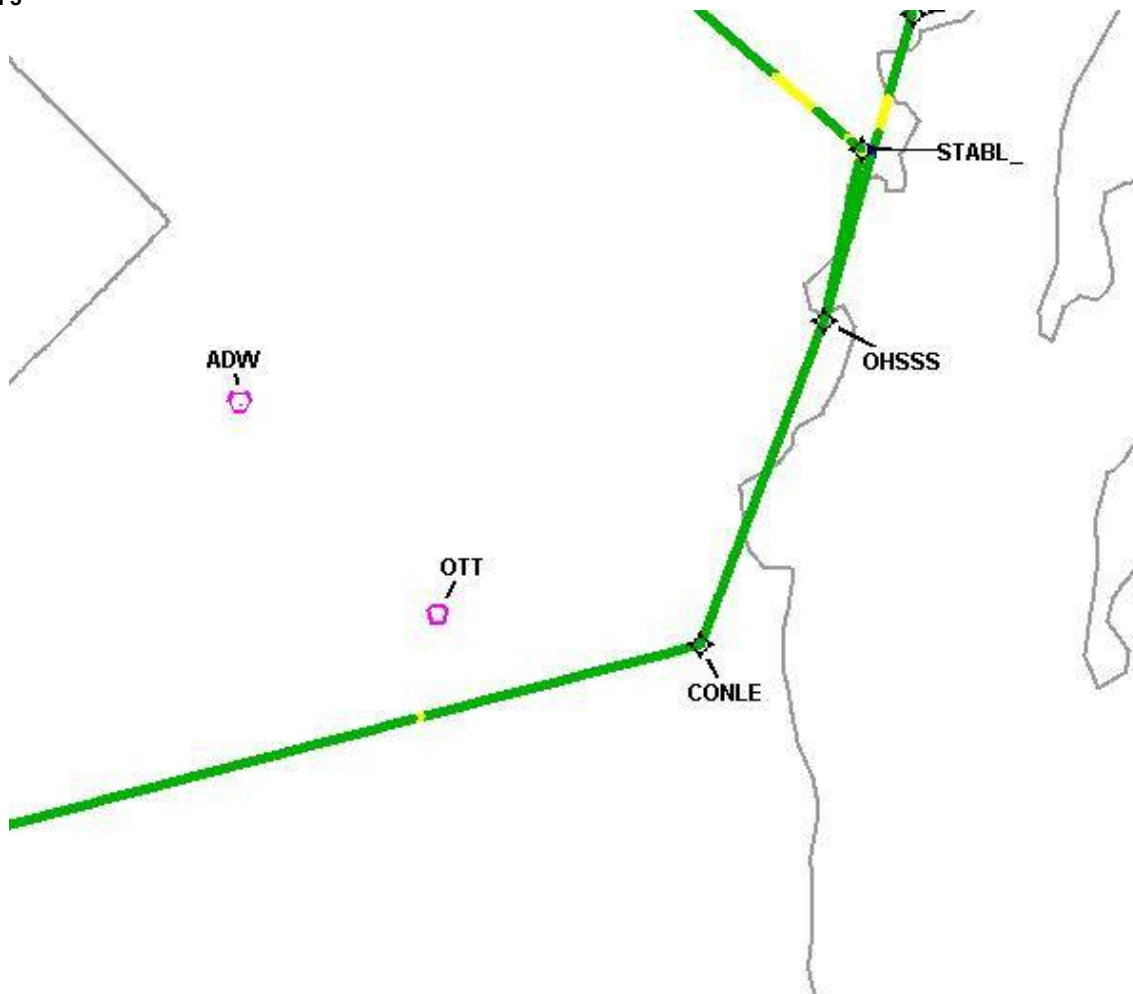
DME DME Assessment Results for FIXET4 path KBWI:RW10:DER_OHSSS

Graphic Depiction 2



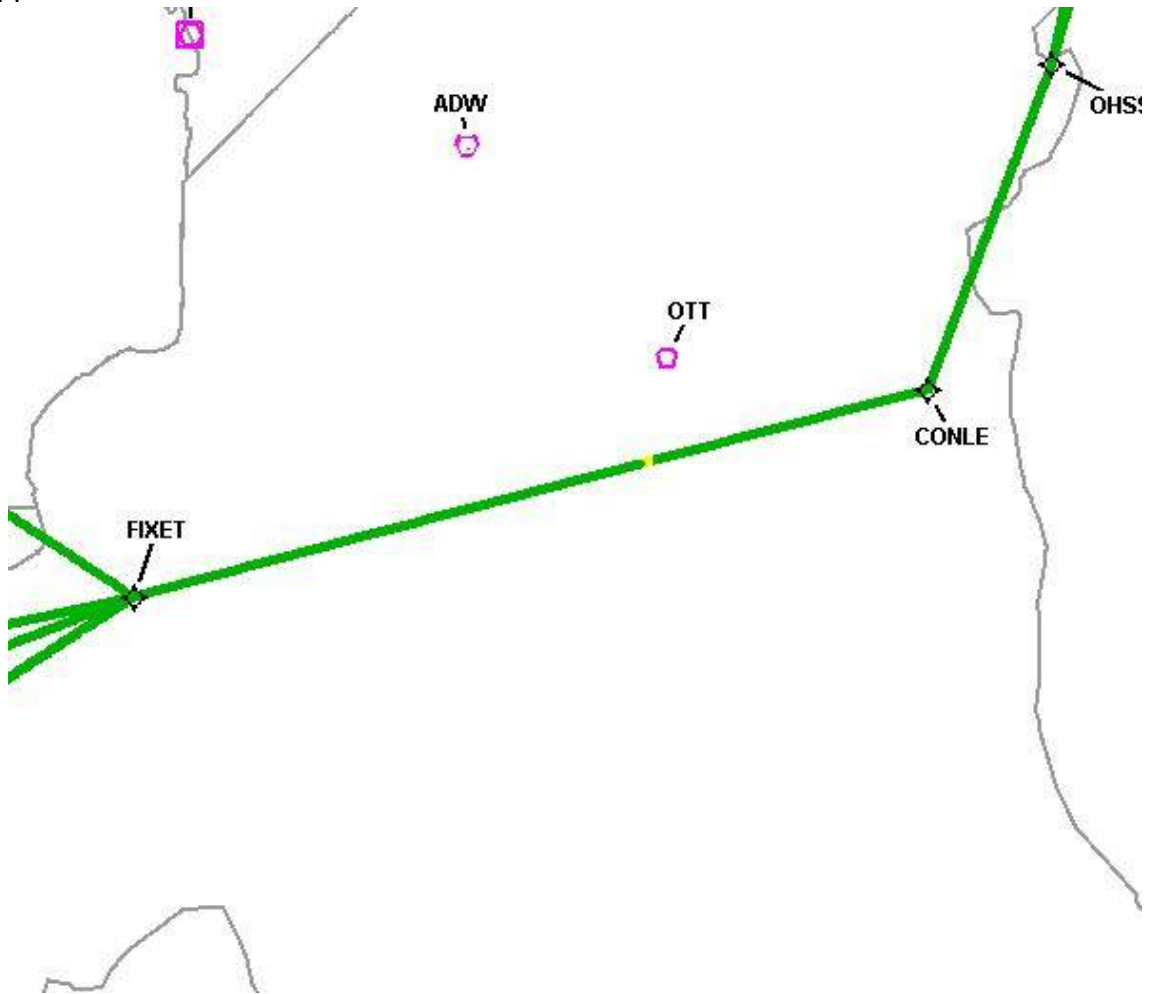
DME DME Assessment Results for FIXET4 path KBWI:RW10:DER_OHSSS

Graphic Depiction 3



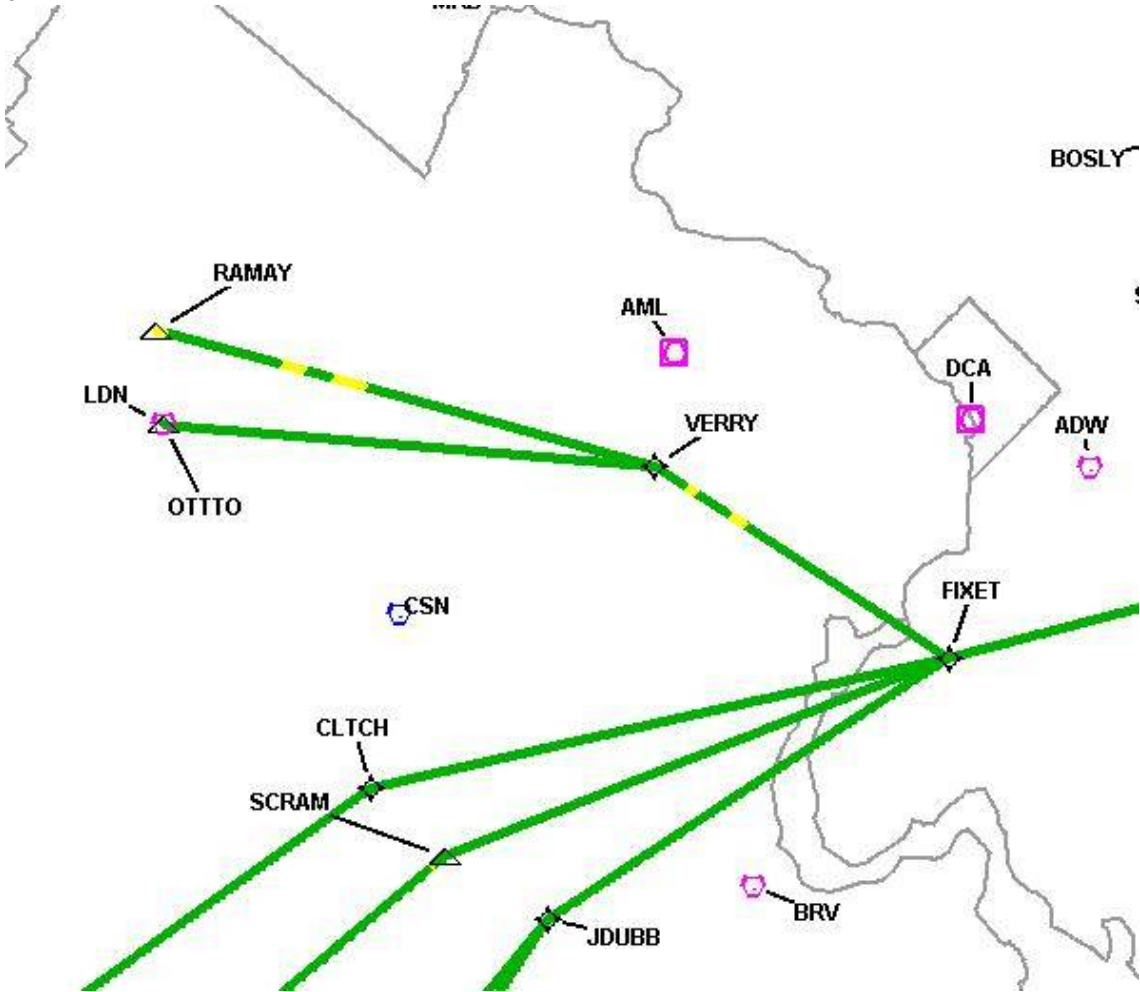
DME DME Assessment Results for FIXET4 path KBWI:RW10:DER_OHSSS

Graphic Depiction 4

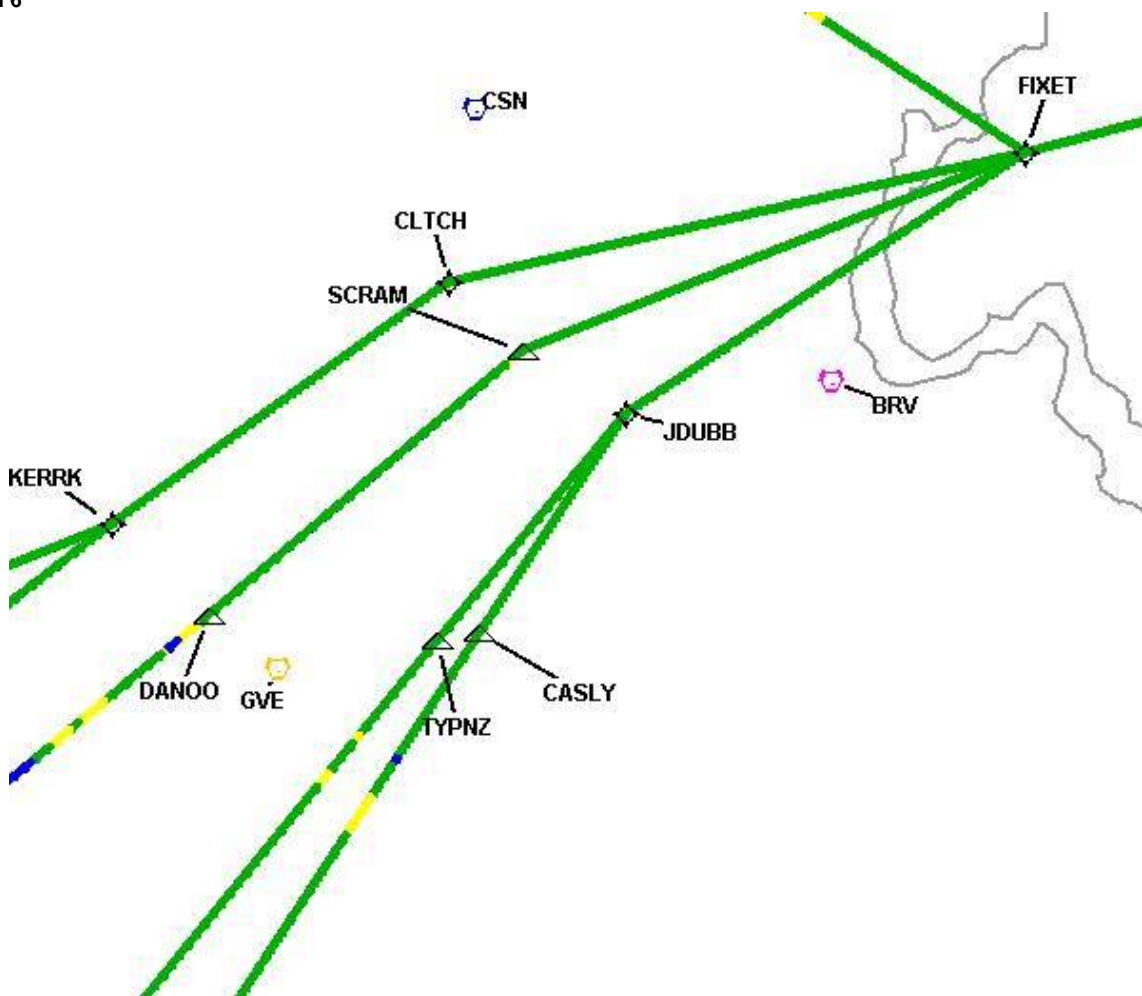


DME DME Assessment Results for FIXET4 path KBWI:RW10:DER_OHSSS

Graphic Depiction 5

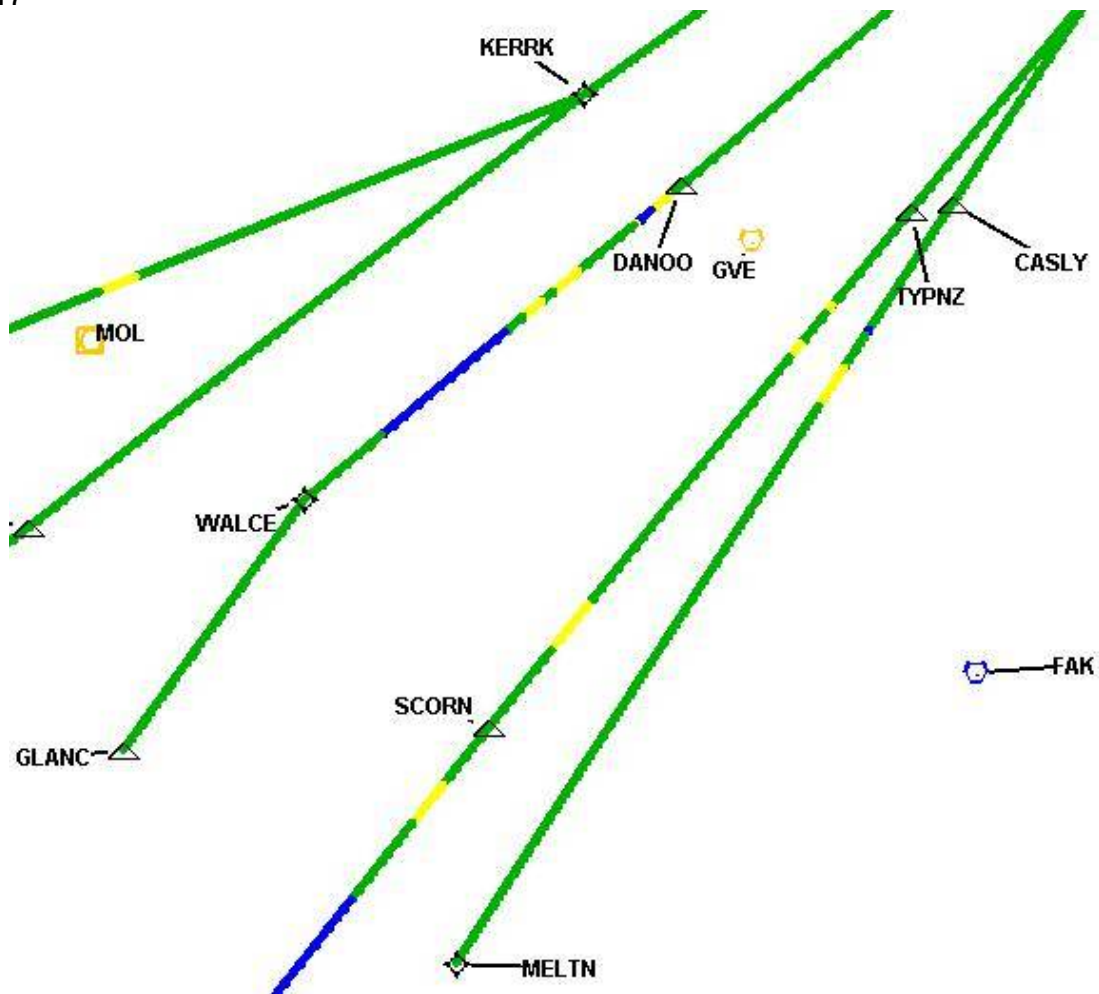


Graphic Depiction 6

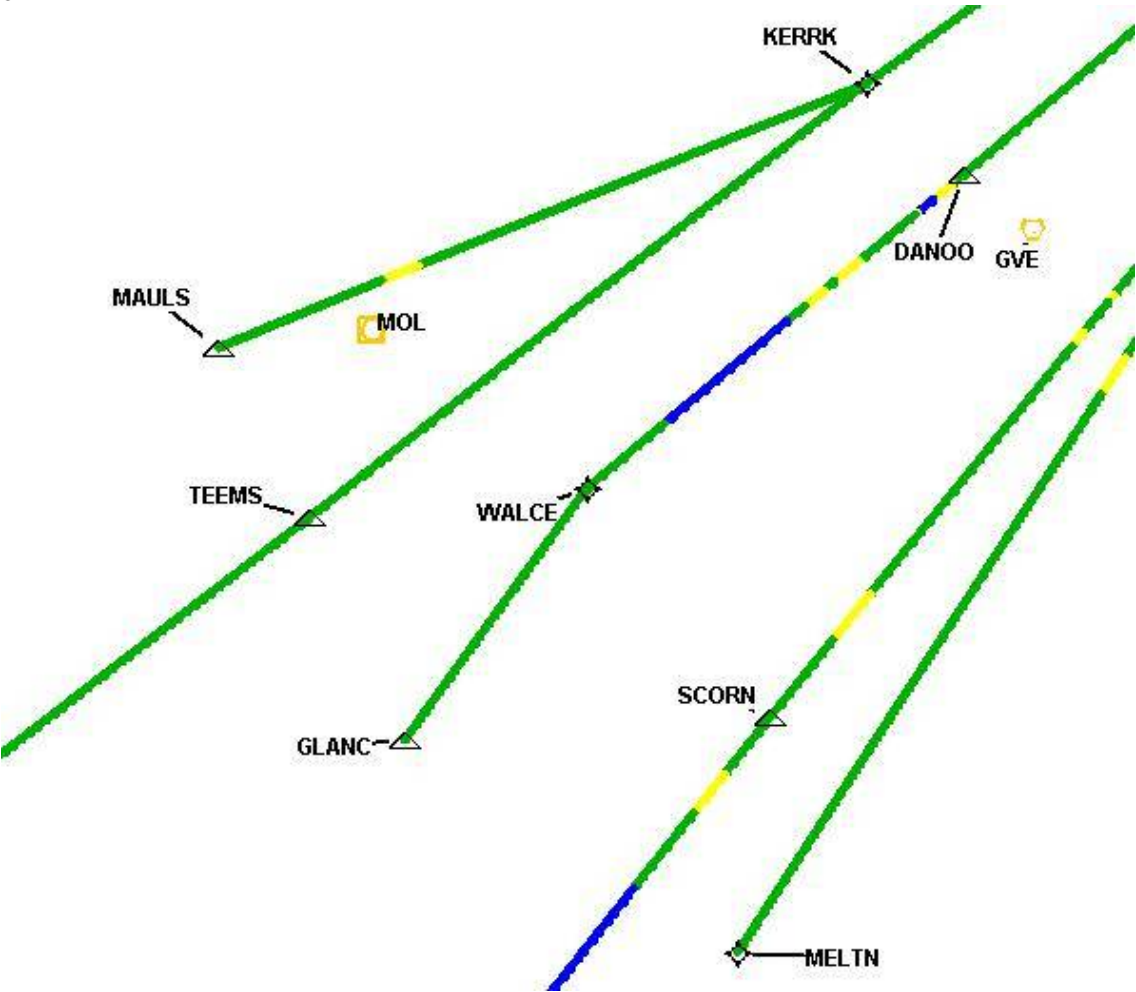


DME DME Assessment Results for FIXET4 path KBWI:RW10:DER_OHSSS

Graphic Depiction 7

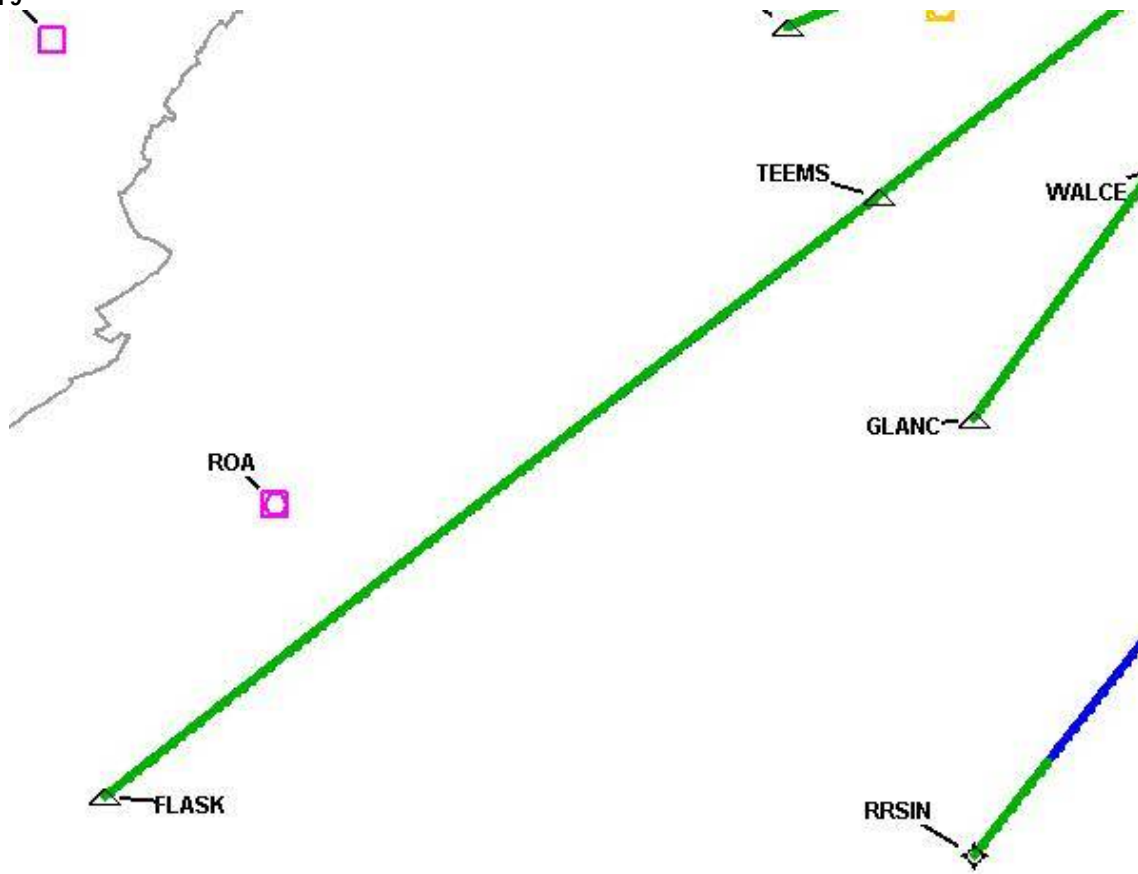


Graphic Depiction 8



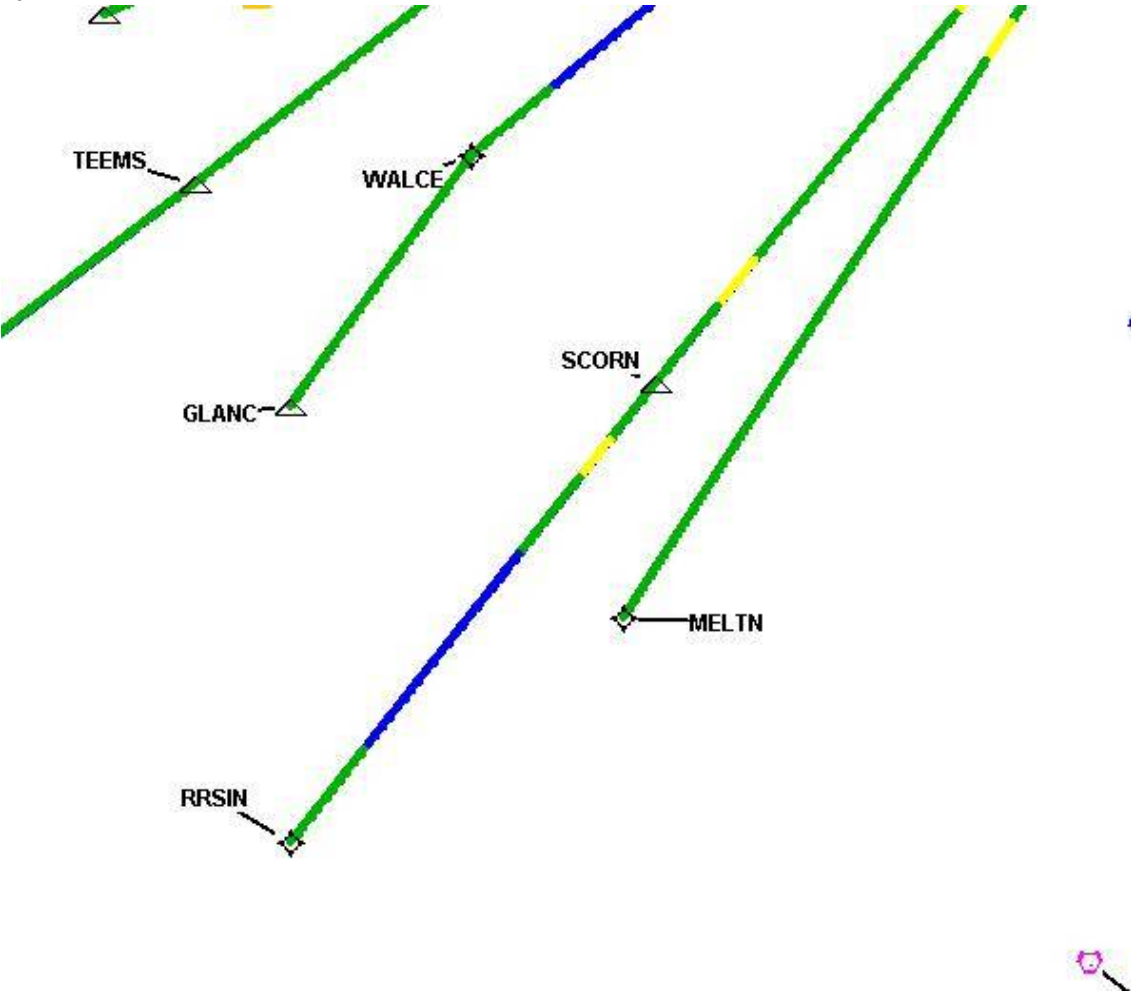
DME DME Assessment Results for FIXET4 path KBWI:RW10:DER_OHSSS

Graphic Depiction 9

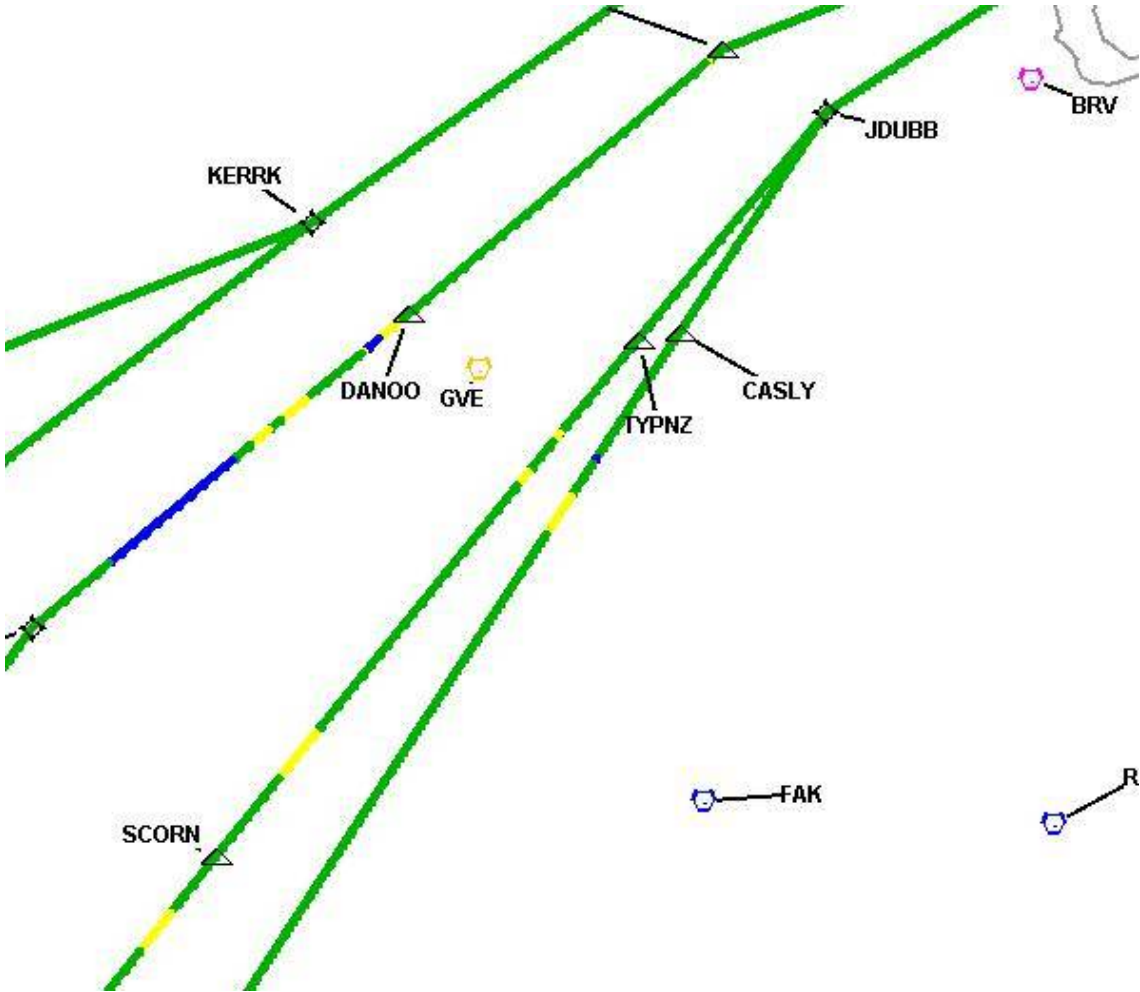


DME DME Assessment Results for FIXET4 path KBWI:RW10:DER_OHSSS

Graphic Depiction 10

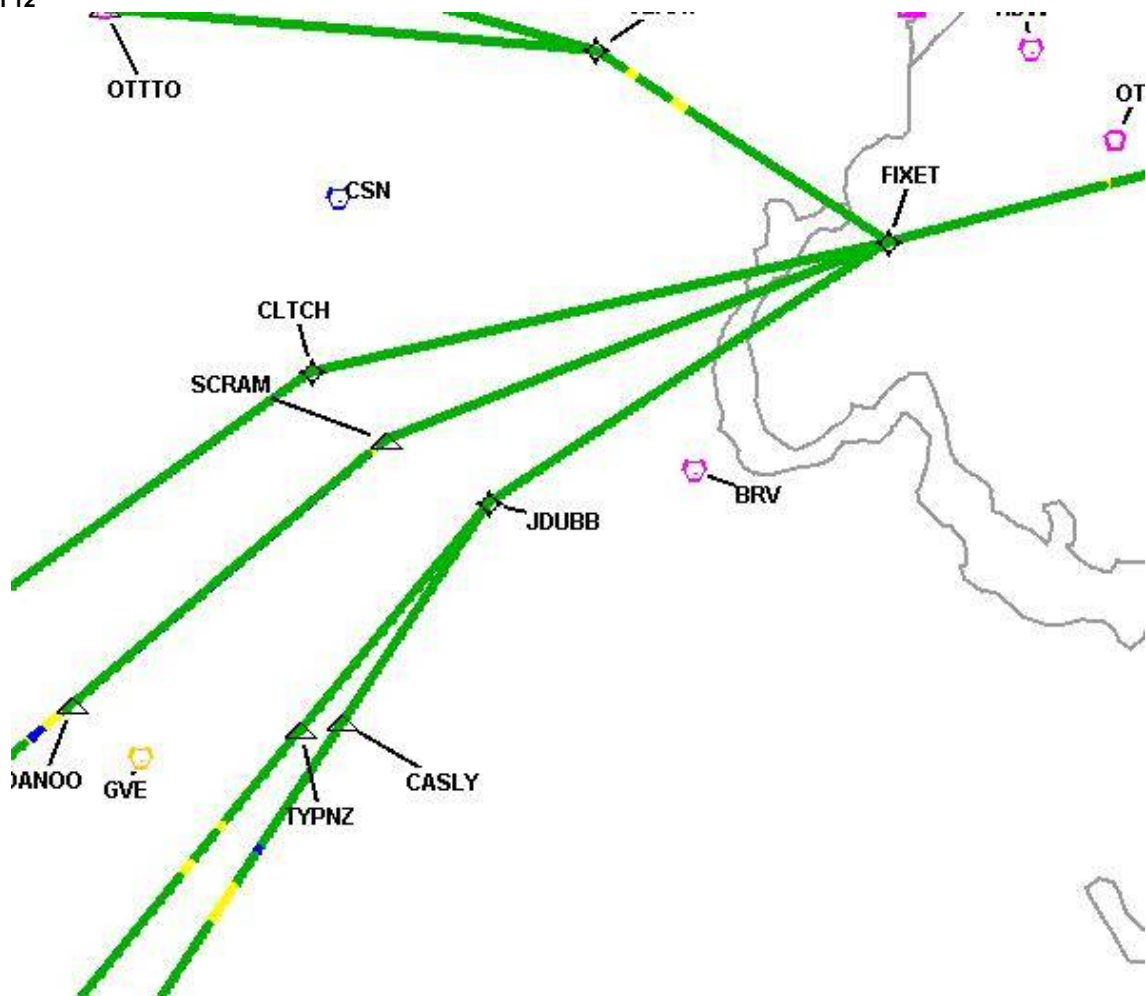


Graphic Depiction 11



DME DME Assessment Results for FIXET4 path KBWI:RW10:DER_OHSSS

Graphic Depiction 12



DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI FIXET4 (RNAV) SID DME DME_20231212 MITRE 3DEP 3 arcsec LOW ALT.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] FIXET4 20240207_1916 EST\KBWI-RW15L-DER_BEWEE\KBWI FIXET4 SID RW15L BEWEE 20240207_1916 EST.pdf
Procedure Name:	FIXET4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 19:16 EST
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KBWI:RW15L:DER	WP	N39° 10' 34.4468", W076° 39' 11.6307"	114	VNAV	130	FLY_OVER	TF
GAGLR	WP	N39° 07' 19.4900", W076° 36' 11.3800"	1231.4	VNAV	200	FLY_BY	TF
BEWEE	WP	N38° 59' 29.1900", W076° 27' 14.2300"	1800	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 643.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KBWI [IFPA]
Climb Gradient:	500.0 ft/NM up to 643.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	FKN

DME/DME (Continued)											
DMEs Used											
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance	
1	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled	74 %	79 %	
2	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled	74 %	79 %	
3	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled	65.4 %	70.1 %	
4	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled	55.9 %	59.9 %	
5	FKN	N36° 42' 51.2443", W077° 00' 44.5488"	9.0 W	40	L	IFPA	NO	Disabled			

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
3.0	BAL	DCA				
4.3	DCA	EMI	BAL			
5.8	DCA	EMI	BAL	ADW		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N39° 10' 32.7202", W076° 39' 10.0329"	N39° 08' 06.5595", W076° 36' 54.8677"	2.9986

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KBWI:RW15L:DER	GAGLR	DCA, BAL	
GAGLR	BEWEE	EMI, DCA, ADW, BAL	

DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

User Data Files

File Name

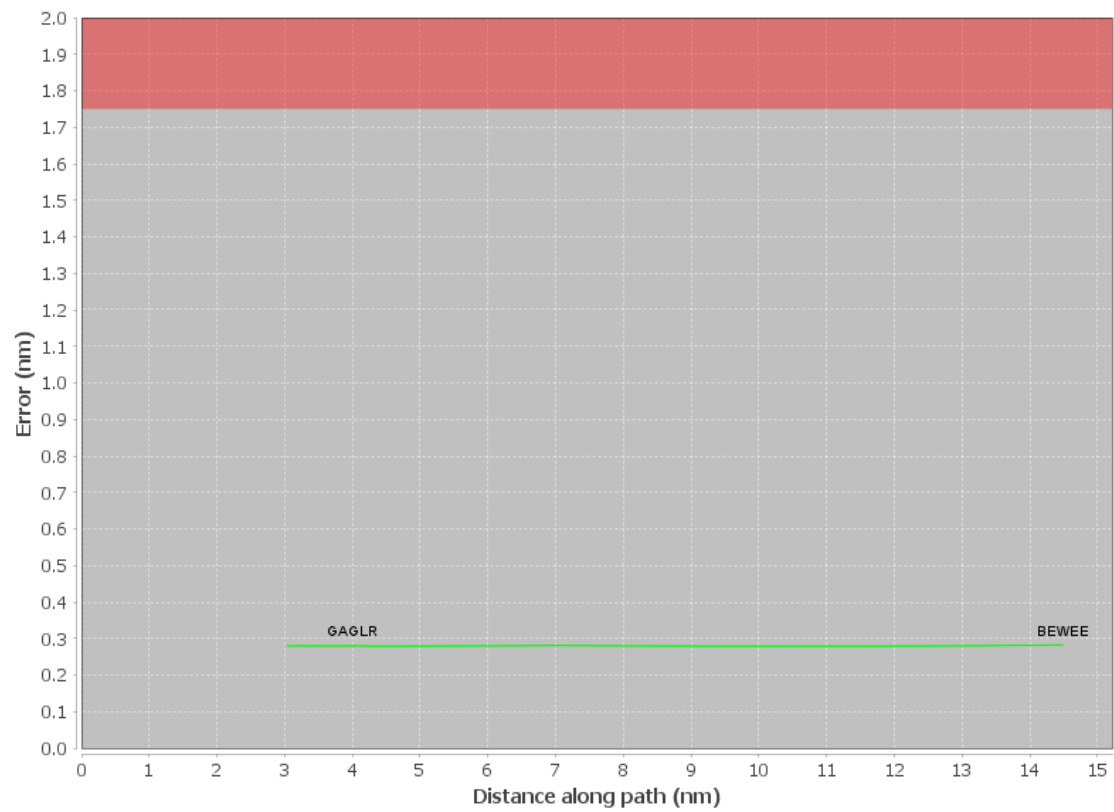
None

User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GVE FAA 698194-12 GVE [IFPA]	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	GVE FAA 698194-12	
ESV:		Bearing [True]: 173.0° to 218.0° Bearing [Mag]: 179.0° to 224.0°				Arc Distance: Out to 58.0 NM Altitude: 8000.0 to 16000.0 ft		
2	AML FAA 732650-41 AML [IFPA]	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	295.7	113.5	AML FAA 732650-41	
ESV:		Bearing [True]: 172.0° to 242.0° Bearing [Mag]: 180.0° to 250.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 20000.0 ft		
3	CSN FAA 682017-12 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-12	
ESV:		Bearing [True]: 183.0° to 215.0° Bearing [Mag]: 189.0° to 221.0°				Arc Distance: Out to 96.0 NM Altitude: 7500.0 to 16000.0 ft		
4	RIC FAA 704161-21 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-21	
ESV:		Bearing [True]: 285.0° to 9.0° Bearing [Mag]: 294.0° to 18.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 16000.0 ft		
5	FAK FAA 698146-14 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-14	
ESV:		Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
6	HPW FAA 698117-16 HPW [IFPA]	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	70	114.35	HPW FAA 698117-16	
ESV:		Bearing [True]: 259.0° to 284.0° Bearing [Mag]: 265.0° to 290.0°				Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 18000.0 ft		

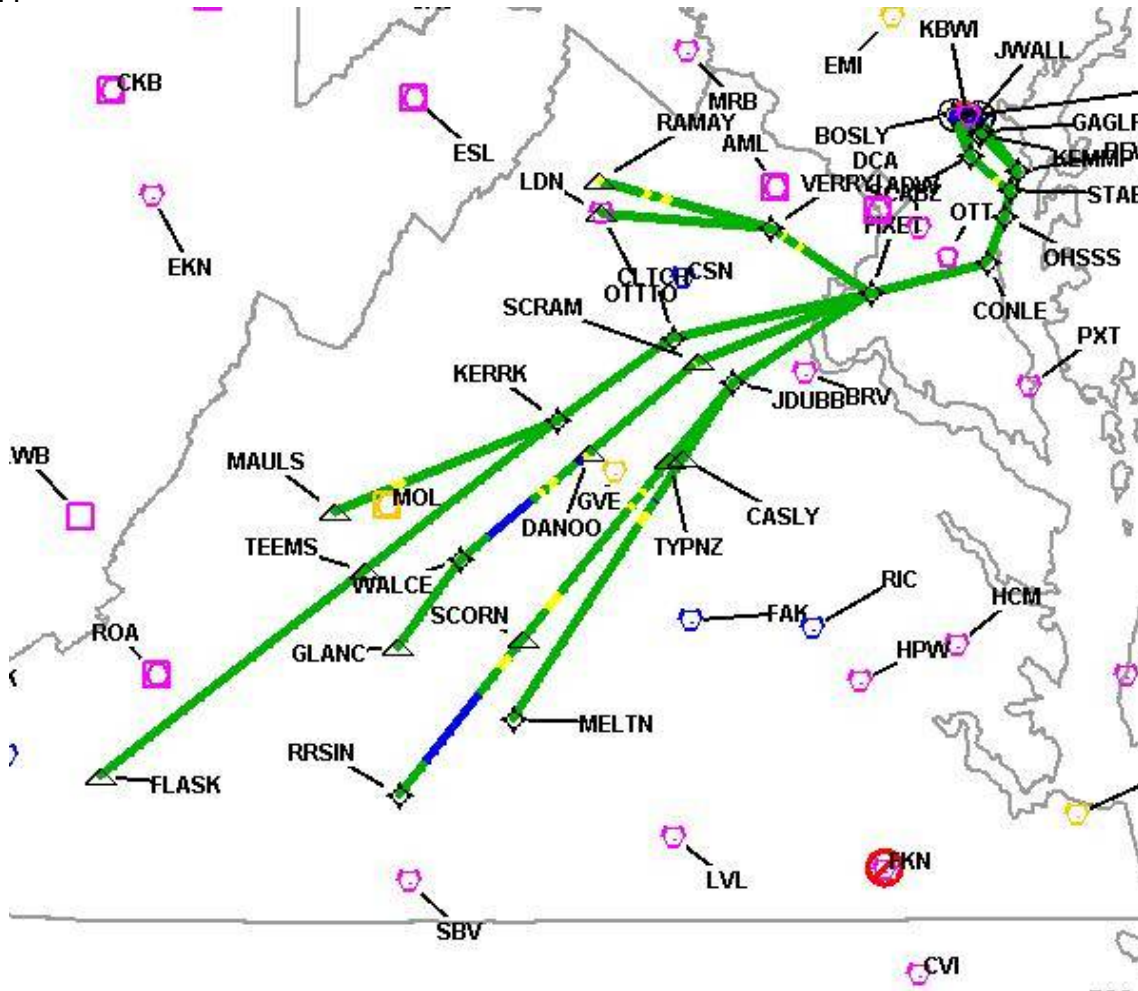
DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

DME Error



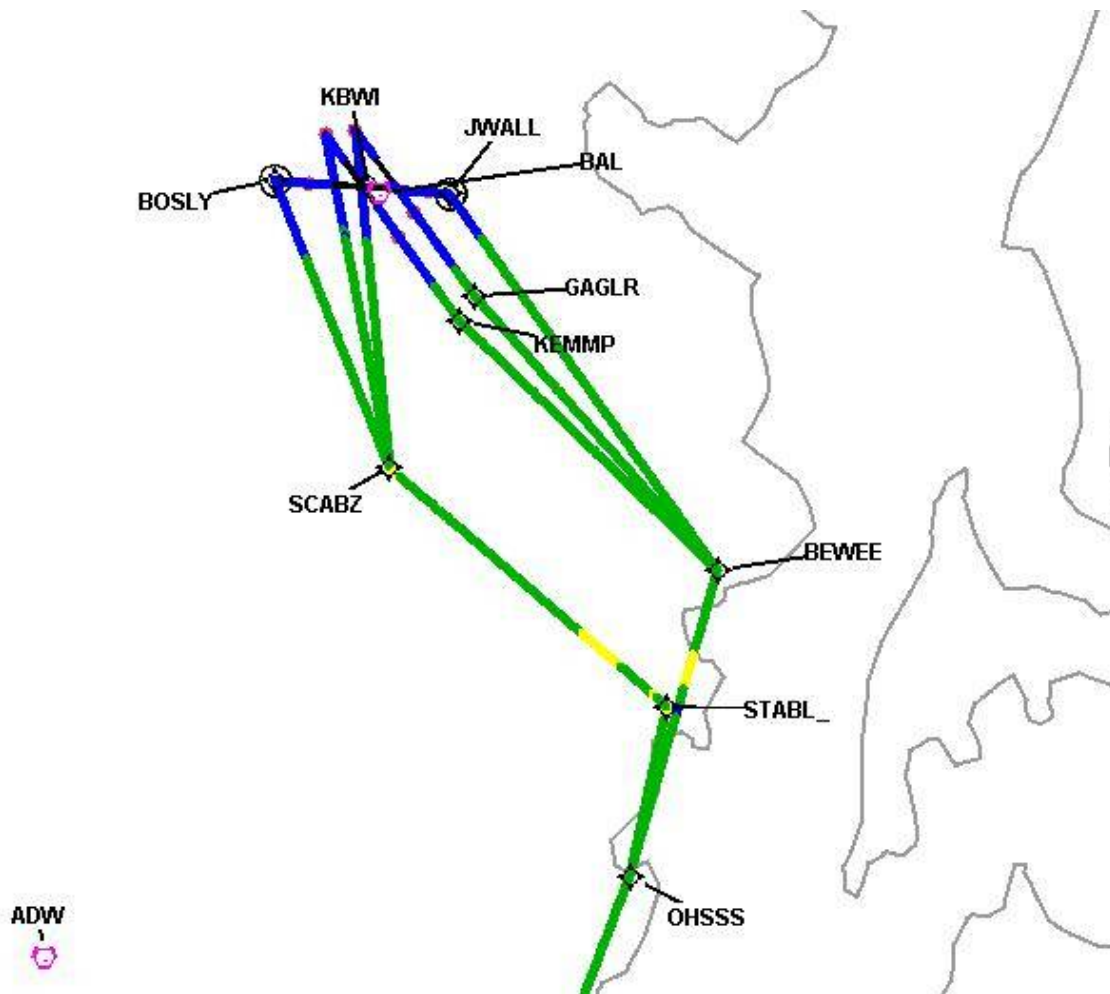
DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

Graphic Depiction 1



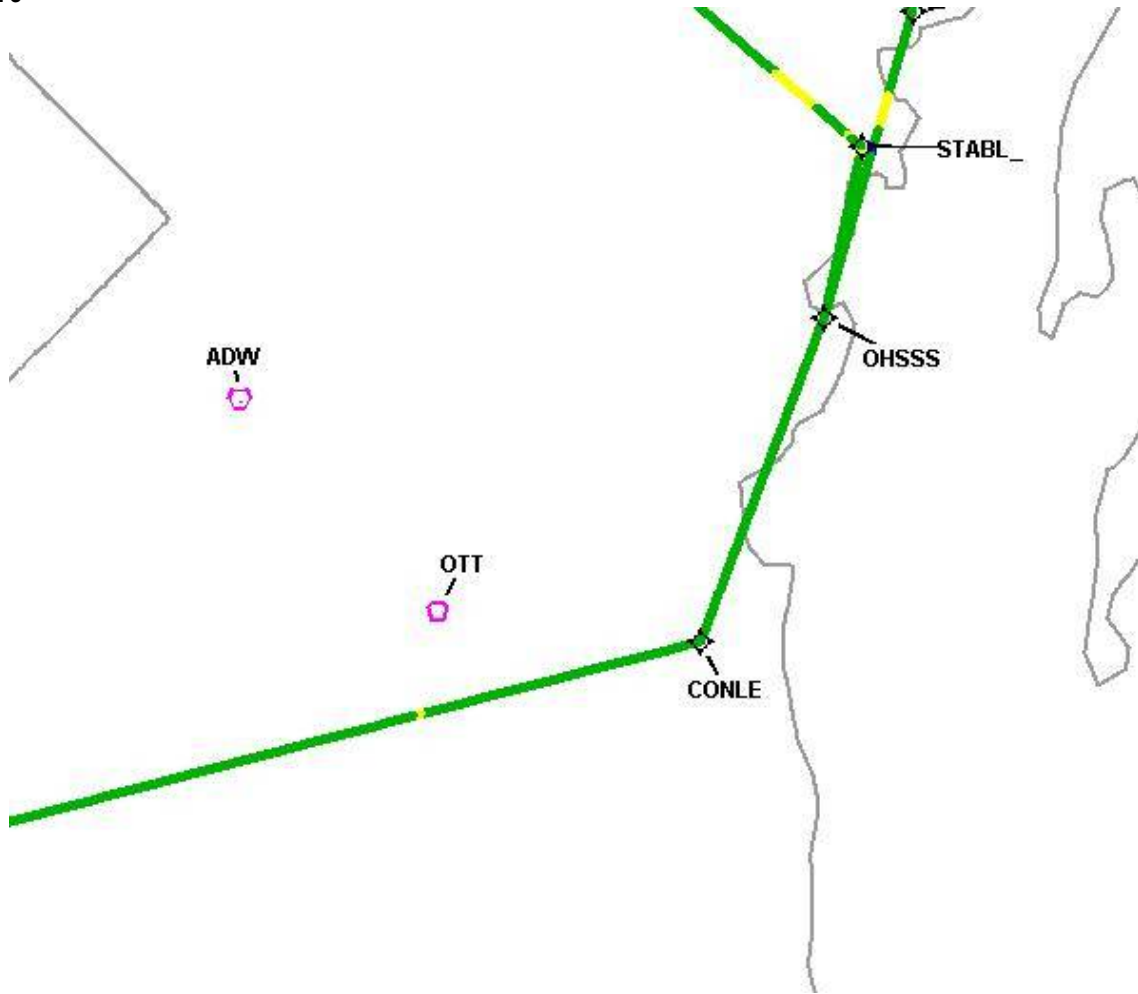
DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

Graphic Depiction 2



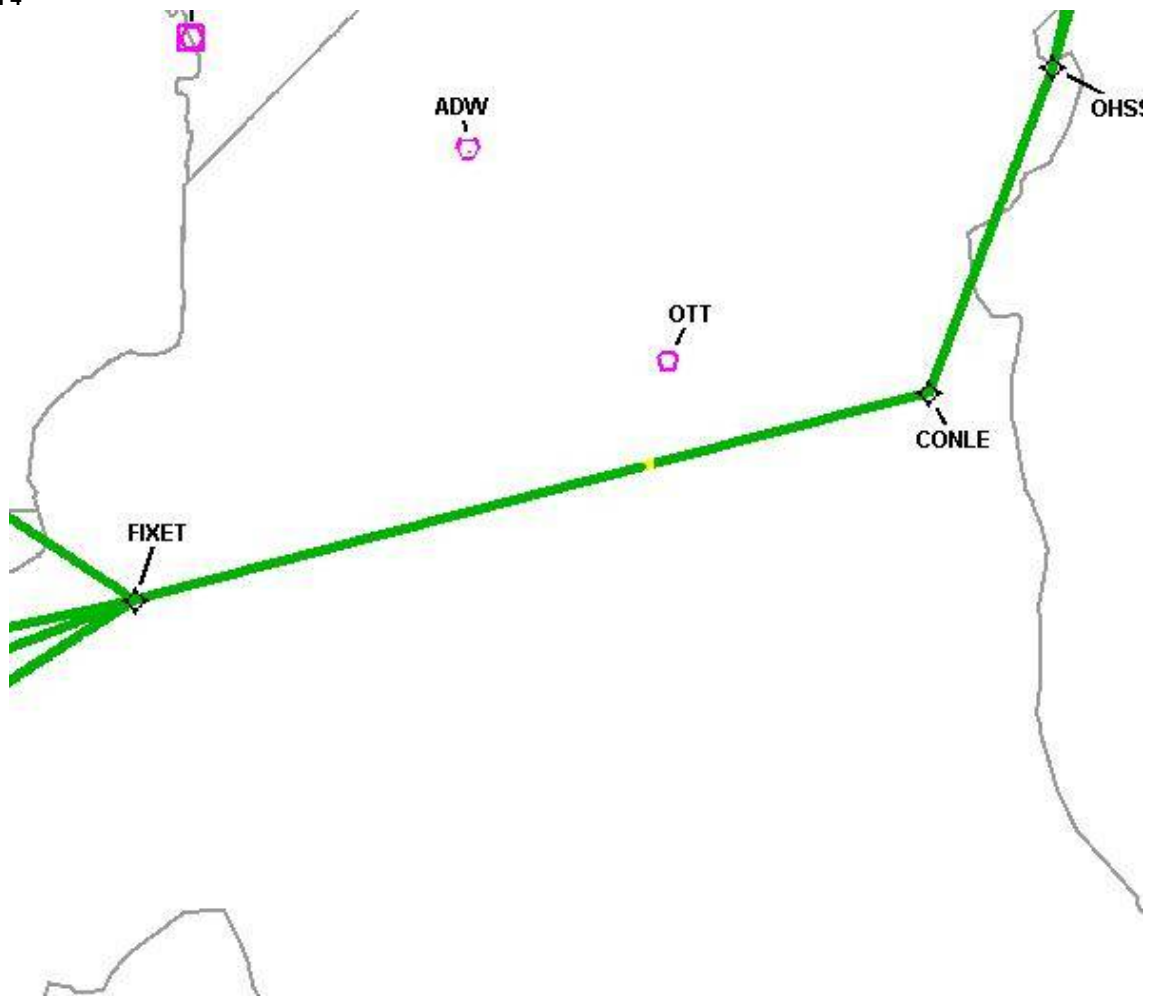
DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

Graphic Depiction 3



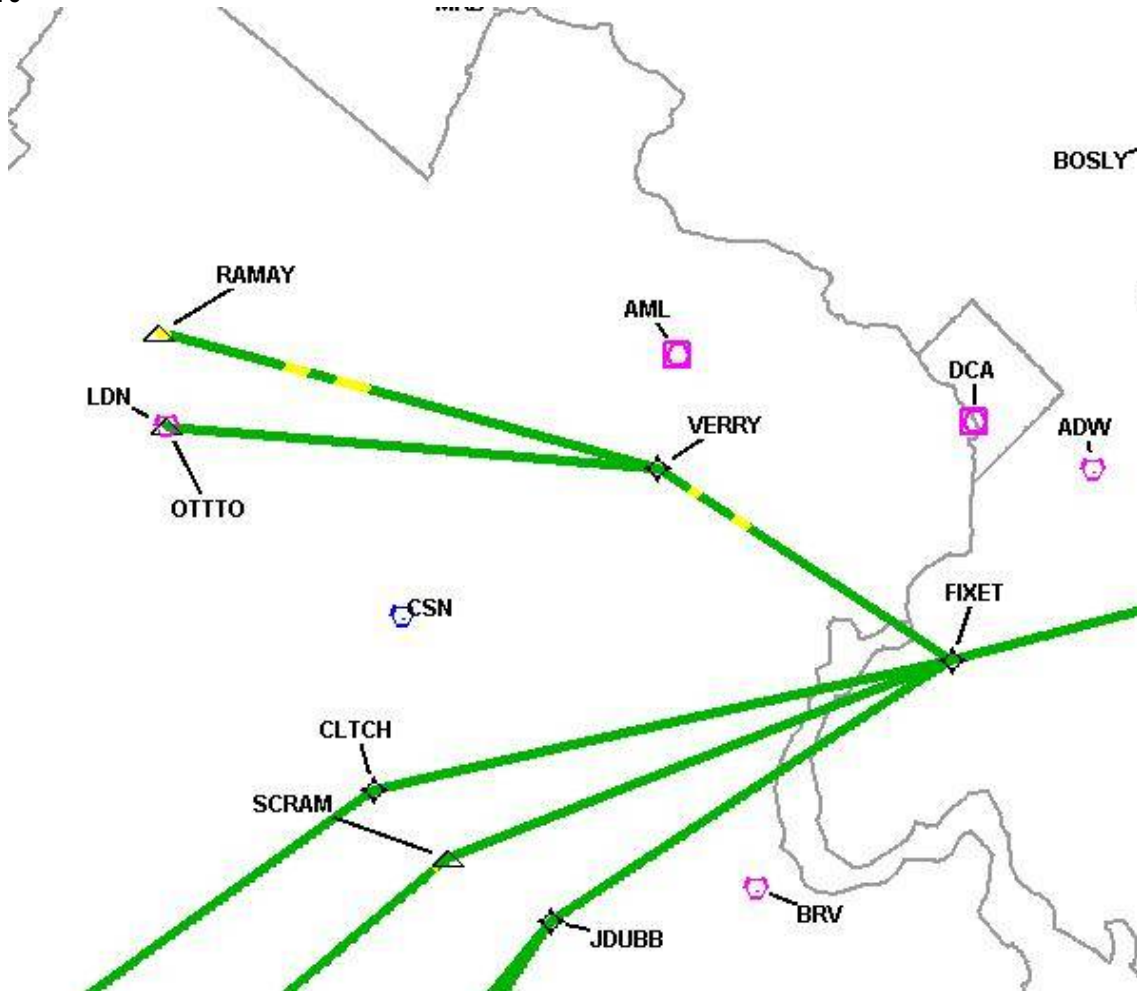
DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

Graphic Depiction 4



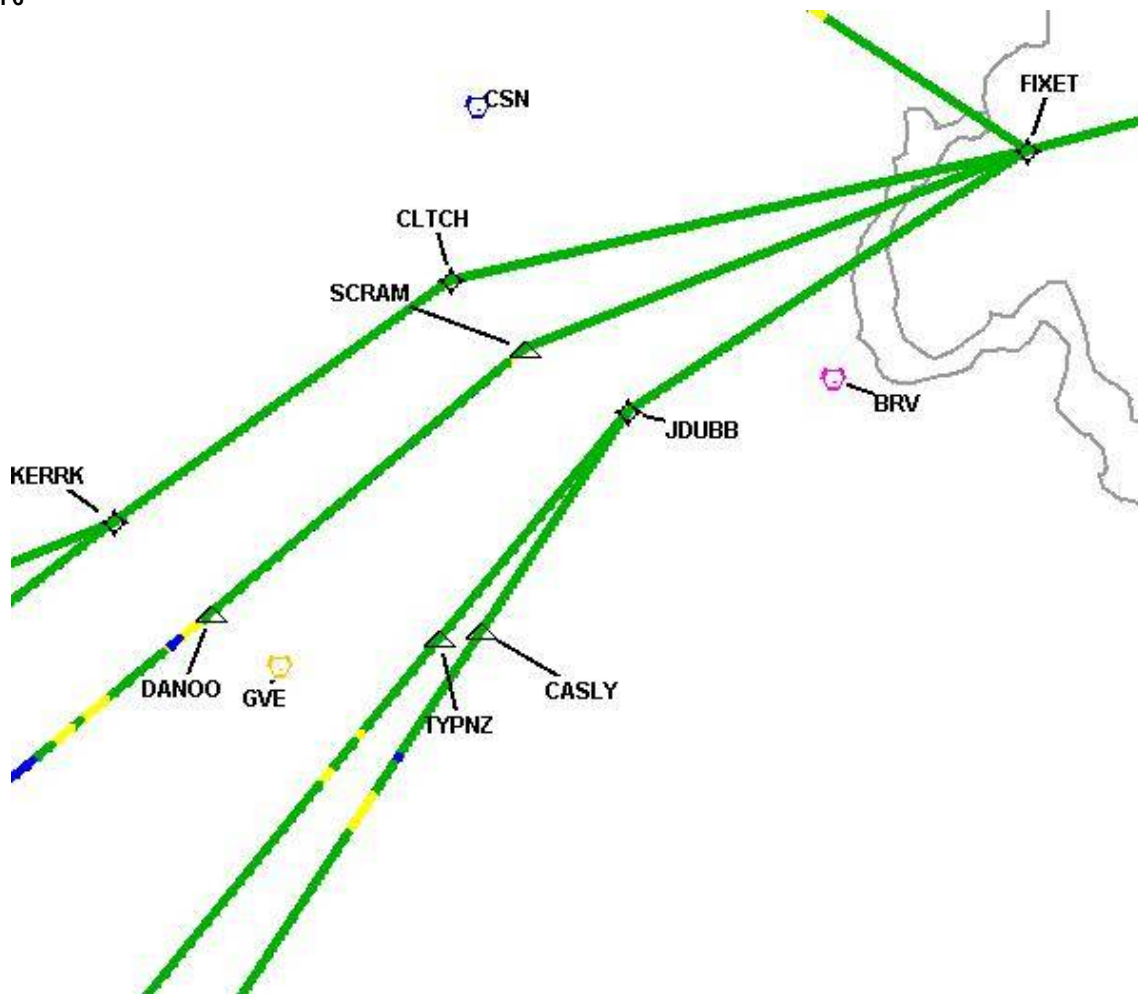
DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

Graphic Depiction 5



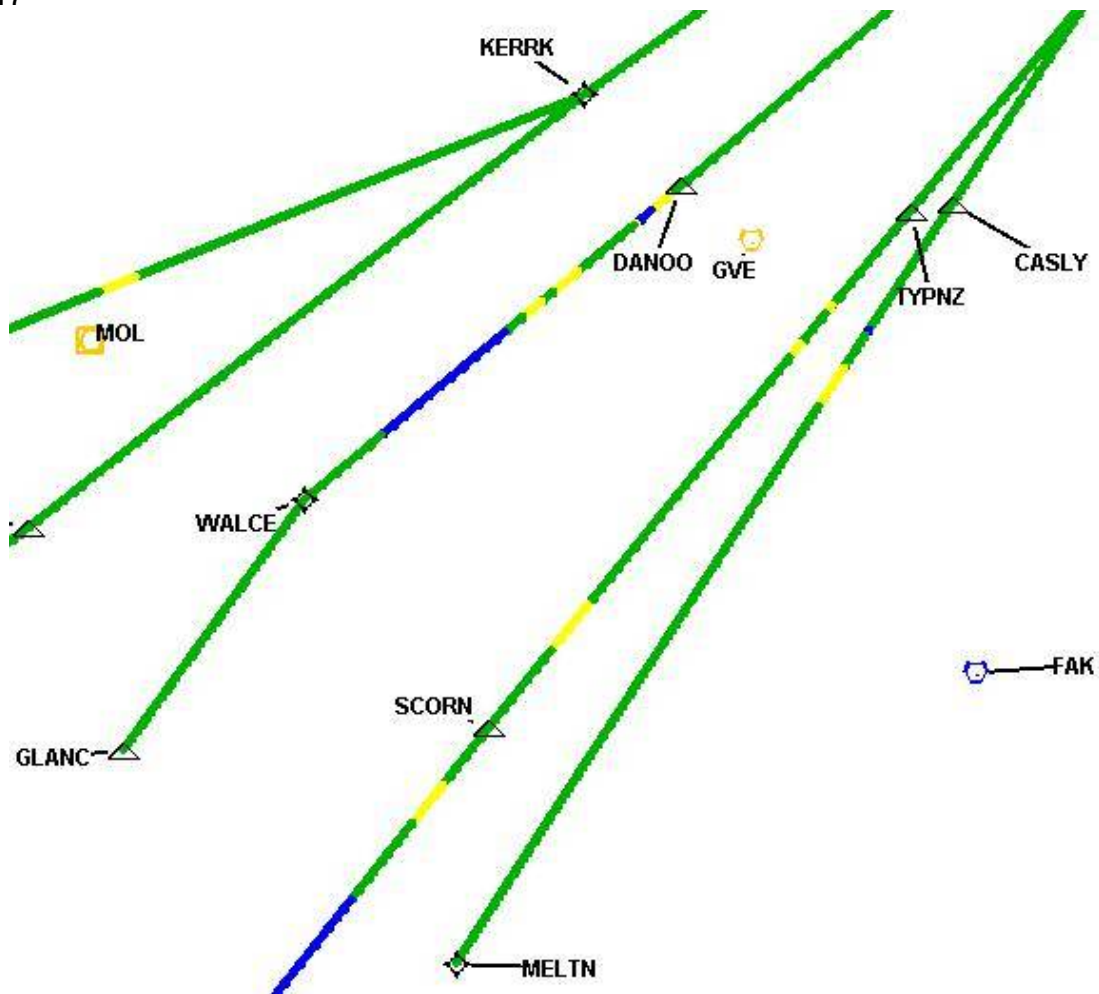
DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

Graphic Depiction 6



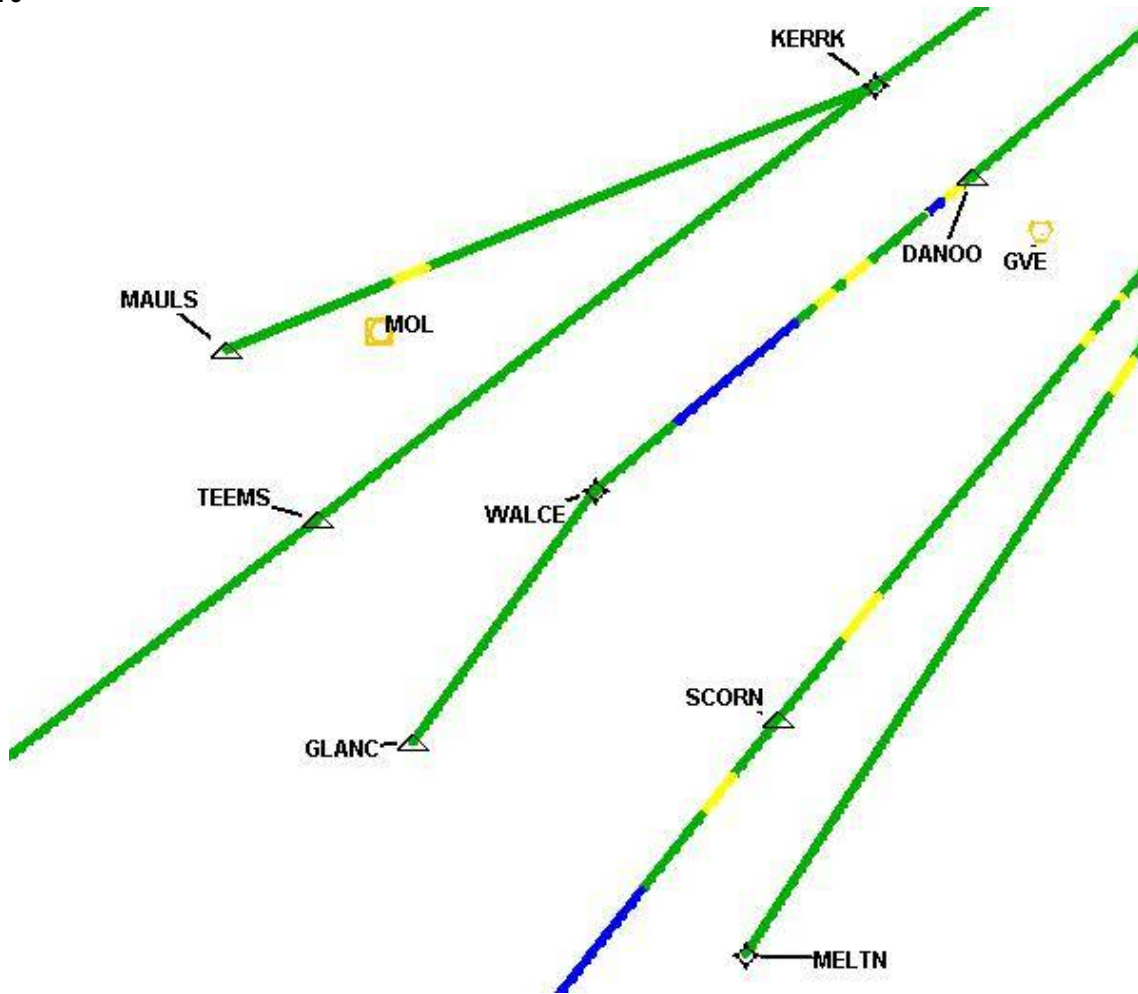
DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

Graphic Depiction 7



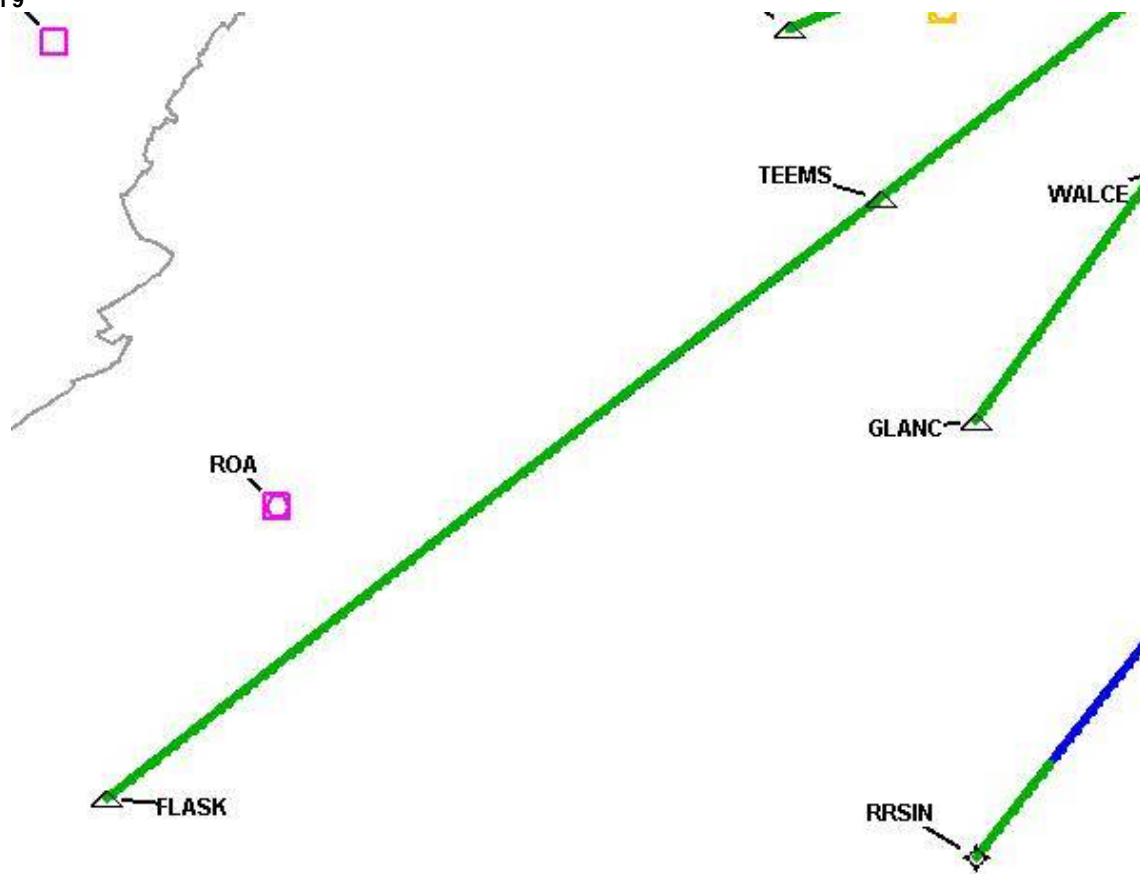
DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

Graphic Depiction 8



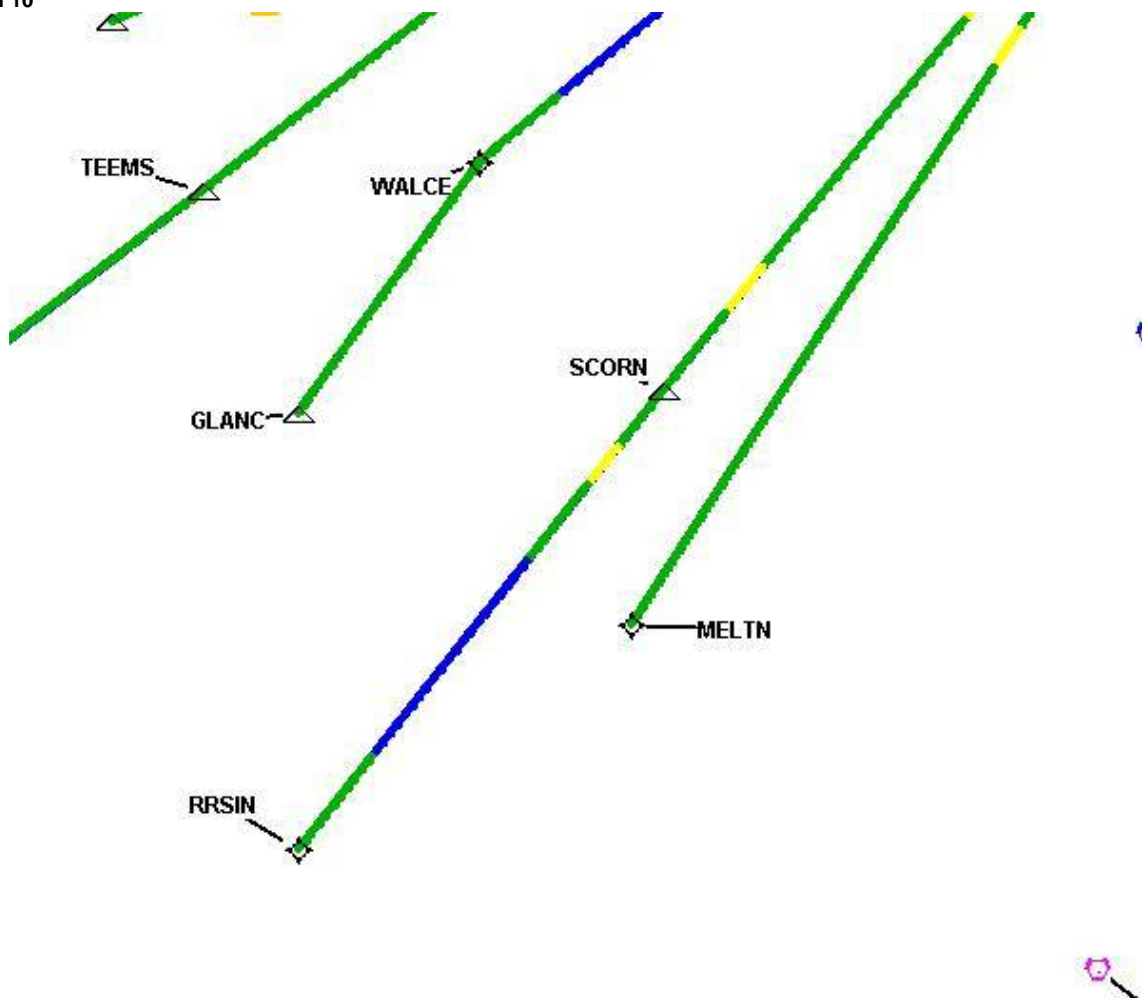
DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

Graphic Depiction 9



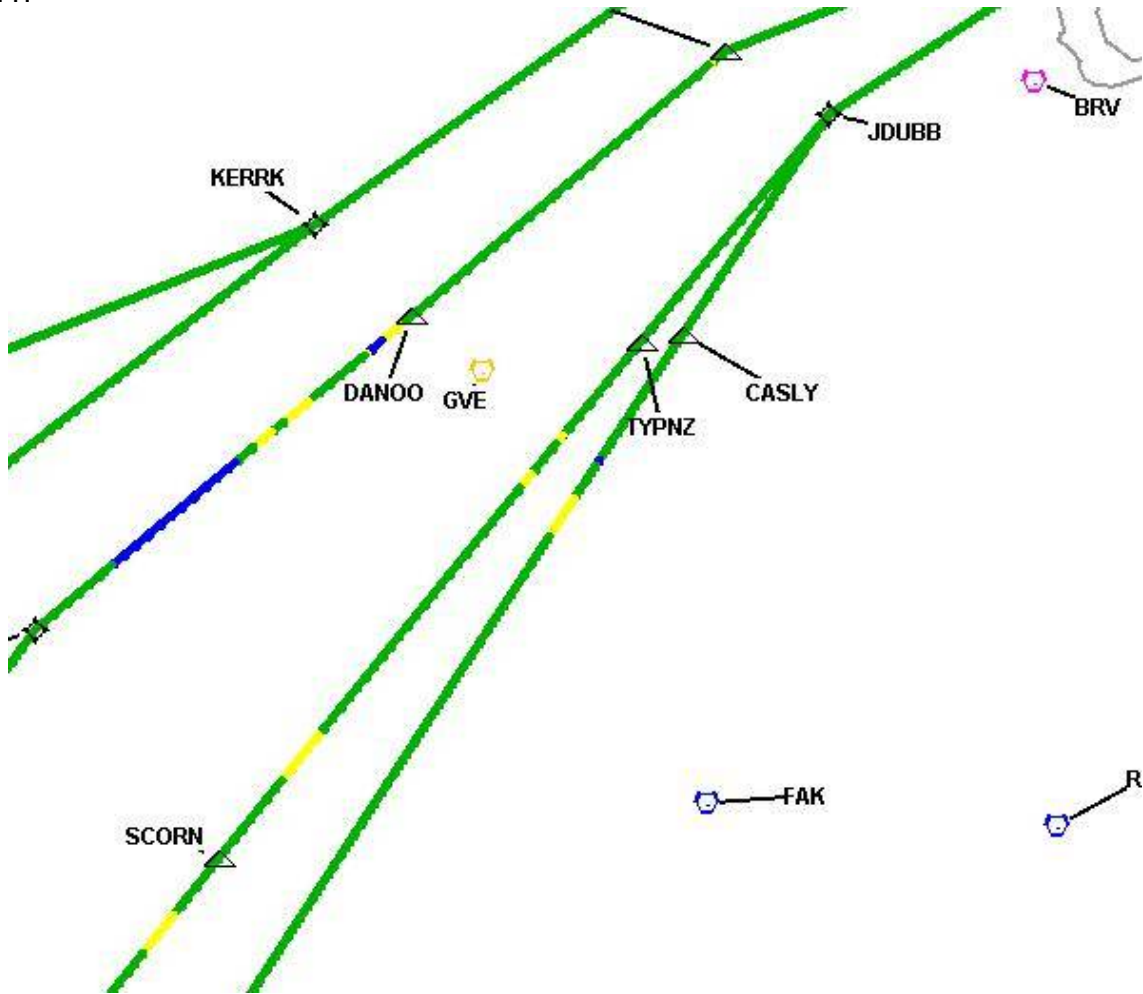
DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

Graphic Depiction 10

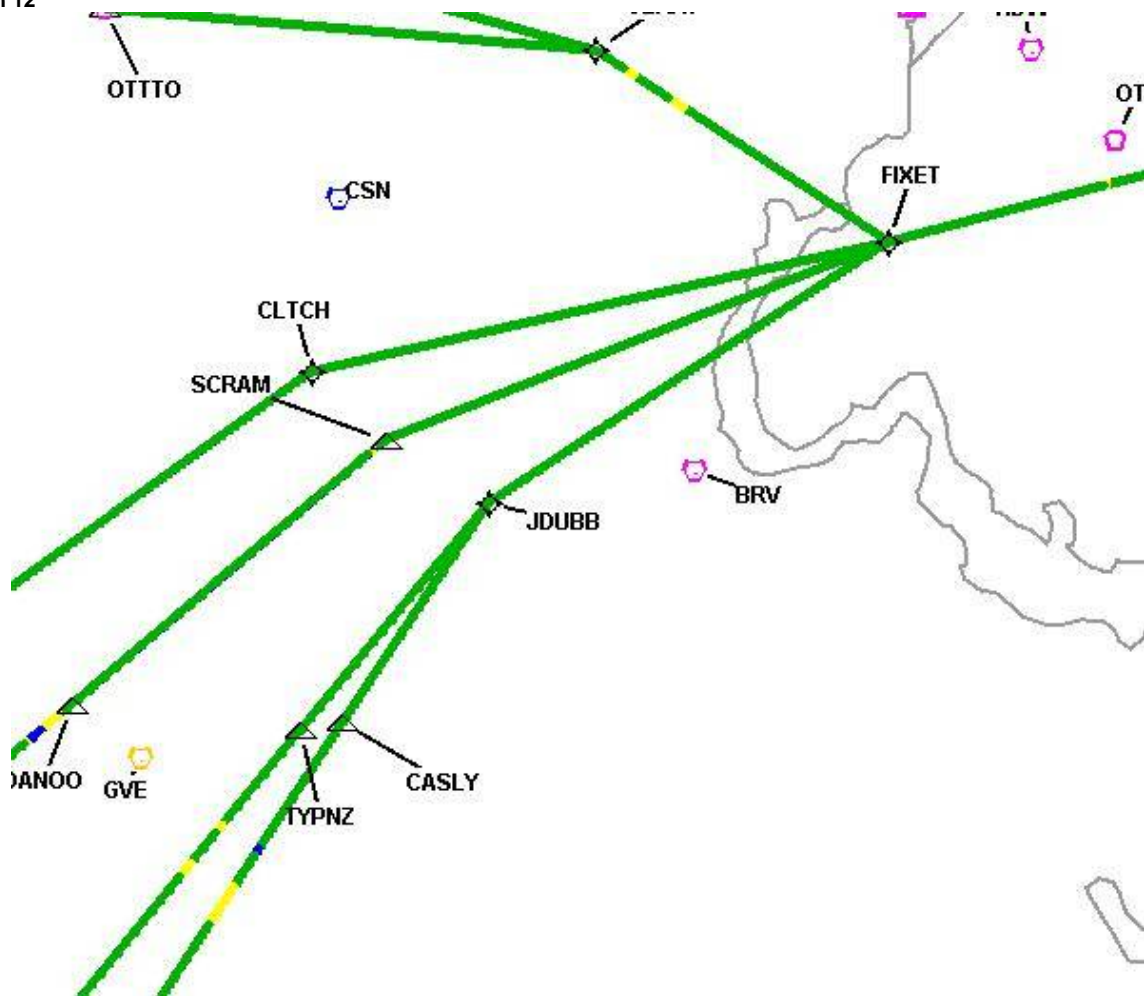


DME DME Assessment Results for FIXET4 path KBWI:RW15L:DER_BEWEE

Graphic Depiction 11



Graphic Depiction 12



DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI FIXET4 (RNAV) SID DME DME_20231212 MITRE 3DEP 3 arcsec LOW ALT.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] FIXET4 20240207_1916 EST\KBWI-RW15R-DER_BEWEE\KBWI FIXET4 SID RW15R BEWEE 20240207_1916 EST.pdf
Procedure Name:	FIXET4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 19:16 EST
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KBWI:RW15R:DER	WP	N39° 09' 51.1311", W076° 39' 44.6134"	129.6	VNAV	130	FLY_OVER	TF
KEMMP	WP	N39° 06' 36.2400", W076° 36' 44.2800"	1237.6	VNAV	200	FLY_BY	TF
BEWEE	WP	N38° 59' 29.1900", W076° 27' 14.2300"	1800	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 643.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KBWI [IFPA]
Climb Gradient:	500.0 ft/NM up to 643.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	FKN

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled	75.7 %	80.7 %
2	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled	75.7 %	80.7 %
3	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled	62 %	66.5 %
4	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled	58 %	62.3 %
5	FKN	N36° 42' 51.2443", W077° 00' 44.5488"	9.0 W	40	L	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
2.8	BAL	DCA				
4.6	DCA	EMI	BAL			
5.4	BAL	DCA	EMI	ADW		
14.1	BAL	ADW	DCA			

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N39° 09' 49.3979", W076° 39' 43.0083"	N39° 07' 36.8318", W076° 37' 40.3103"	2.7206

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KBWI:RW15R:DER	KEMMP	DCA, BAL	
KEMMP	BEWEE	EMI, DCA, ADW, BAL	

DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

User Data Files

File Name

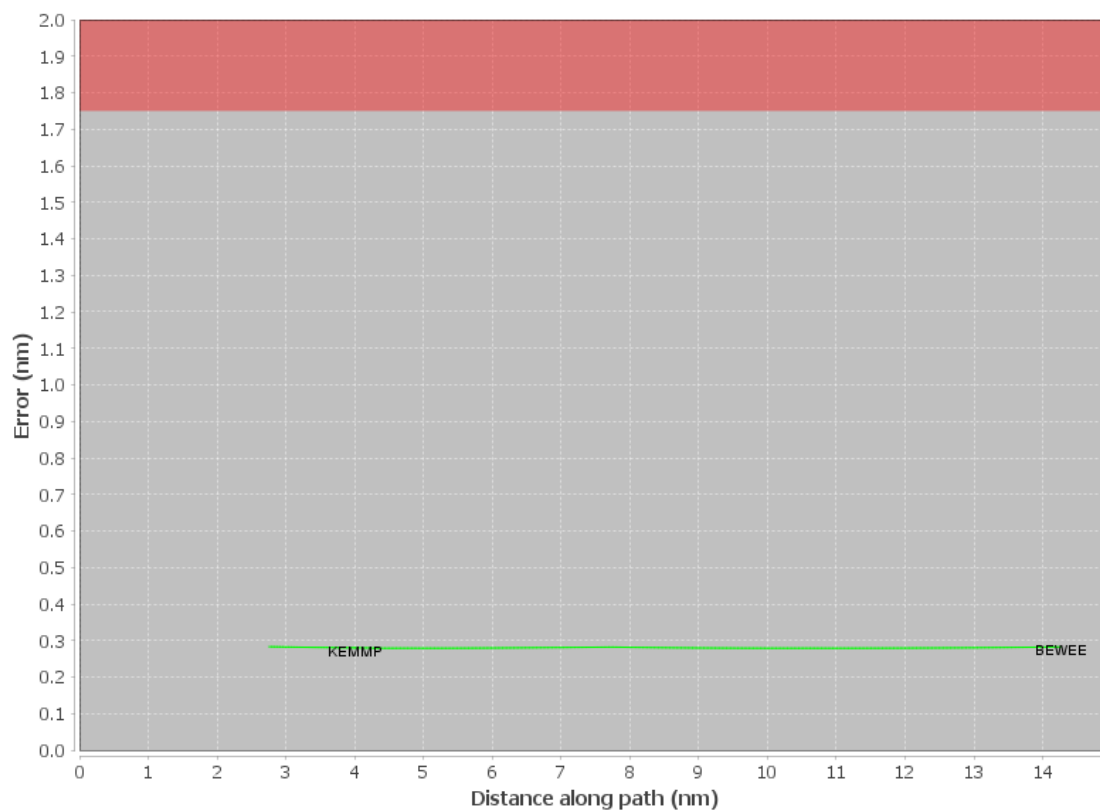
None

User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GVE FAA 698194-12 GVE [IFPA]	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	GVE FAA 698194-12	
ESV:		Bearing [True]: 173.0° to 218.0° Bearing [Mag]: 179.0° to 224.0°				Arc Distance: Out to 58.0 NM Altitude: 8000.0 to 16000.0 ft		
2	AML FAA 732650-41 AML [IFPA]	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	295.7	113.5	AML FAA 732650-41	
ESV:		Bearing [True]: 172.0° to 242.0° Bearing [Mag]: 180.0° to 250.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 20000.0 ft		
3	CSN FAA 682017-12 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-12	
ESV:		Bearing [True]: 183.0° to 215.0° Bearing [Mag]: 189.0° to 221.0°				Arc Distance: Out to 96.0 NM Altitude: 7500.0 to 16000.0 ft		
4	RIC FAA 704161-21 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-21	
ESV:		Bearing [True]: 285.0° to 9.0° Bearing [Mag]: 294.0° to 18.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 16000.0 ft		
5	FAK FAA 698146-14 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-14	
ESV:		Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
6	HPW FAA 698117-16 HPW [IFPA]	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	70	114.35	HPW FAA 698117-16	
ESV:		Bearing [True]: 259.0° to 284.0° Bearing [Mag]: 265.0° to 290.0°				Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 18000.0 ft		

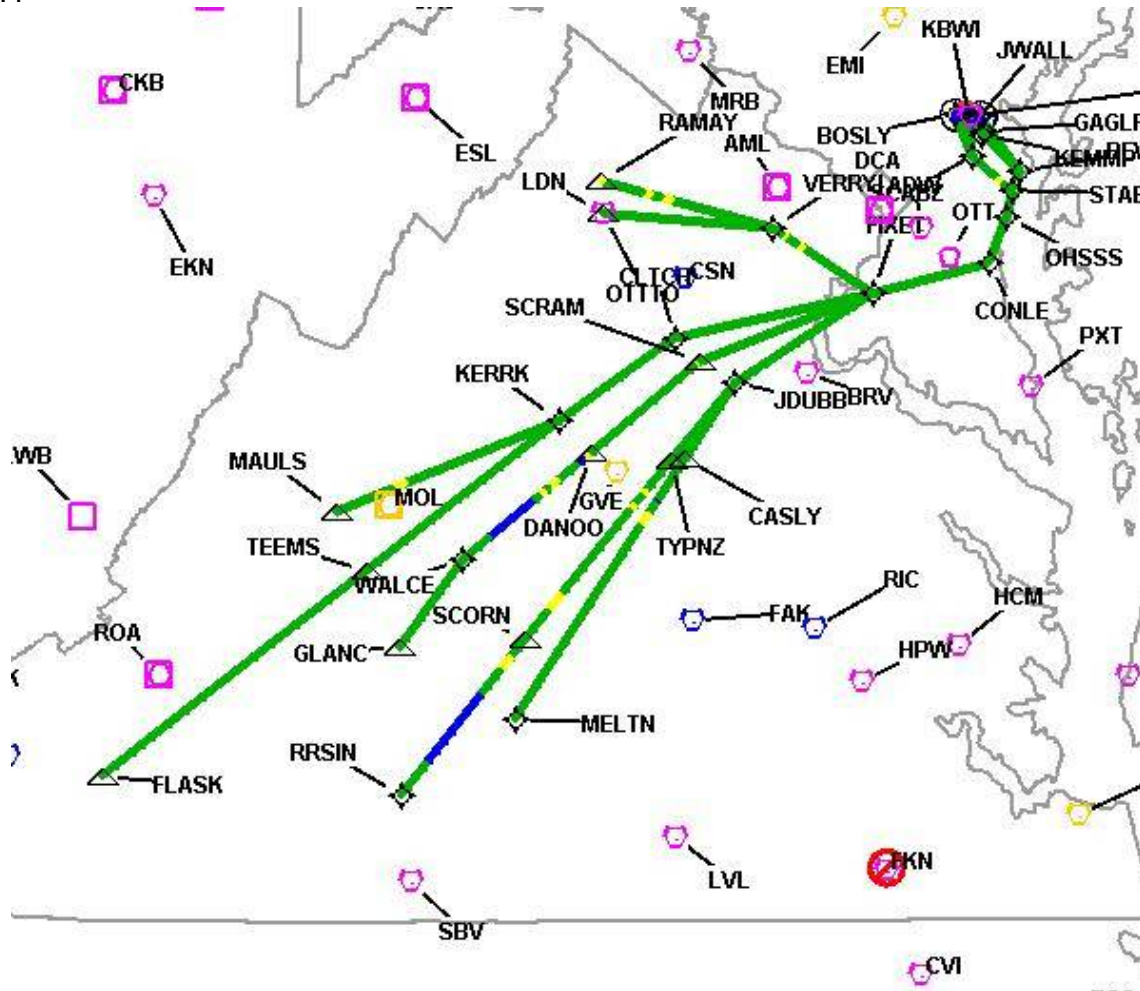
DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

DME Error



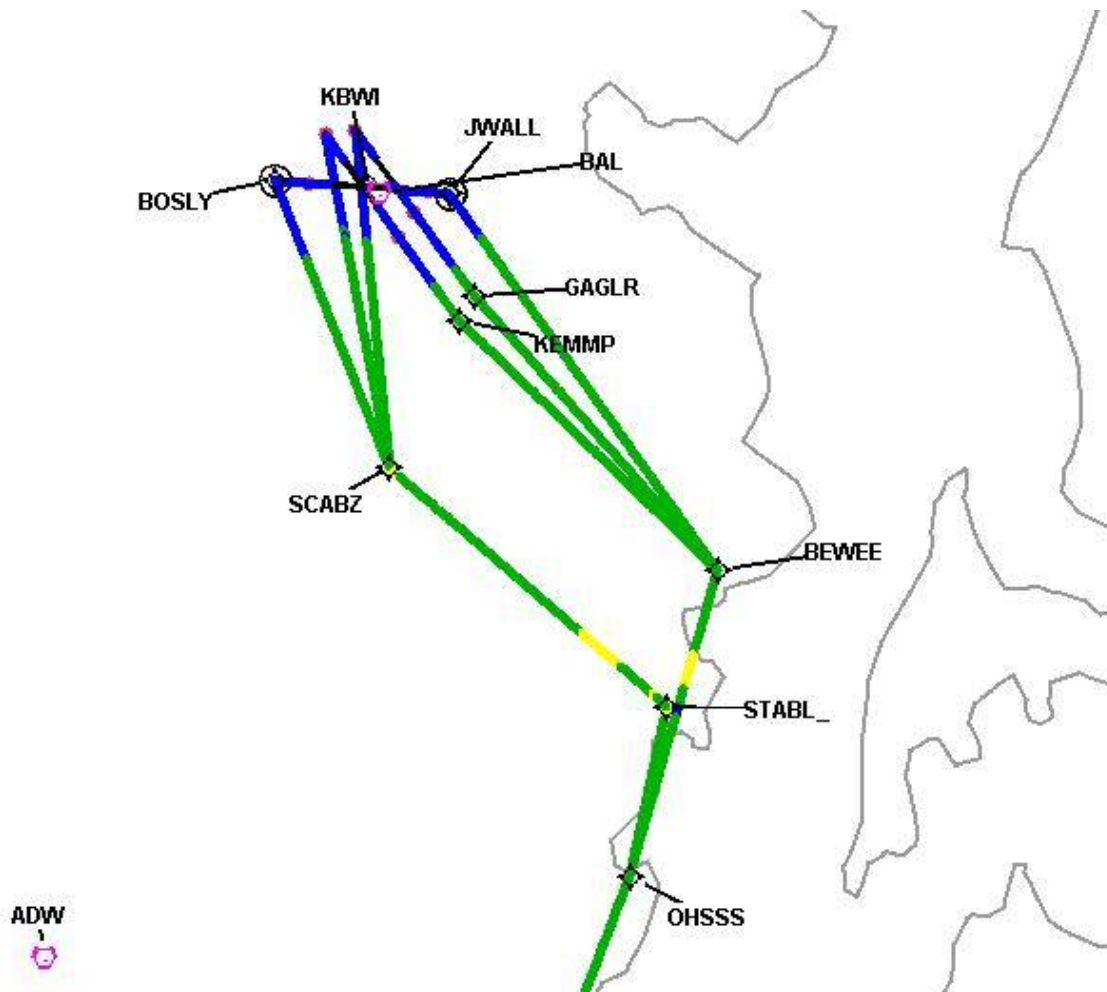
DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

Graphic Depiction 1



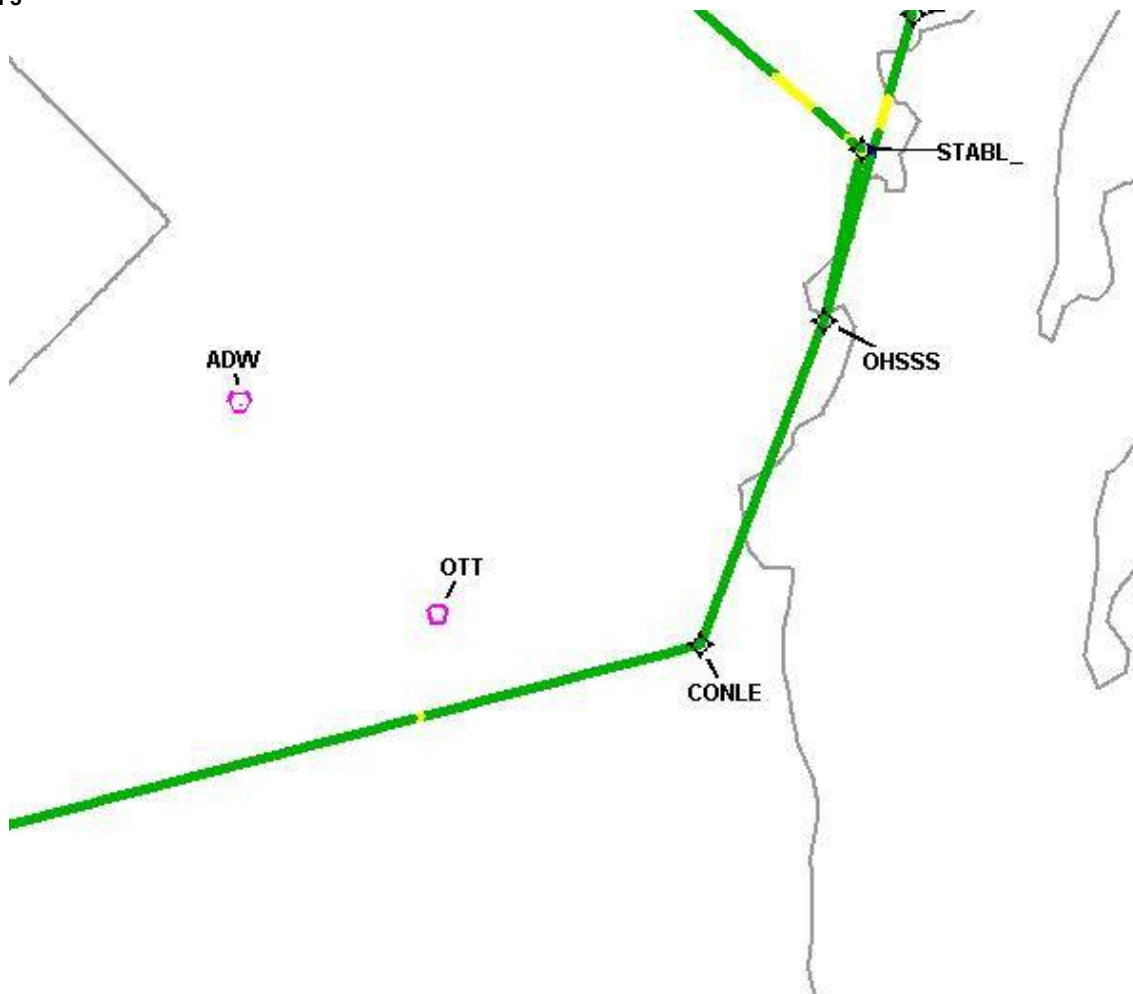
DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

Graphic Depiction 2



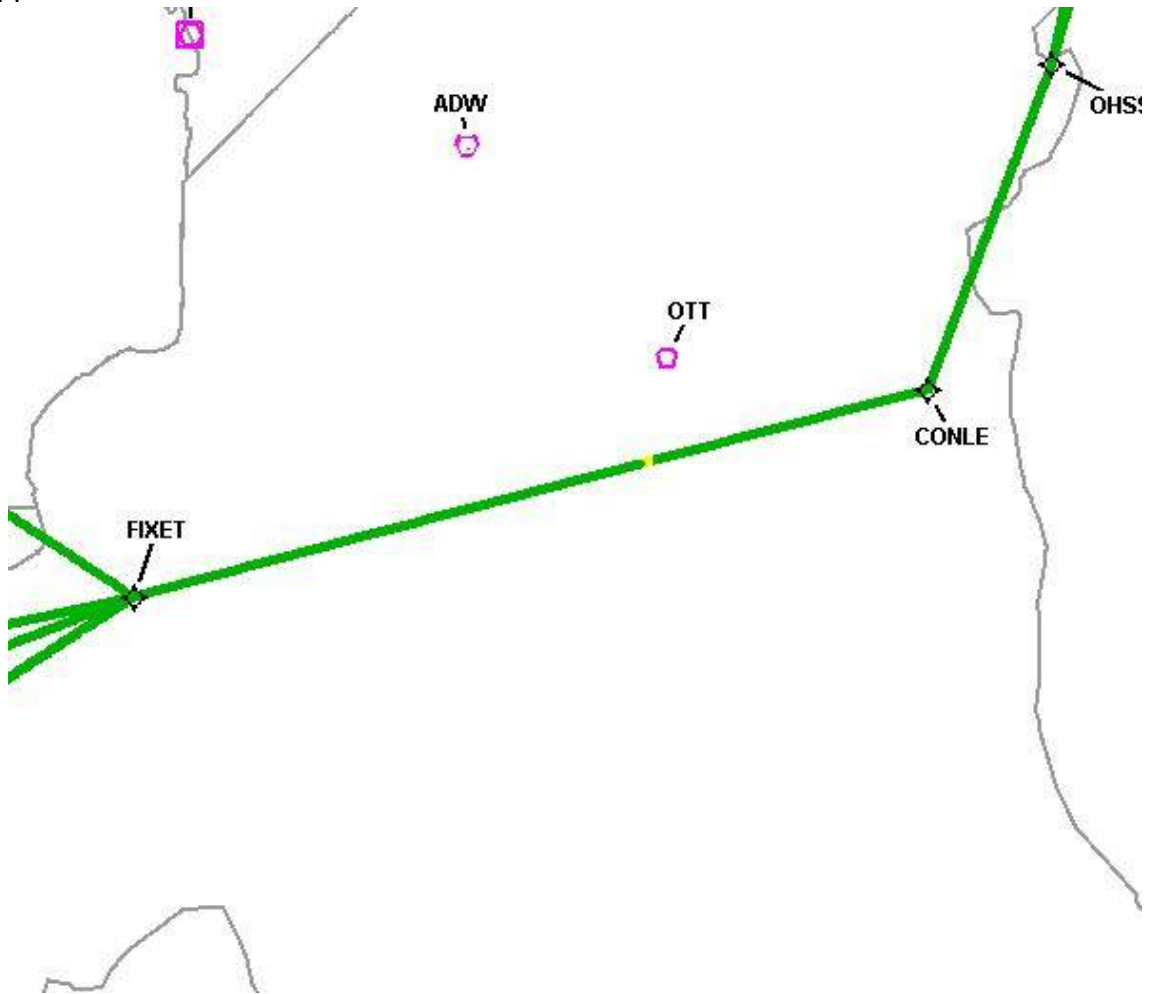
DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

Graphic Depiction 3



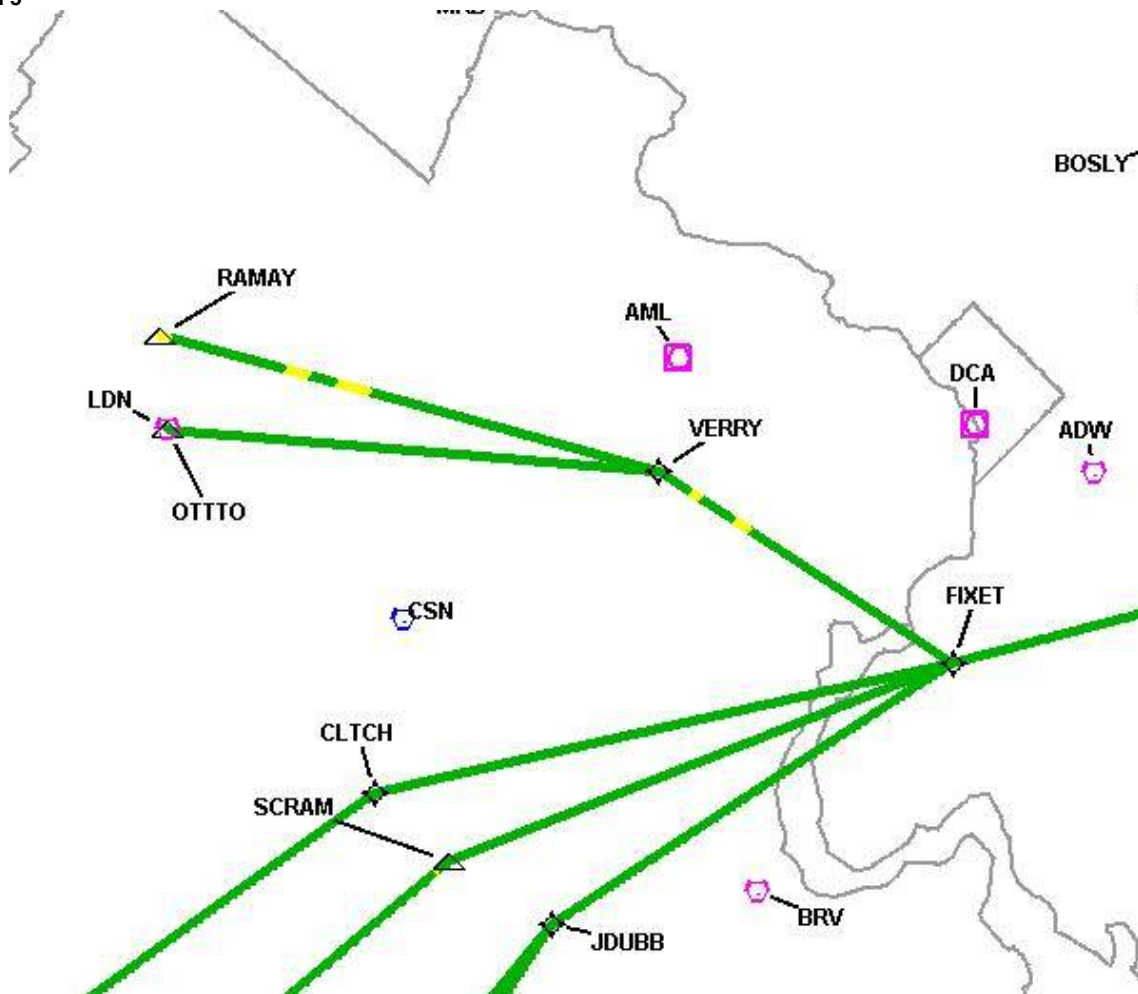
DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

Graphic Depiction 4



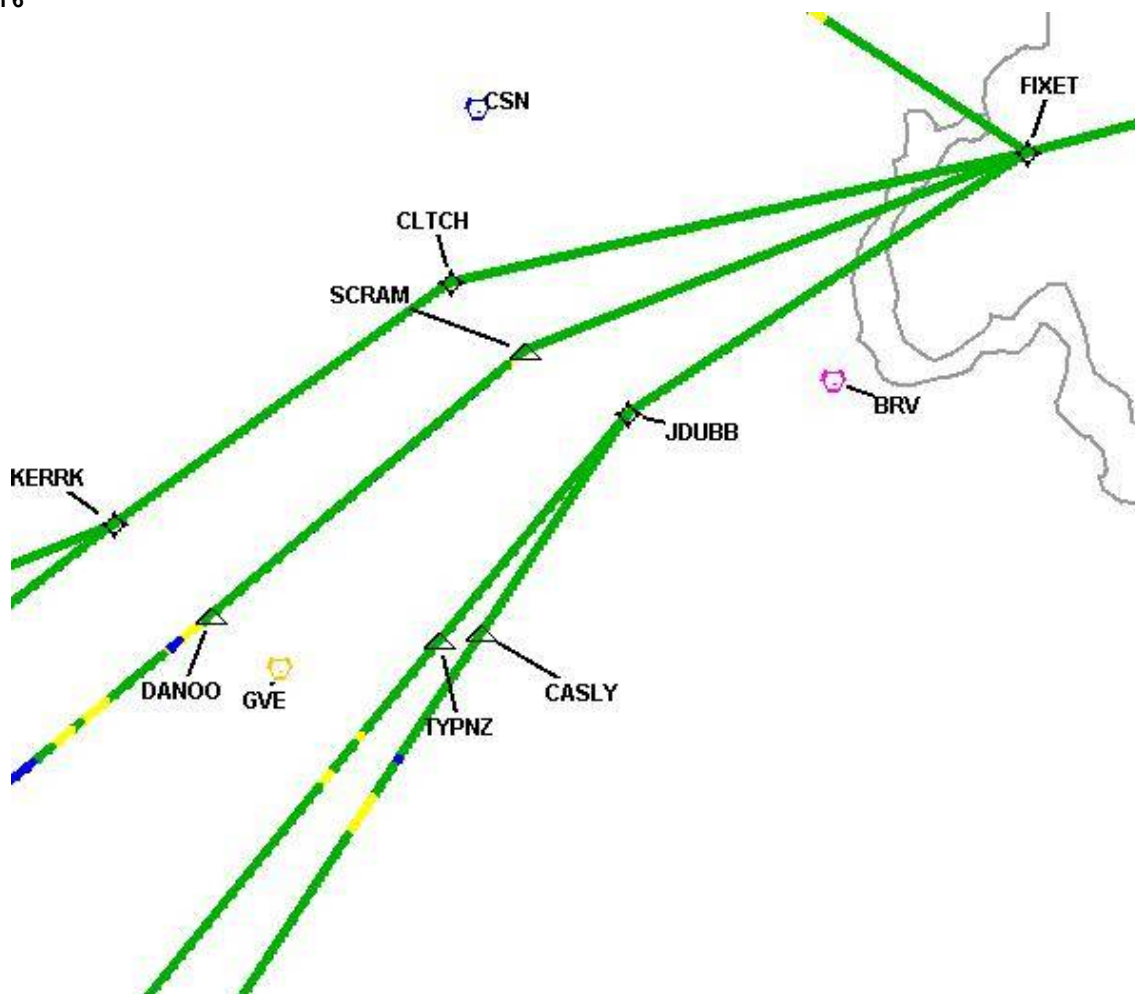
DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

Graphic Depiction 5



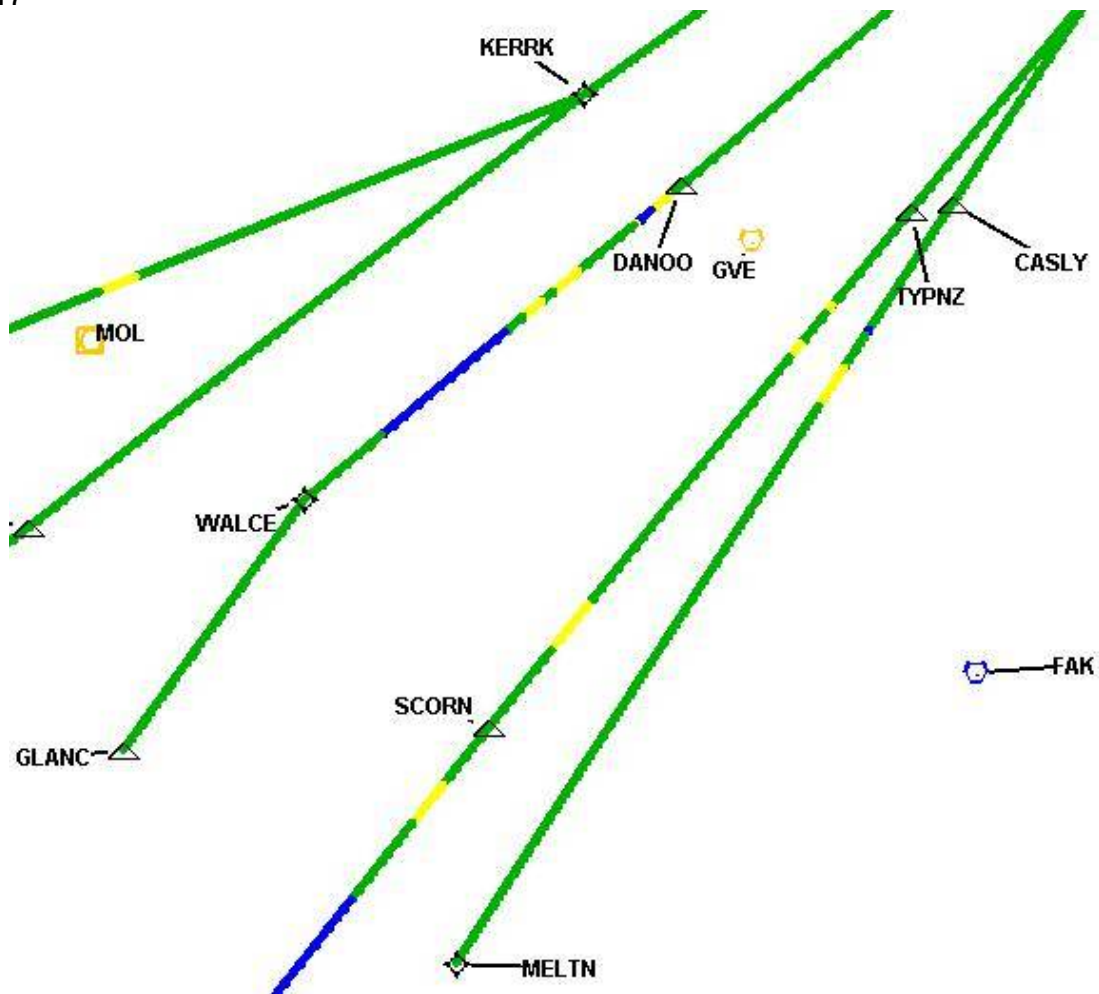
DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

Graphic Depiction 6



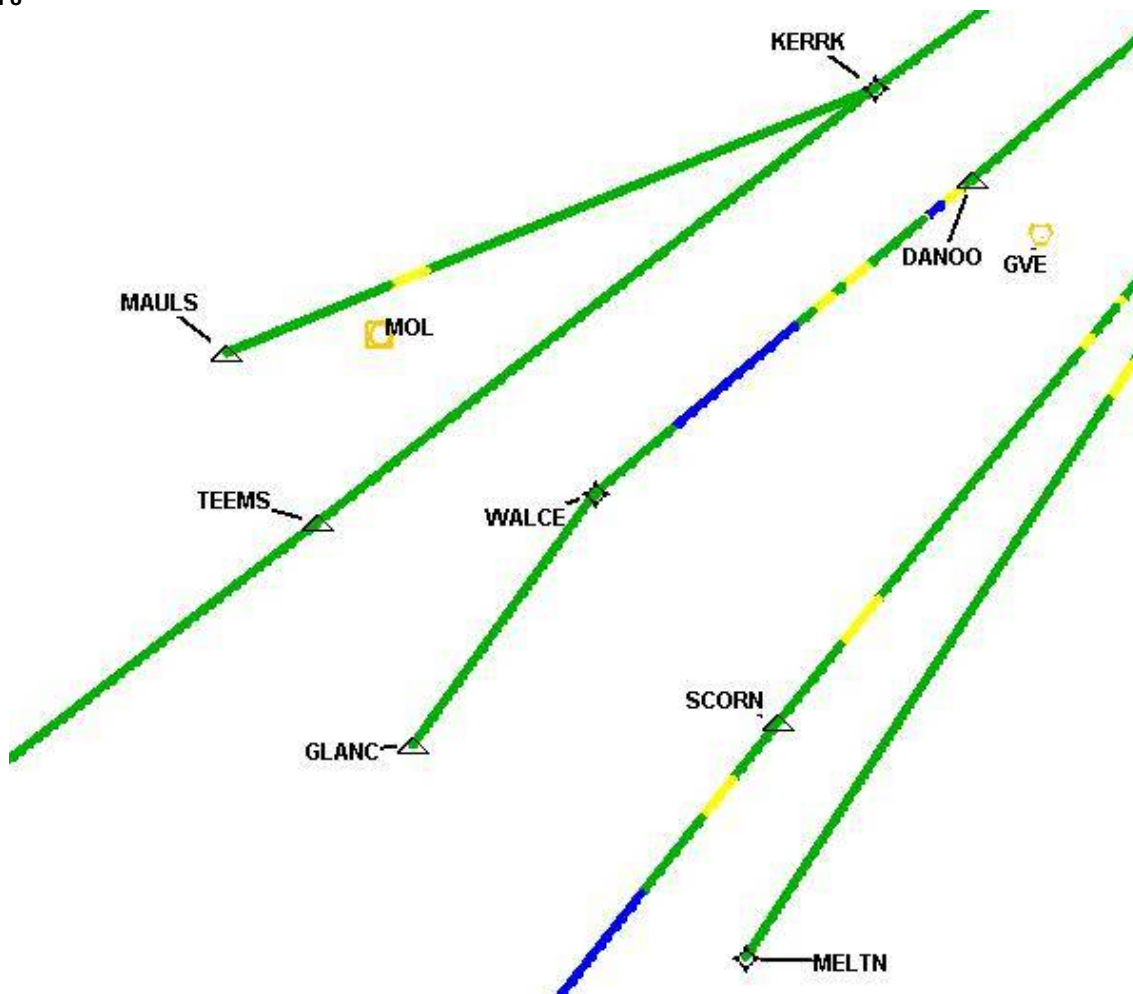
DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

Graphic Depiction 7



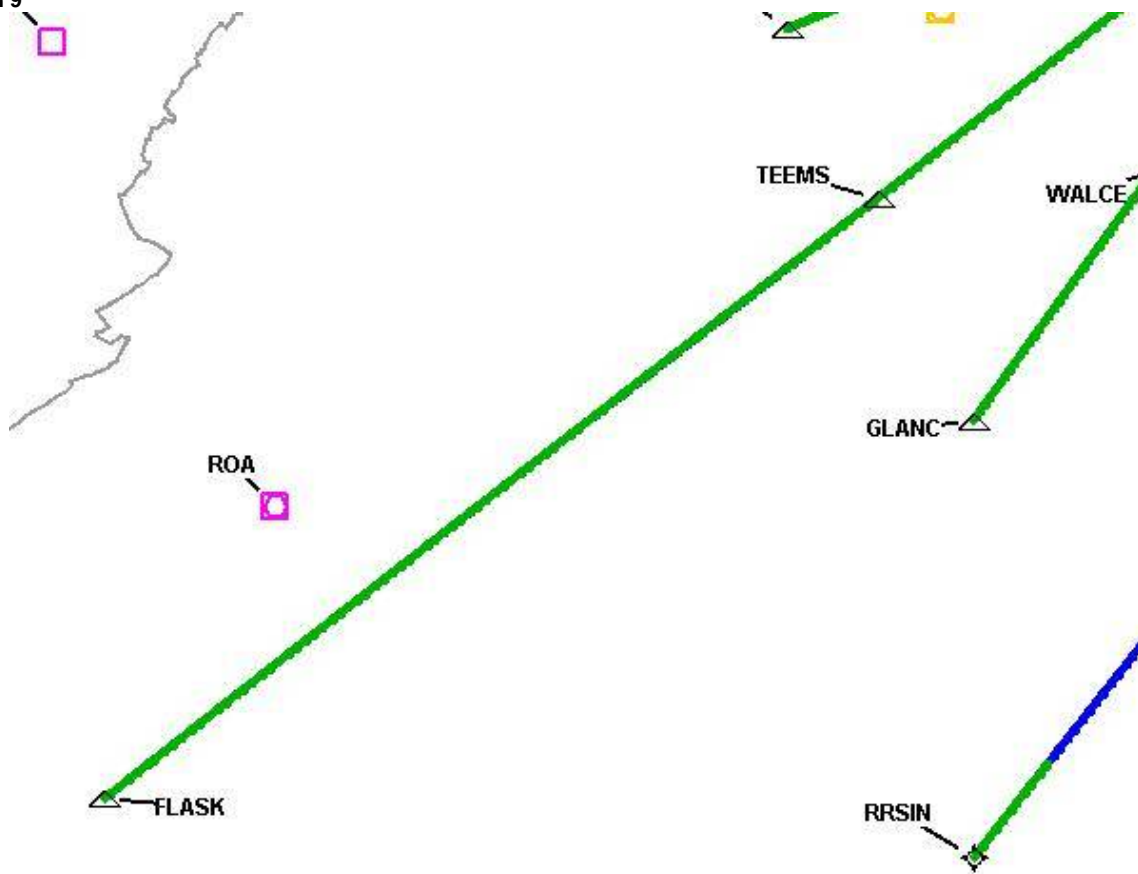
DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

Graphic Depiction 8



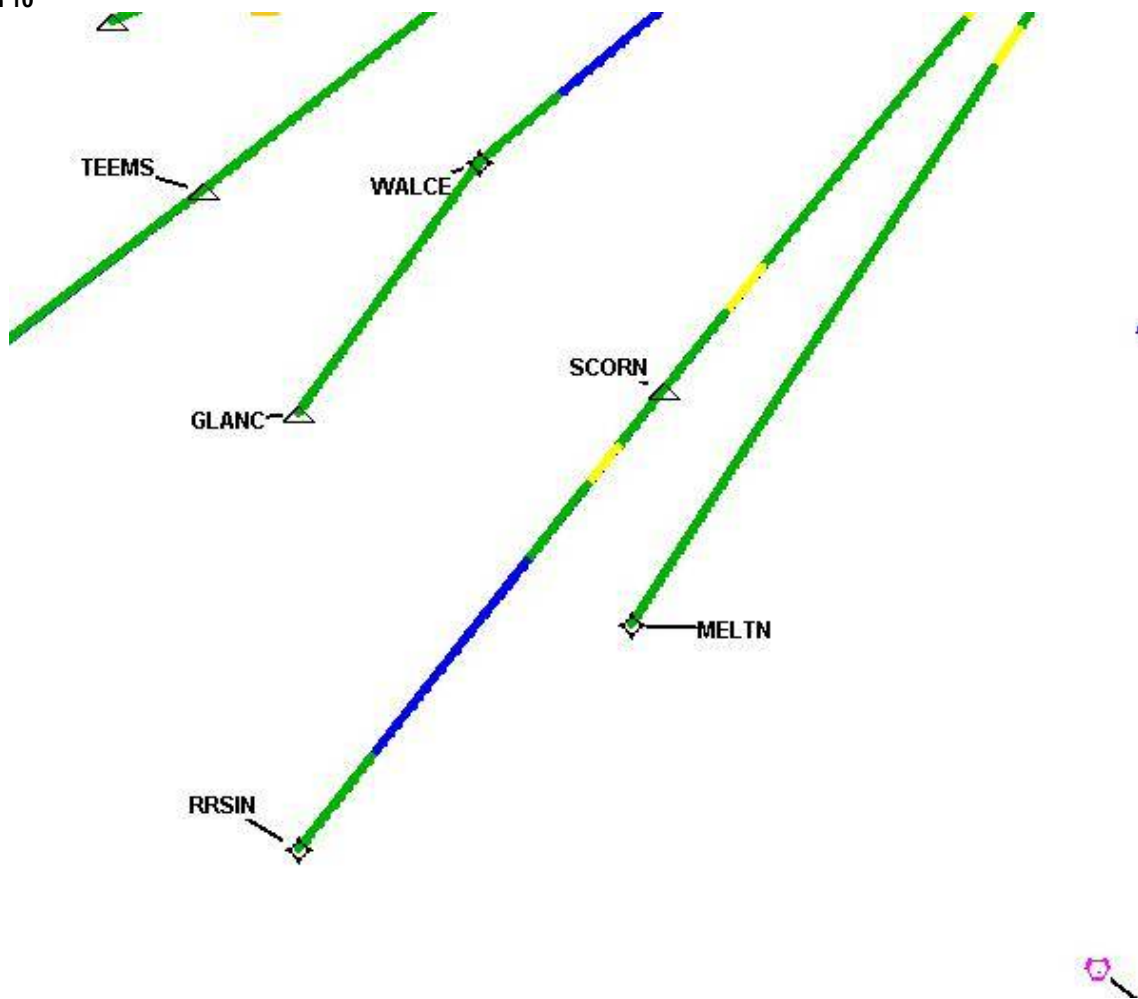
DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

Graphic Depiction 9



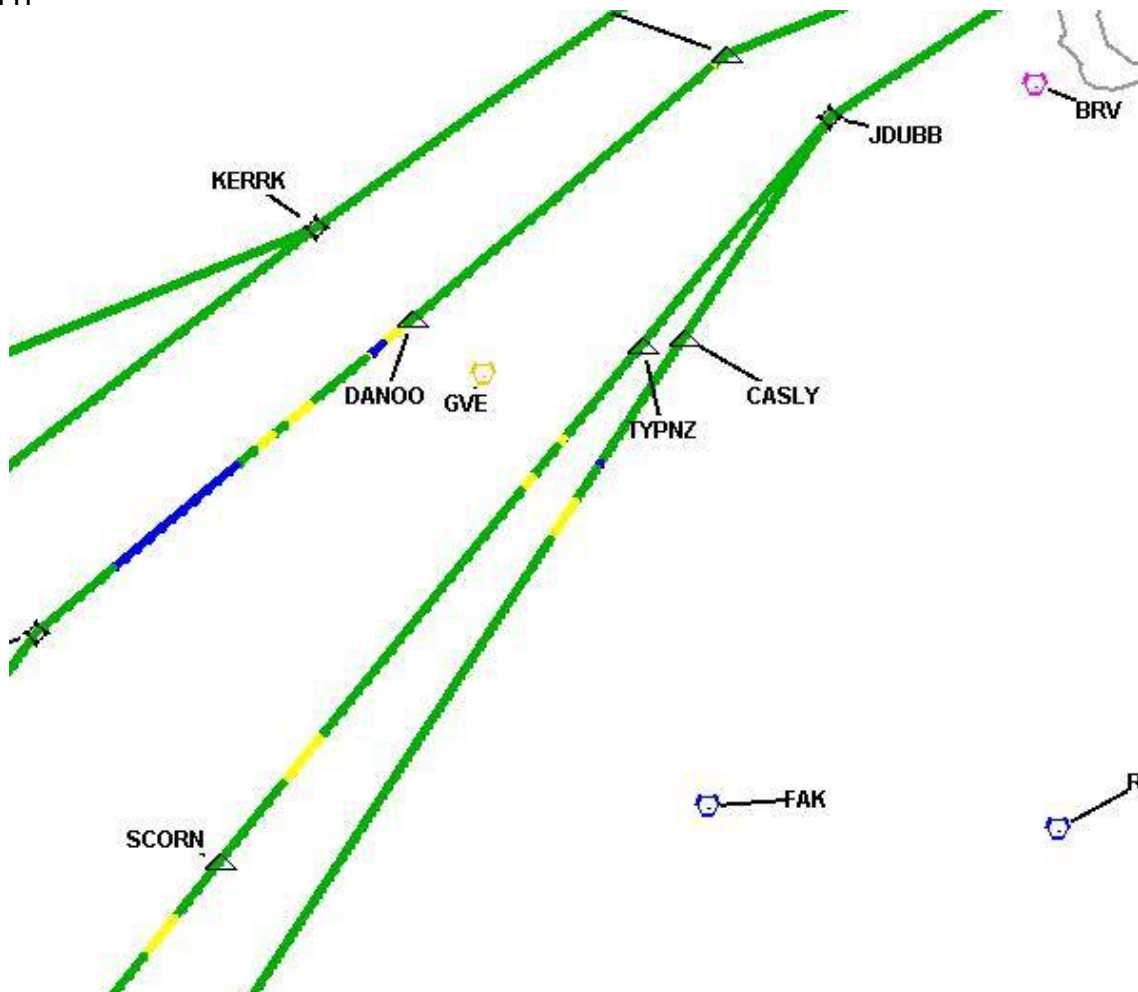
DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

Graphic Depiction 10



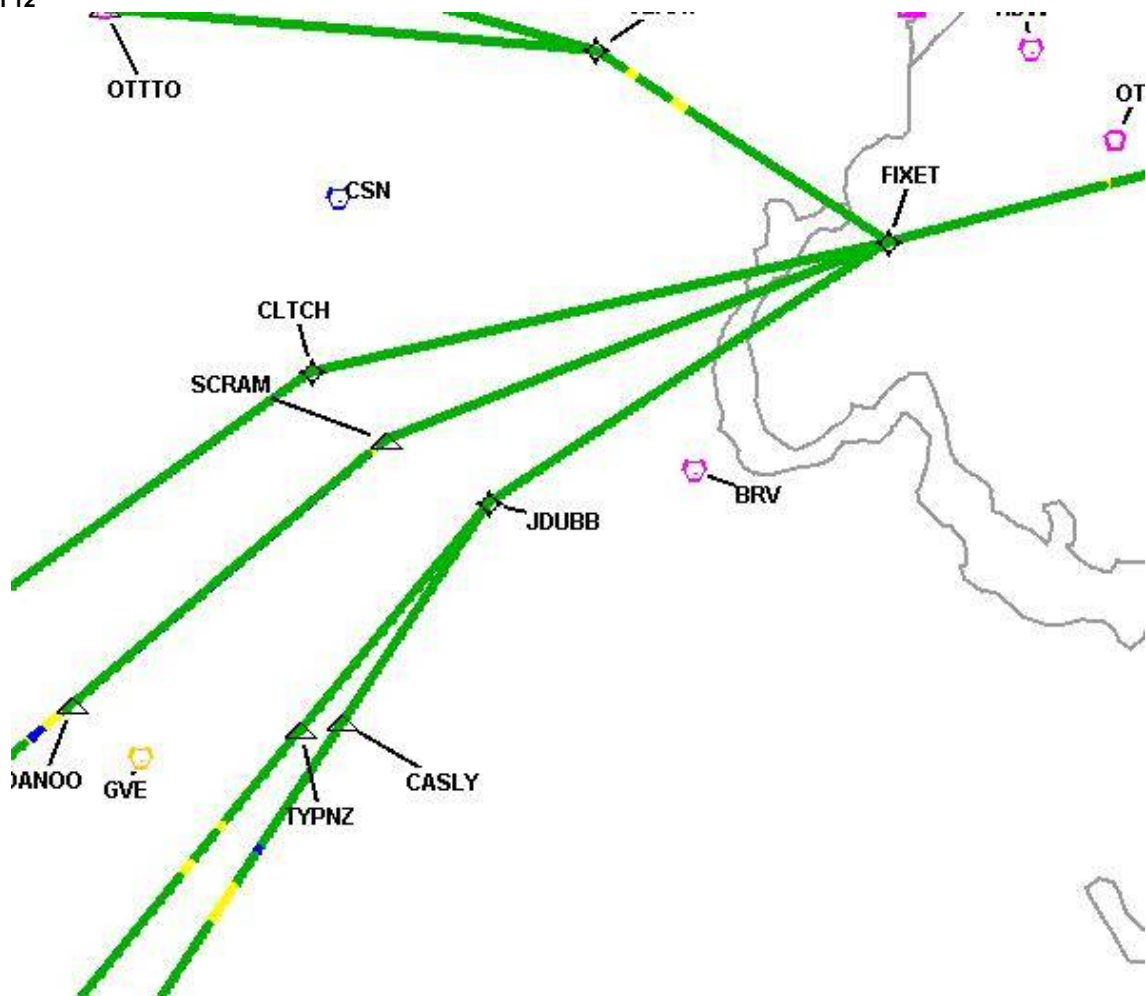
DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

Graphic Depiction 11



DME DME Assessment Results for FIXET4 path KBWI:RW15R:DER_BEWEE

Graphic Depiction 12



DME DME Assessment Results for FIXET4 path KBWI:RW28:DER_FLASK

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI FIXET4 (RNAV) SID DME DME_20231212 MITRE 3DEP 3 arcsec LOW ALT.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] FIXET4 20240207_1916 EST\KBWI-RW28-DER_FLASK\KBWI FIXET4 SID RW28 FLASK 20240207_1916 EST.pdf
Procedure Name:	FIXET4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 19:16 EST
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KBWI:RW28:DER	WP	N39° 10' 29.0895", W076° 41' 22.6248"	141.4	VNAV	130	FLY_OVER	TF
BOSLY	WP	N39° 10' 36.6500", W076° 43' 31.3200"	700	VNAV	230	FLY_OVER	TF
SCABZ	WP	N39° 02' 24.5500", W076° 39' 18.3700"	1800	VNAV	230	FLY_BY	TF
STABL_	WP	N38° 55' 37.0700", W076° 29' 06.9500"	1800	VNAV	230	FLY_BY	TF
OHSSS	WP	N38° 50' 45.5600", W076° 30' 28.4800"	1800	VNAV	200	FLY_BY	TF
CONLE	WP	N38° 41' 30.2600", W076° 35' 01.6200"	3781.6	VNAV	200	FLY_BY	TF
FIXET	WP	N38° 35' 34.7700", W077° 04' 16.3200"	9000	VNAV	200	FLY_BY	TF
CLTCH	WP	N38° 26' 51.6200", W077° 54' 20.1400"	9000	VNAV	200	FLY_BY	TF
KERRK	WP	N38° 10' 33.7700", W078° 23' 35.8600"	15000	VNAV	240	FLY_BY	TF
TEEMS	WP	N37° 41' 25.9000", W079° 11' 51.8500"	16000	VNAV	240	FLY_BY	TF
FLASK	WP	N37° 01' 03.9200", W080° 18' 58.6200"	17000	VNAV	240	FLY_BY	TF

Climb Gradient:
700.0 ft/NM up to 644.0 ft MSL
200.0 ft/NM

DME DME Assessment Results for FIXET4 path KBWI:RW28:DER_FLASK

Flyability	
Flight Type:	SID
Selected Airport:	KBWI [IFPA]
Climb Gradient:	700.0 ft/NM up to 644.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	FKN

DME DME Assessment Results for FIXET4 path KBWI:RW28:DER_FLASK

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	RIC	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	H	IFPA	NO	Enabled	22.5 %	24.5 %
2	FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	H	IFPA	NO	Enabled	46 %	47.8 %
3	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H	IFPA	NO	Enabled	54.4 %	53.8 %
4	MOL	N37° 54' 03.1524", W079° 06' 22.2526"	5.0 W	40	L	IFPA	NO	Enabled	25.6 %	27.9 %
5	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled	18.3 %	17.4 %
6	GSO	N36° 02' 44.4948", W079° 58' 34.9356"	3.0 W	130	H	IFPA	NO	Enabled	21.7 %	23.7 %
7	BZM	N35° 52' 07.8740", W081° 14' 25.9040"	6.0 W	130	H	IFPA	NO	Enabled	6.6 %	7.2 %
8	OTT	N38° 42' 21.1352", W076° 44' 41.0854"	10.0 W	40	L	IFPA	NO	Enabled	25.9 %	23.9 %
9	LDN	N38° 51' 15.8344", W078° 12' 20.0559"	6.0 W	40	L	IFPA	NO	Enabled	17.4 %	15.8 %
10	ROA	N37° 20' 36.4659", W080° 04' 13.4304"	4.0 W	40	L	IFPA	NO	Enabled	21.7 %	23.7 %
11	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled	19.5 %	18.5 %
12	PXT	N38° 17' 16.2825", W076° 24' 00.8315"	10.0 W	40	L	IFPA	NO	Enabled	16.5 %	15.3 %
13	BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	L	IFPA	NO	Enabled	3.5 %	3.2 %
14	GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	H	IFPA	NO	Enabled	47.9 %	49.9 %
15	PSK	N37° 05' 15.6676", W080° 42' 46.3767"	6.0 W	130	H	IFPA	NO	Enabled	9 %	9.9 %
16	AML	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	L	IFPA	NO	Enabled	37.3 %	33.8 %
17	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled	33.8 %	31.6 %
18	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled	6 %	6.2 %
19	FKN	N36° 42' 51.2443", W077° 00' 44.5488"	9.0 W	40	L	IFPA	NO	Disabled		

DME DME Assessment Results for FIXET4 path KBWI:RW28:DER_FLASK

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
4.0	DCA	EMI				
9.7	DCA	EMI	BAL			
10.5	DCA	EMI	ADW	BAL		
12.2	DCA	EMI	BAL	ADW	OTT	
12.6	DCA	EMI	BAL	ADW		
17.8	ADW	EMI	BAL	DCA	OTT	
19.2	BAL	ADW	DCA			
20.2	BAL	ADW	DCA	OTT		
20.4	PXT	DCA	BAL	ADW	OTT	
20.6	BAL	ADW				
21.0	BAL	ADW	PXT	OTT		
21.5	ADW	PXT	OTT			
21.9	BAL	ADW	PXT	OTT		
29.2	OTT	BAL	ADW	PXT	DCA	
37.5	OTT	BAL	DCA	ADW		
40.2	OTT	BAL	DCA	ADW	PXT	
40.3	BAL	DCA	ADW	PXT		
44.1	AML	BAL	DCA	PXT	ADW	
52.9	OTT	DCA	AML	BAL	PXT	
55.2	OTT	DCA	AML	PXT		
58.3	CSN	DCA	AML	OTT	PXT	
60.6	CSN	DCA	AML	OTT		
64.0	AML	OTT	CSN	DCA	BRV	
71.9	AML	OTT	CSN	DCA		
82.5	AML	CSN	DCA			
82.6	LDN	DCA	AML	CSN		
87.2	LDN	GVE	CSN	DCA	AML	
89.6	LDN	GVE	CSN	AML		
98.0	AML	LDN	GVE	FAK		
99.0	AML	LDN	GVE	FAK	CSN	
99.8	AML	LDN	GVE	FAK		
100.5	AML	LDN	GVE	CSN	FAK	
104.5	AML	LDN	FAK	CSN		
114.9	AML	FAK	CSN	LDN	GVE	
121.1	AML	FAK	GVE	CSN		
126.3	AML	GVE	CSN	FAK	MOL	
126.4	CSN	RIC	GVE	MOL		
127.8	CSN	GVE	RIC	MOL	FAK	
149.3	CSN	FAK	RIC	GVE		
158.4	CSN	FAK	MOL	RIC	GVE	
181.2	MOL	FAK	RIC	CSN		
185.5	MOL	FAK	GSO	RIC	GVE	ROA
185.9	MOL	FAK	GSO	GVE	ROA	CSN
190.7	FAK	GSO	MOL	ROA	GVE	
203.3	ROA	GSO	FAK	GVE		
215.7	ROA	GSO	GVE			
219.0	PSK	GSO	ROA	GVE		
223.1	PSK	ROA	GSO			
225.4	PSK	ROA	GSO	BZM		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N39° 10' 29.2472", W076° 41' 25.3872"	N39° 08' 26.2602", W076° 42' 24.1934"	3.971

DME DME Assessment Results for FIXET4 path KBWI:RW28:DER_FLASK

Available DMEs by Waypoints

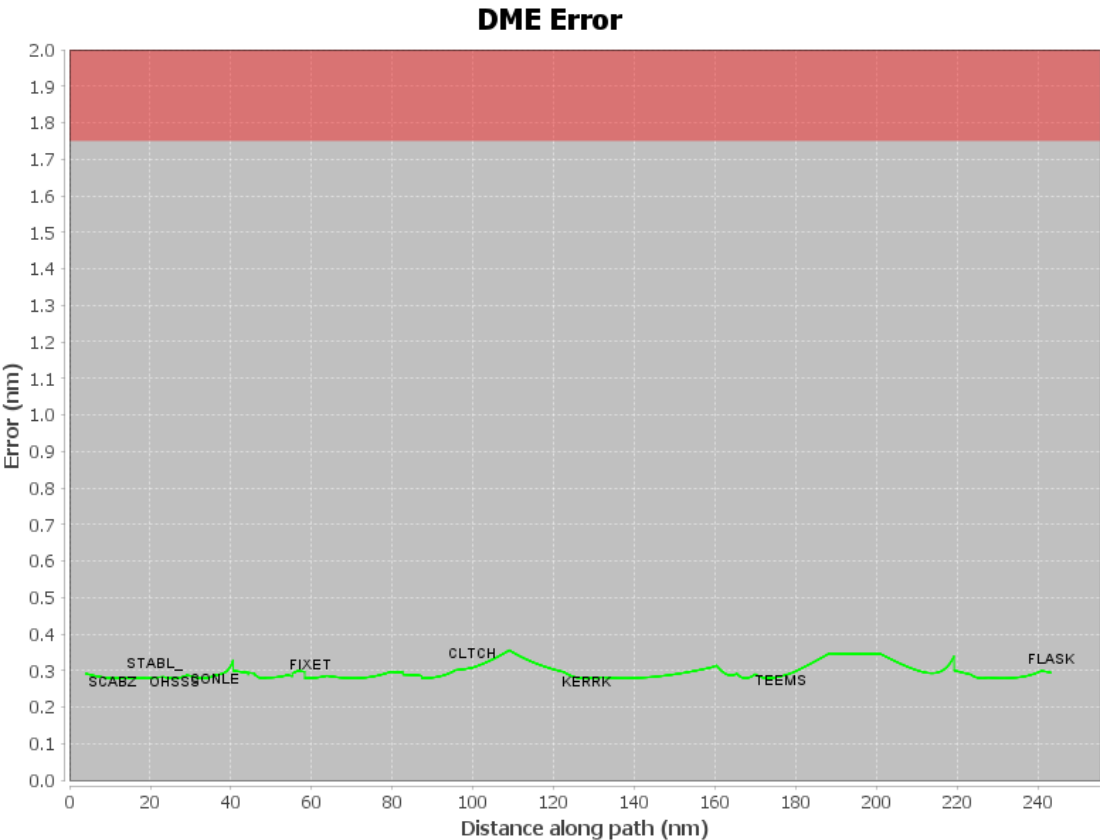
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KBWI:RW28:DER	BOSLY		
BOSLY	SCABZ	EMI, DCA, ADW, BAL	
SCABZ	STABL_	EMI, DCA, ADW, BAL, PXT, OTT	
STABL_	OHSSS	ADW, BAL, PXT, OTT	
OHSSS	CONLE	DCA, ADW, BAL, PXT, OTT	
CONLE	FIXET	AML, DCA, ADW, BAL, PXT, OTT, CSN	
FIXET	CLTCH	AML, FAK, DCA, BRV, LDN, GVE, PXT, OTT, CSN	
CLTCH	KERRK	AML, FAK, LDN, GVE, MOL, RIC, CSN	
KERRK	TEEMS	FAK, GVE, MOL, RIC, CSN	
TEEMS	FLASK	FAK, GSO, BZM, ROA, GVE, PSK, MOL, RIC, CSN	

User Data Files

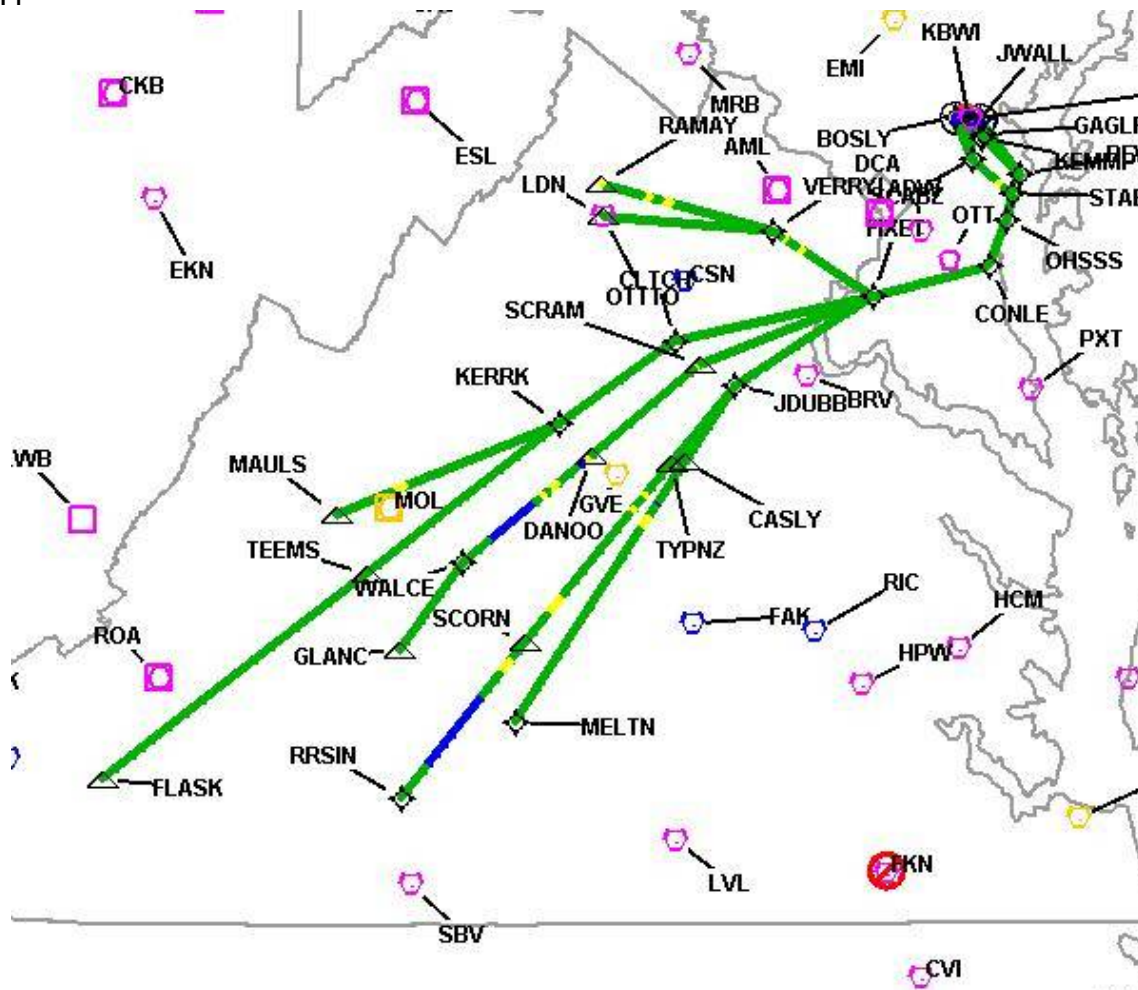
#	File Name
None	

User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GVE FAA 698194-12 GVE [IFPA]	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	GVE FAA 698194-12	
ESV:		Bearing [True]: 173.0° to 218.0° Bearing [Mag]: 179.0° to 224.0°				Arc Distance: Out to 58.0 NM Altitude: 8000.0 to 16000.0 ft		
2	AML FAA 732650-41 AML [IFPA]	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	295.7	113.5	AML FAA 732650-41	
ESV:		Bearing [True]: 172.0° to 242.0° Bearing [Mag]: 180.0° to 250.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 20000.0 ft		
3	CSN FAA 682017-12 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-12	
ESV:		Bearing [True]: 183.0° to 215.0° Bearing [Mag]: 189.0° to 221.0°				Arc Distance: Out to 96.0 NM Altitude: 7500.0 to 16000.0 ft		
4	RIC FAA 704161-21 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-21	
ESV:		Bearing [True]: 285.0° to 9.0° Bearing [Mag]: 294.0° to 18.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 16000.0 ft		
5	FAK FAA 698146-14 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-14	
ESV:		Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
6	HPW FAA 698117-16 HPW [IFPA]	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	70	114.35	HPW FAA 698117-16	
ESV:		Bearing [True]: 259.0° to 284.0° Bearing [Mag]: 265.0° to 290.0°				Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 18000.0 ft		

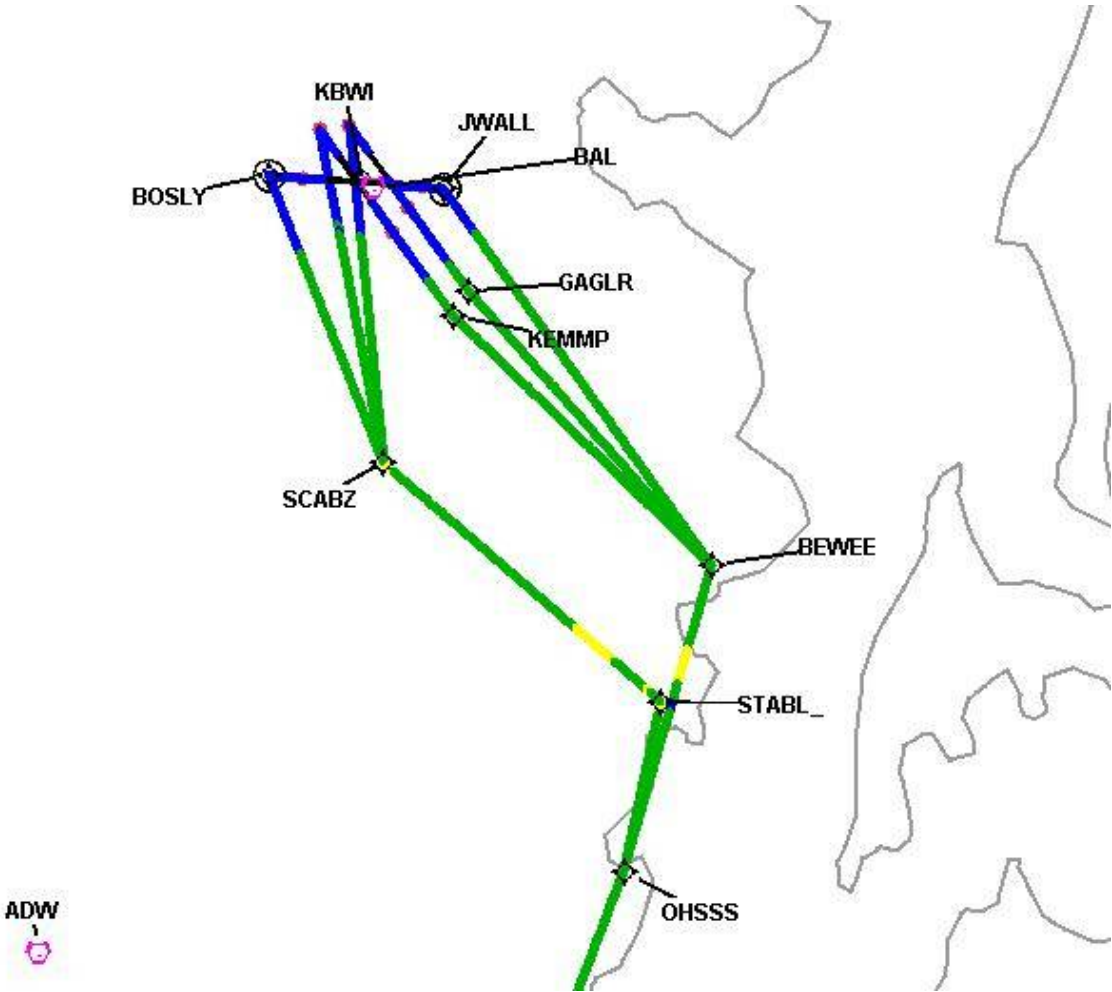


Graphic Depiction 1

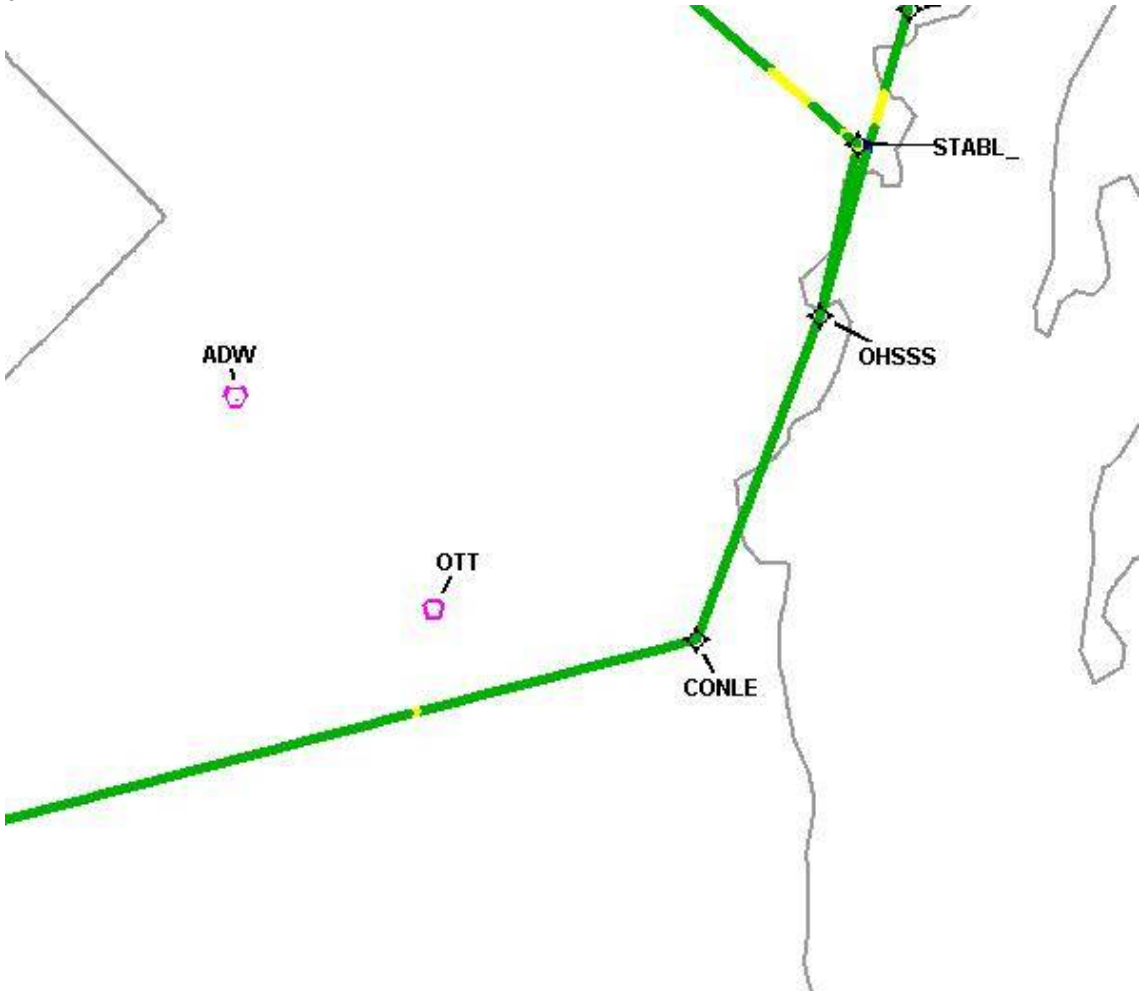


DME DME Assessment Results for FIXET4 path KBWI:RW28:DER_FLASK

Graphic Depiction 2

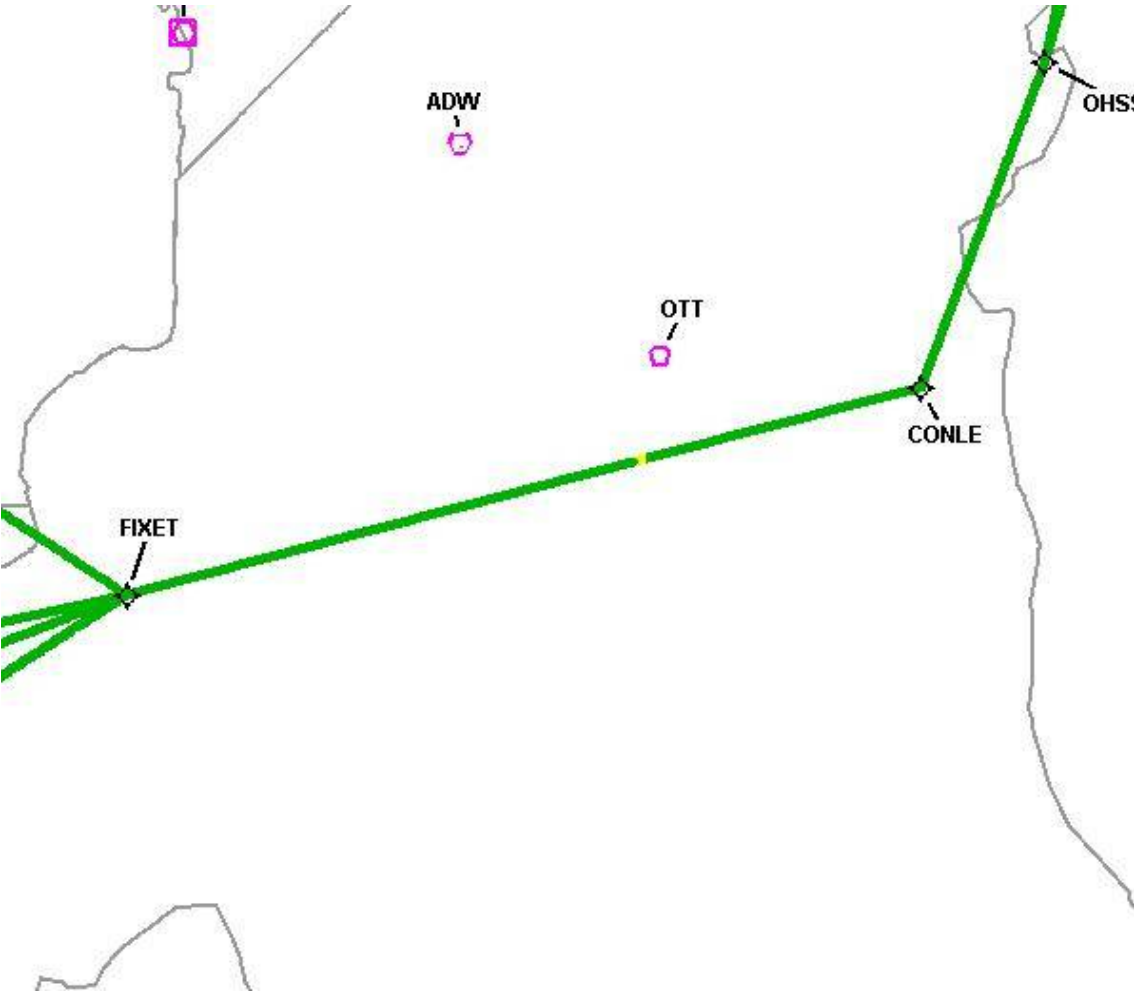


Graphic Depiction 3



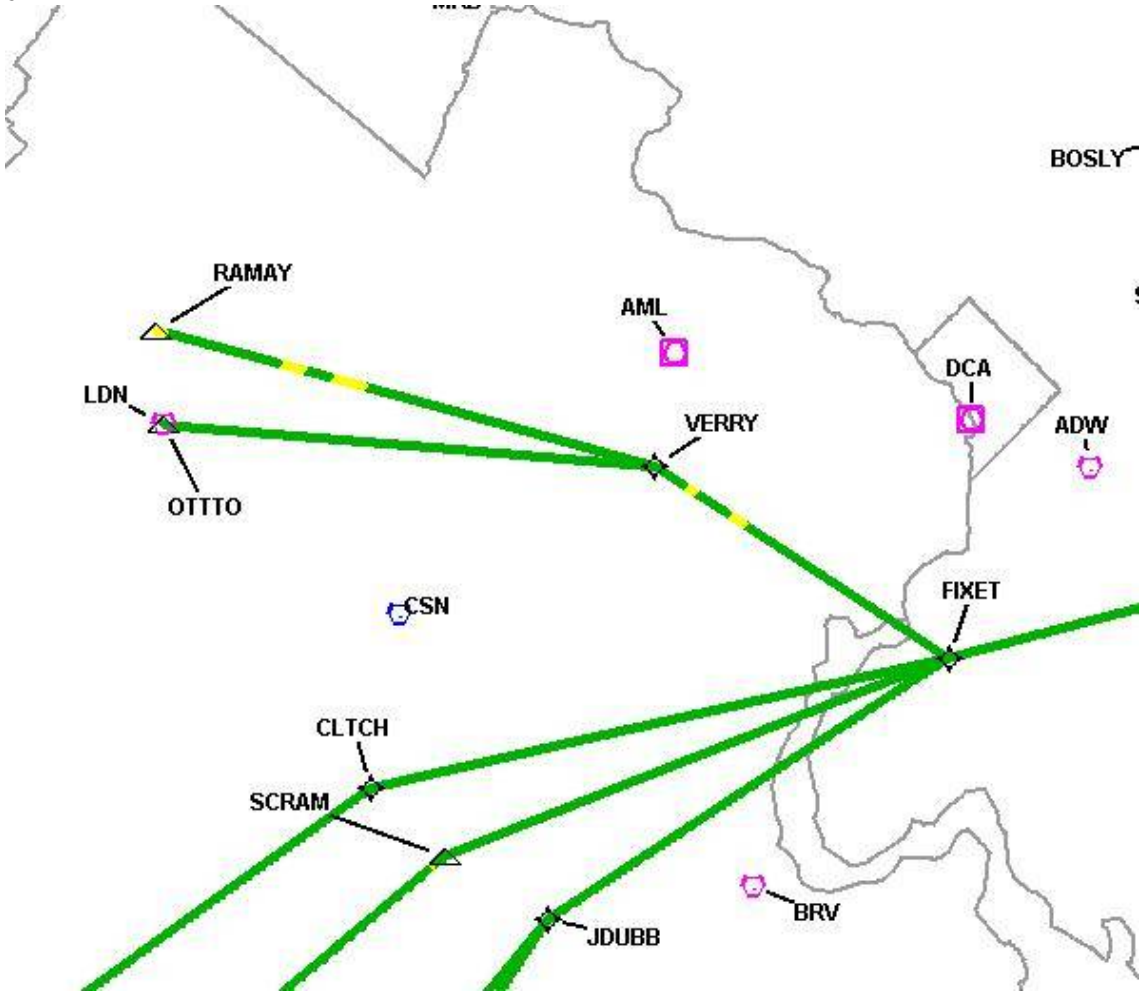
DME DME Assessment Results for FIXET4 path KBWI:RW28:DER_FLASK

Graphic Depiction 4



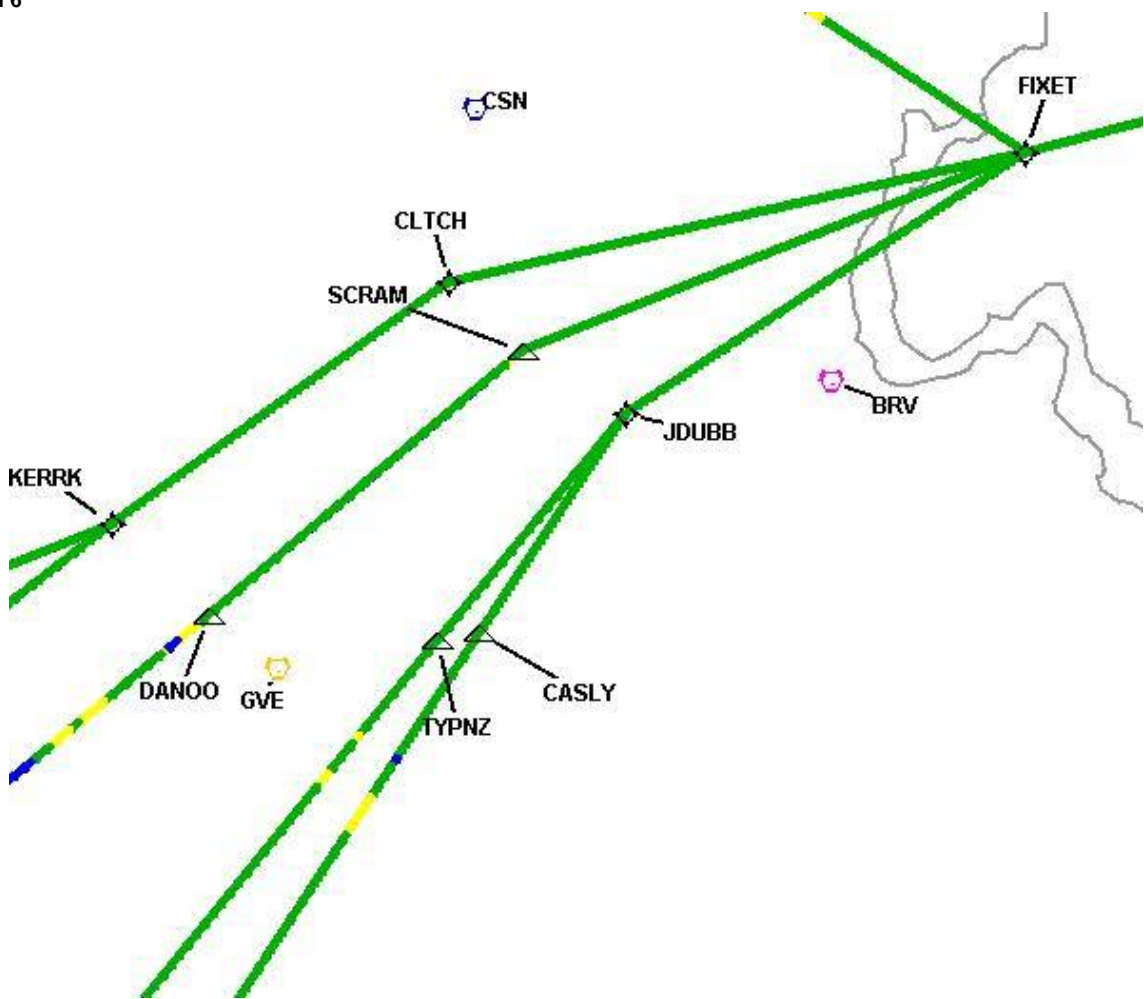
DME DME Assessment Results for FIXET4 path KBWI:RW28:DER_FLASK

Graphic Depiction 5

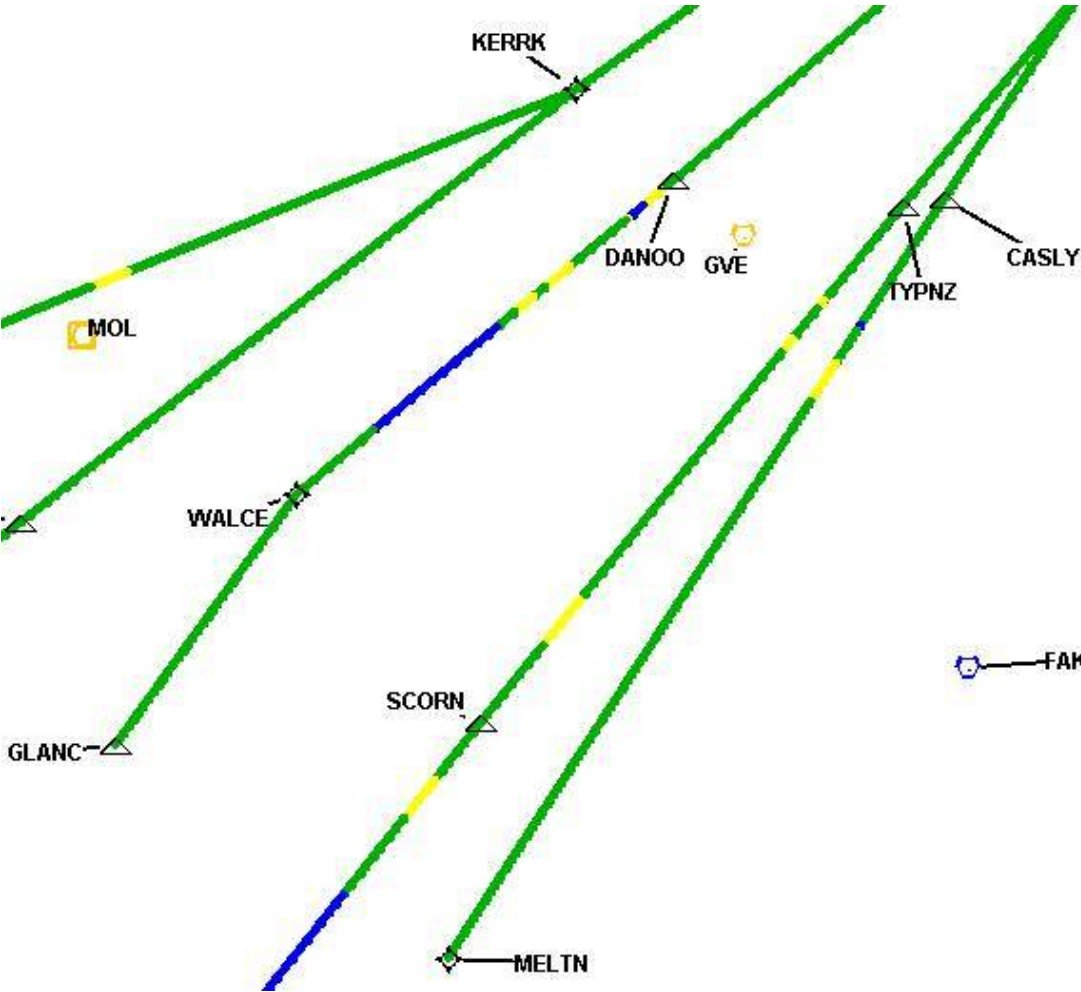


DME DME Assessment Results for FIXET4 path KBWI:RW28:DER_FLASK

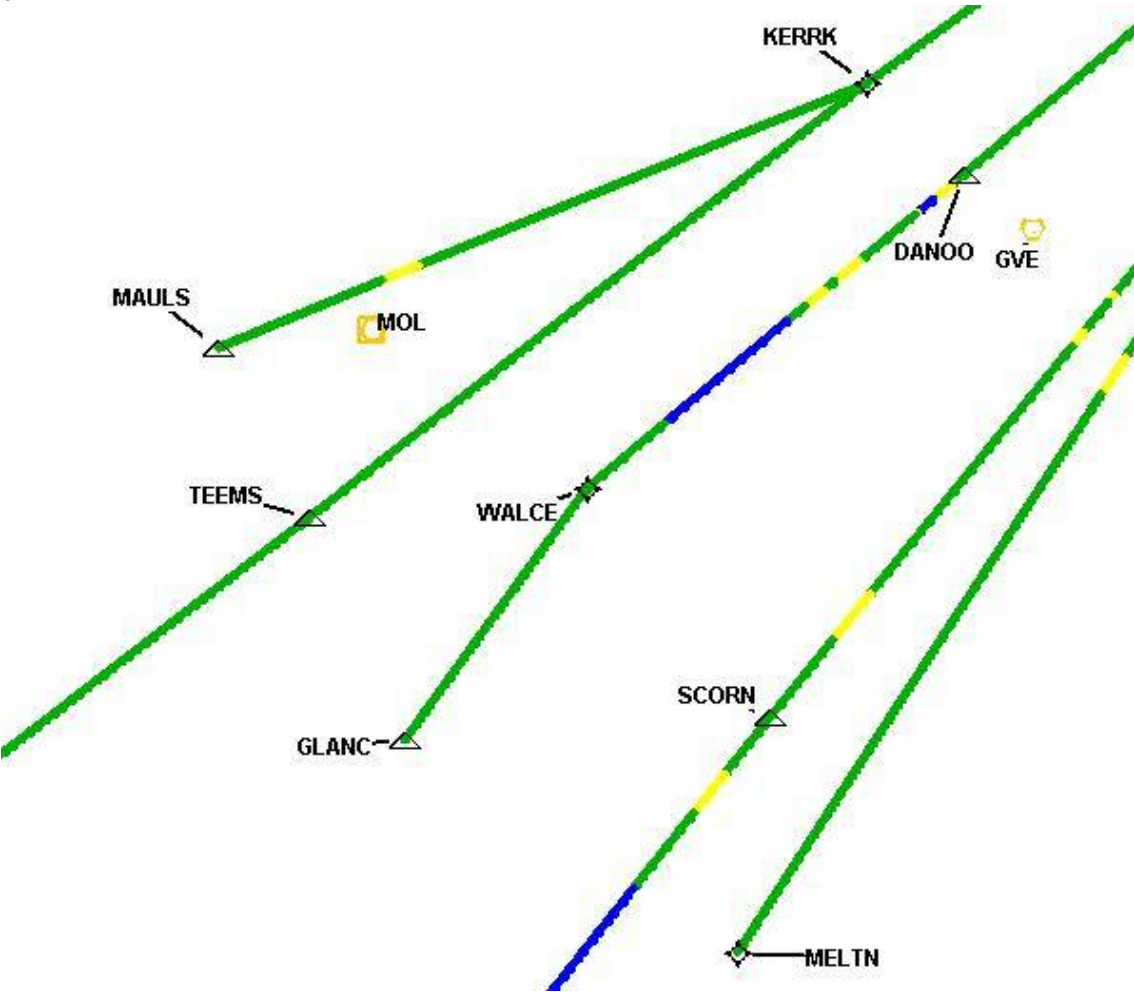
Graphic Depiction 6



Graphic Depiction 7

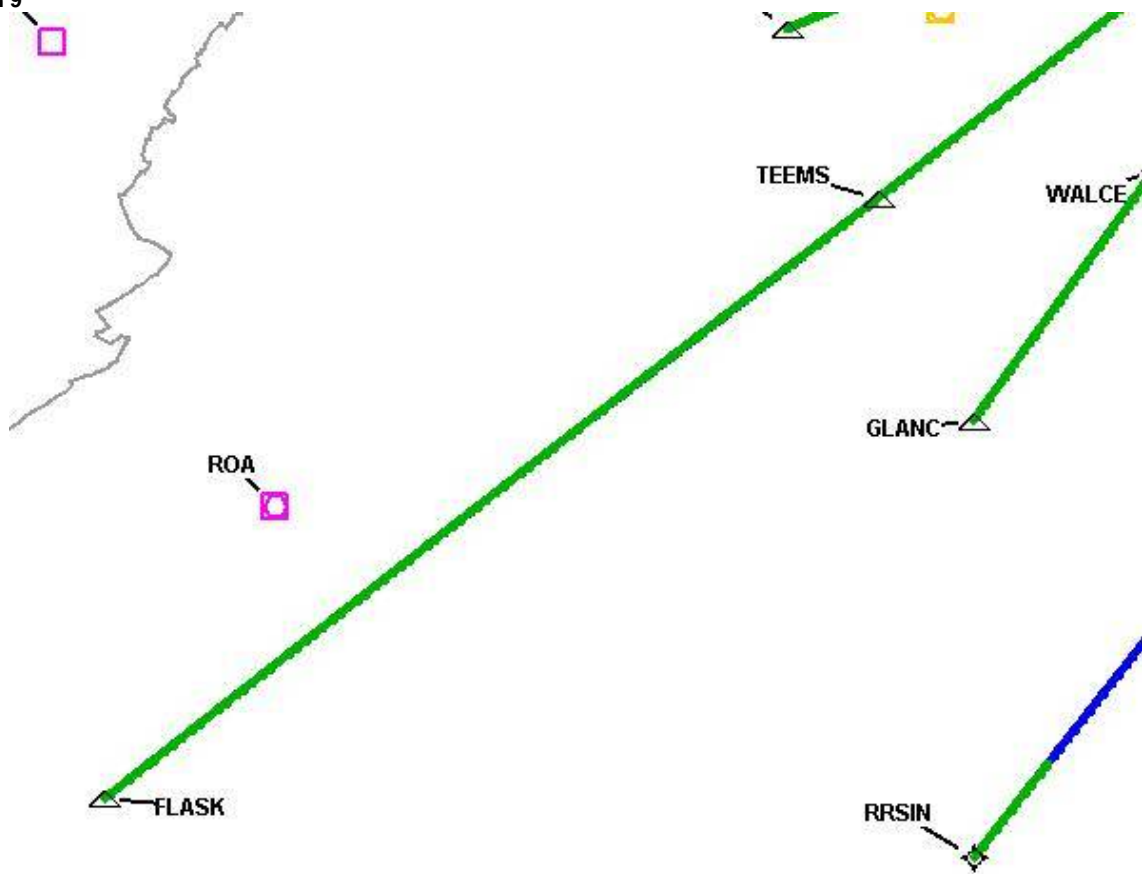


Graphic Depiction 8



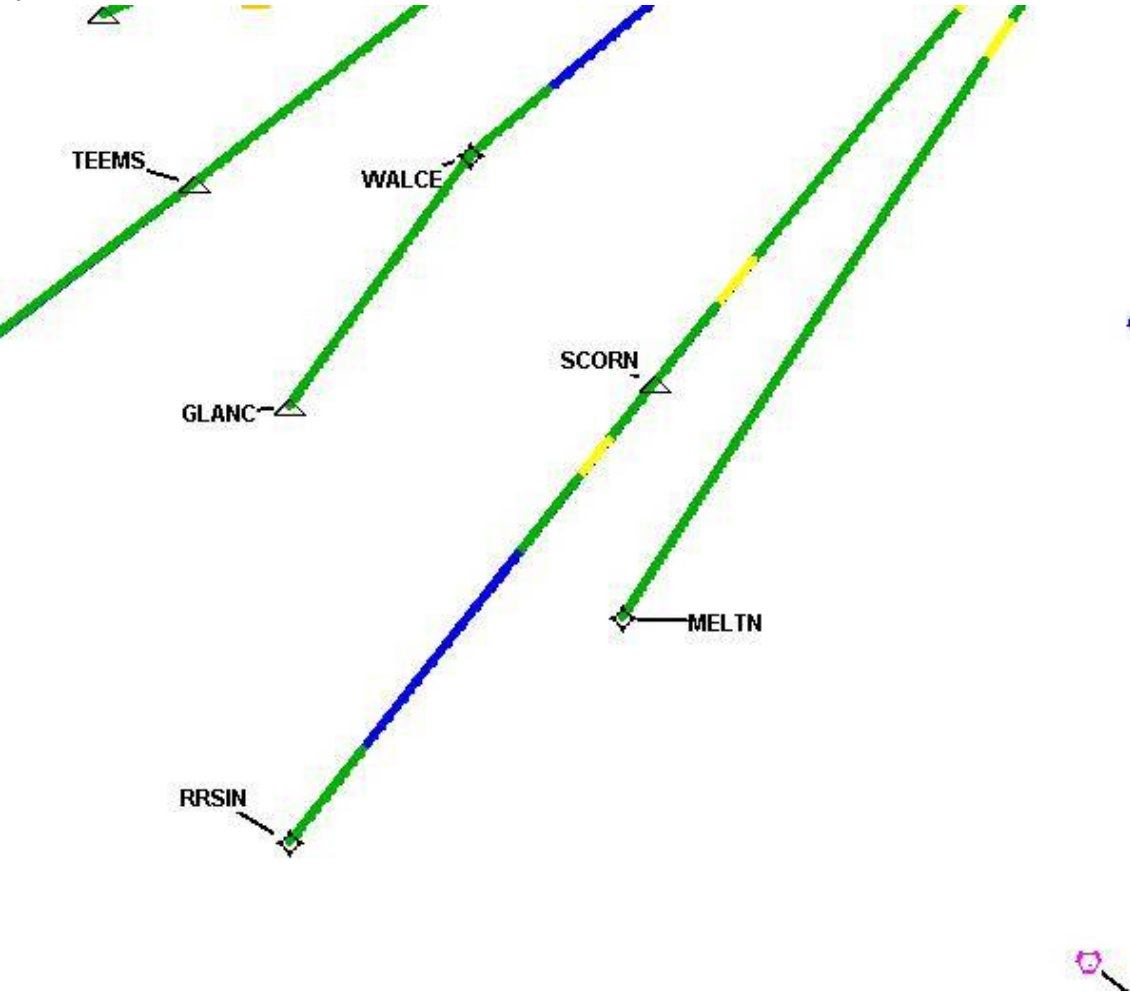
DME DME Assessment Results for FIXET4 path KBWI:RW28:DER_FLASK

Graphic Depiction 9

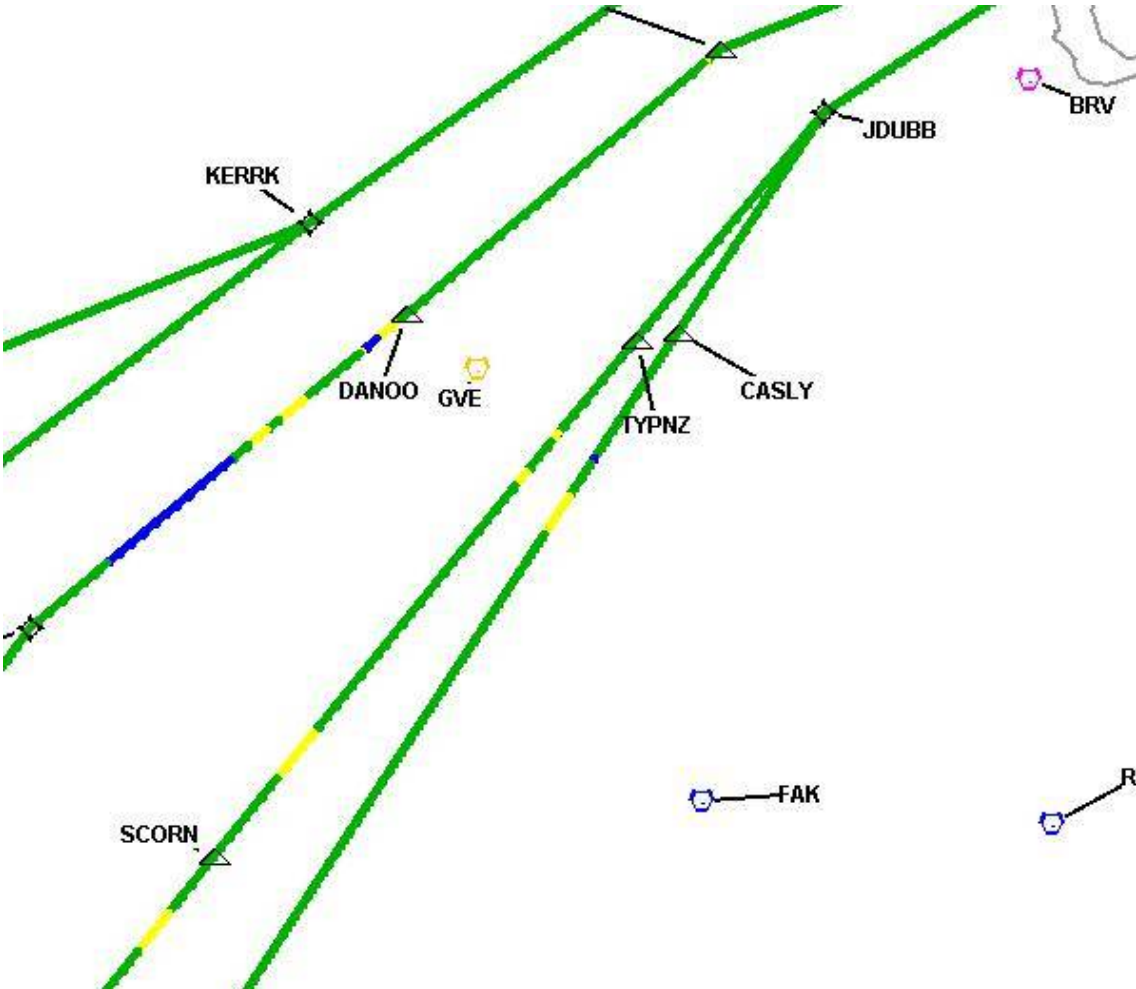


DME DME Assessment Results for FIXET4 path KBWI:RW28:DER_FLASK

Graphic Depiction 10

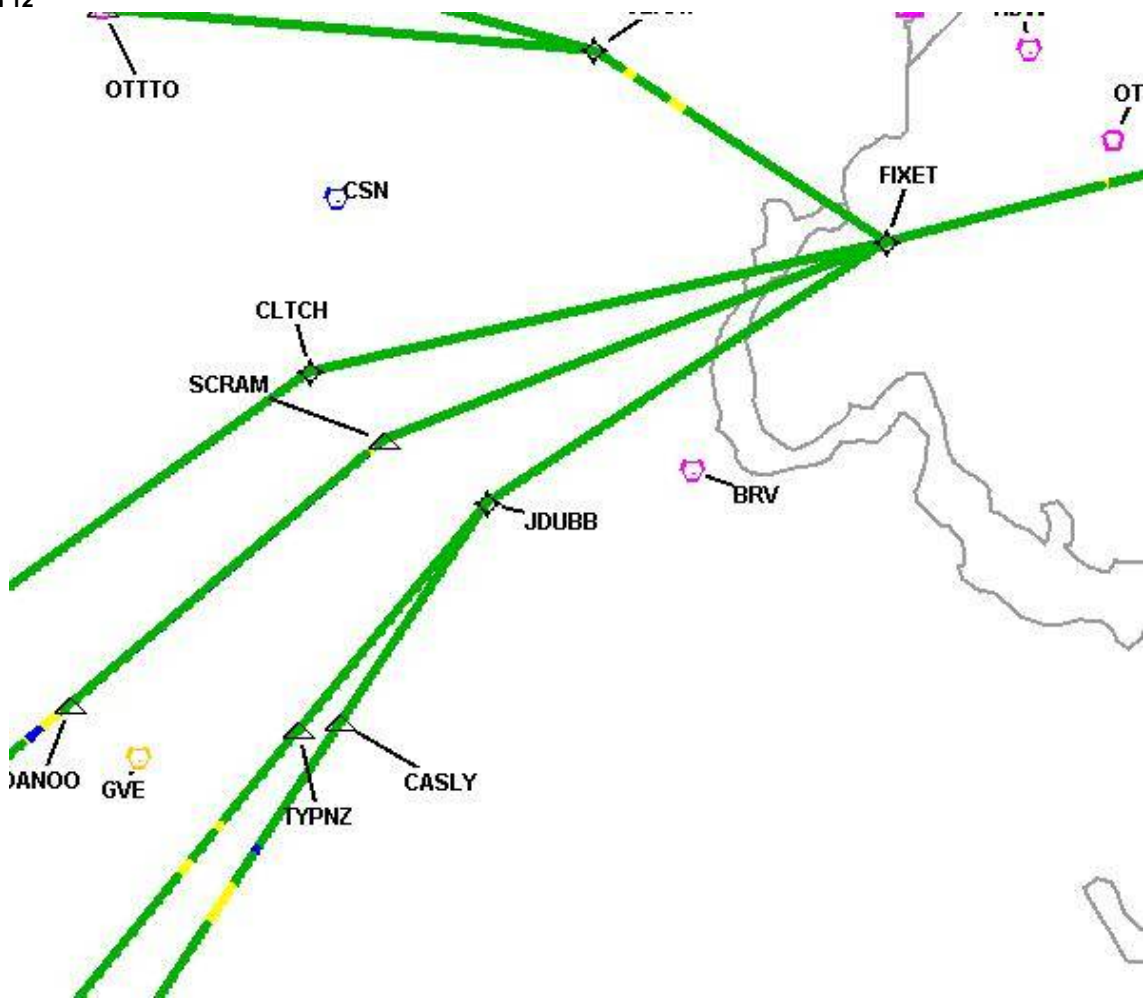


Graphic Depiction 11



DME DME Assessment Results for FIXET4 path KBWI:RW28:DER_FLASK

Graphic Depiction 12



DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI FIXET4 (RNAV) SID DME DME_20231212 MITRE 3DEP 3 arcsec LOW ALT.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] FIXET4 20240207_1916 EST\KBWI-RW33L-DER_SCABZ\KBWI FIXET4 SID RW33L SCABZ 20240207_1916 EST.pdf
Procedure Name:	FIXET4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 19:16 EST
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KBWI:RW33L:DER	WP	N39° 11' 07.3007", W076° 40' 55.1704"	139	VNAV	130	FLY_OVER	TF
SCABZ	WP	N39° 02' 24.5500", W076° 39' 18.3700"	1800	VNAV	230	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 643.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KBWI [IFPA]
Climb Gradient:	500.0 ft/NM up to 643.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	FKN

DME/DME (Continued)											
DMEs Used											
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance	
1	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled	1.1 %	1.5 %	
2	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled	56.9 %	63.6 %	
3	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled	56.9 %	63.6 %	
4	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled			
5	FKN	N36° 42' 51.2443", W077° 00' 44.5488"	9.0 W	40	L	IFPA	NO	Disabled			

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
3.7	DCA	EMI				
3.9						
4.0	DCA	EMI				
10.6	DCA	EMI	BAL			
10.7	DCA	EMI	ADW	BAL		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N39° 11' 09.0021", W076° 40' 56.7471"	N39° 09' 15.7301", W076° 41' 00.7482"	3.7071
2	N39° 09' 06.2648", W076° 40' 58.3876"	N39° 08' 59.1657", W076° 40' 56.6173"	0.1204

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KBWI:RW33L:DER	SCABZ	EMI, DCA, ADW, BAL	

DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

User Data Files

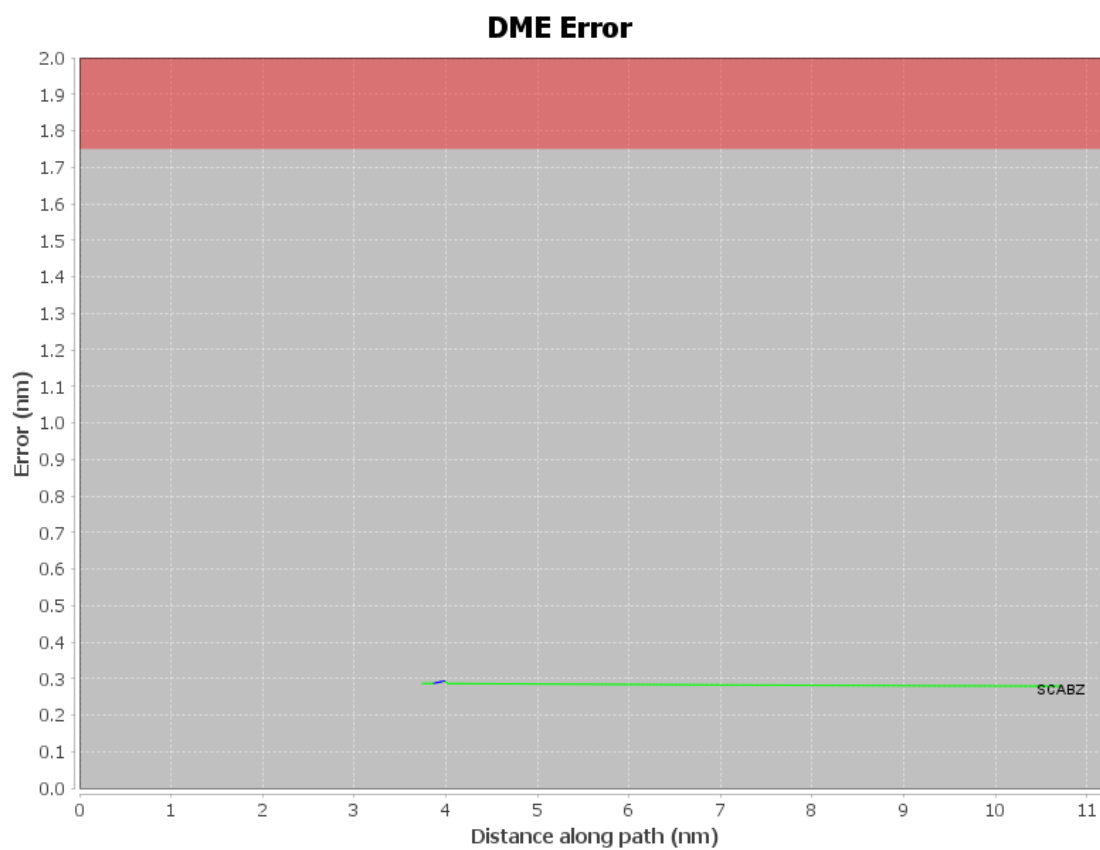
File Name

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User DMEs

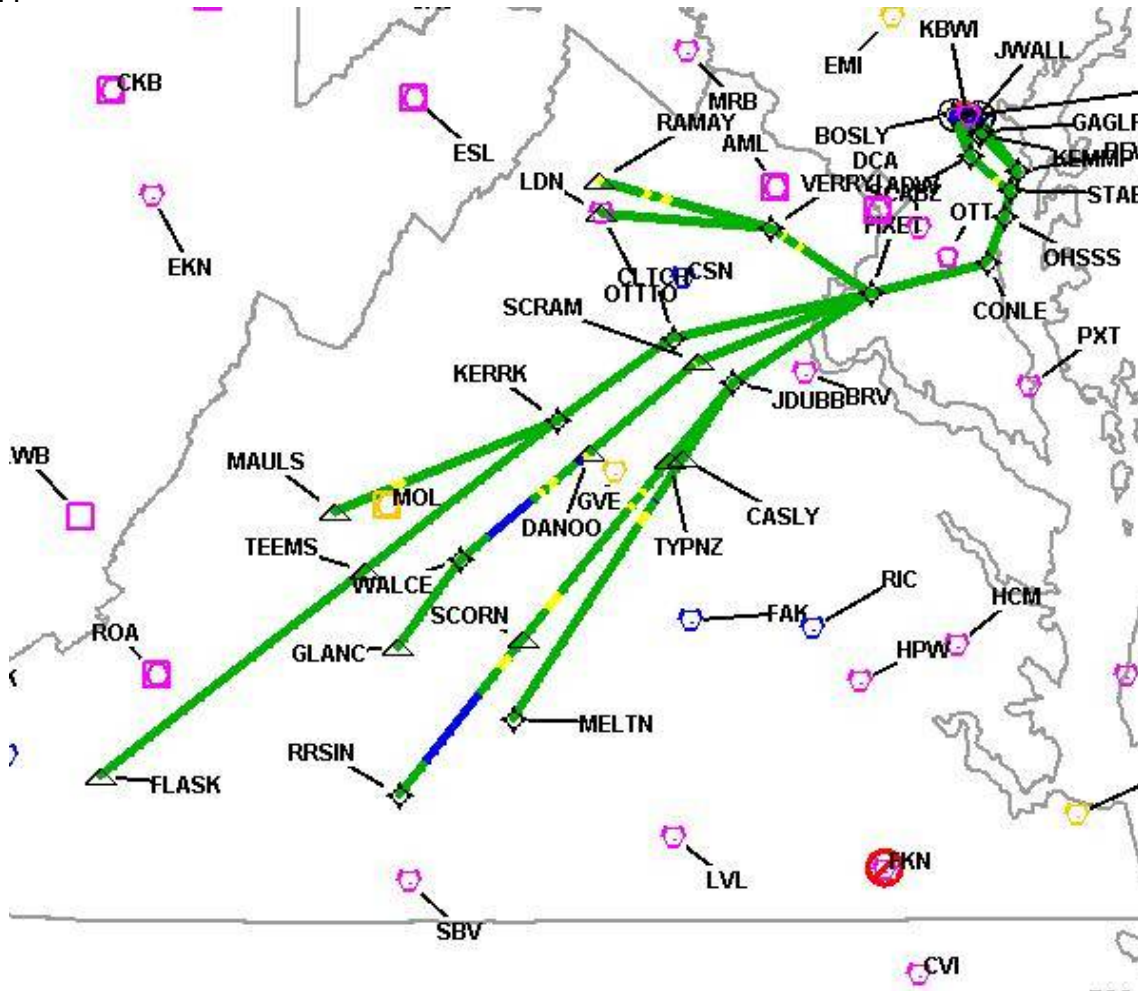
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GVE FAA 698194-12 GVE [IFPA]	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	GVE FAA 698194-12	
ESV:		Bearing [True]: 173.0° to 218.0° Bearing [Mag]: 179.0° to 224.0°				Arc Distance: Out to 58.0 NM Altitude: 8000.0 to 16000.0 ft		
2	AML FAA 732650-41 AML [IFPA]	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	295.7	113.5	AML FAA 732650-41	
ESV:		Bearing [True]: 172.0° to 242.0° Bearing [Mag]: 180.0° to 250.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 20000.0 ft		
3	CSN FAA 682017-12 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-12	
ESV:		Bearing [True]: 183.0° to 215.0° Bearing [Mag]: 189.0° to 221.0°				Arc Distance: Out to 96.0 NM Altitude: 7500.0 to 16000.0 ft		
4	RIC FAA 704161-21 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-21	
ESV:		Bearing [True]: 285.0° to 9.0° Bearing [Mag]: 294.0° to 18.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 16000.0 ft		
5	FAK FAA 698146-14 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-14	
ESV:		Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
6	HPW FAA 698117-16 HPW [IFPA]	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	70	114.35	HPW FAA 698117-16	
ESV:		Bearing [True]: 259.0° to 284.0° Bearing [Mag]: 265.0° to 290.0°				Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 18000.0 ft		

DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ



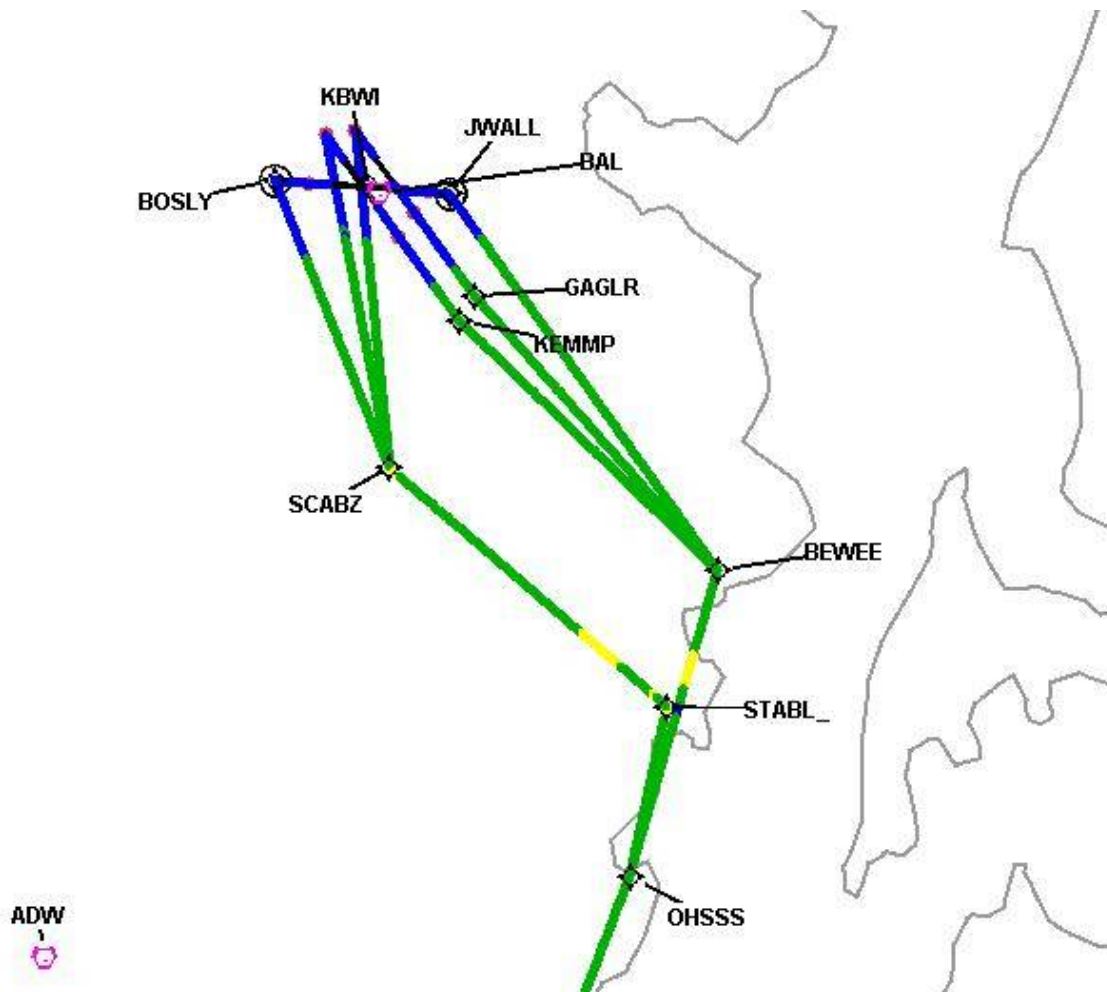
DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

Graphic Depiction 1



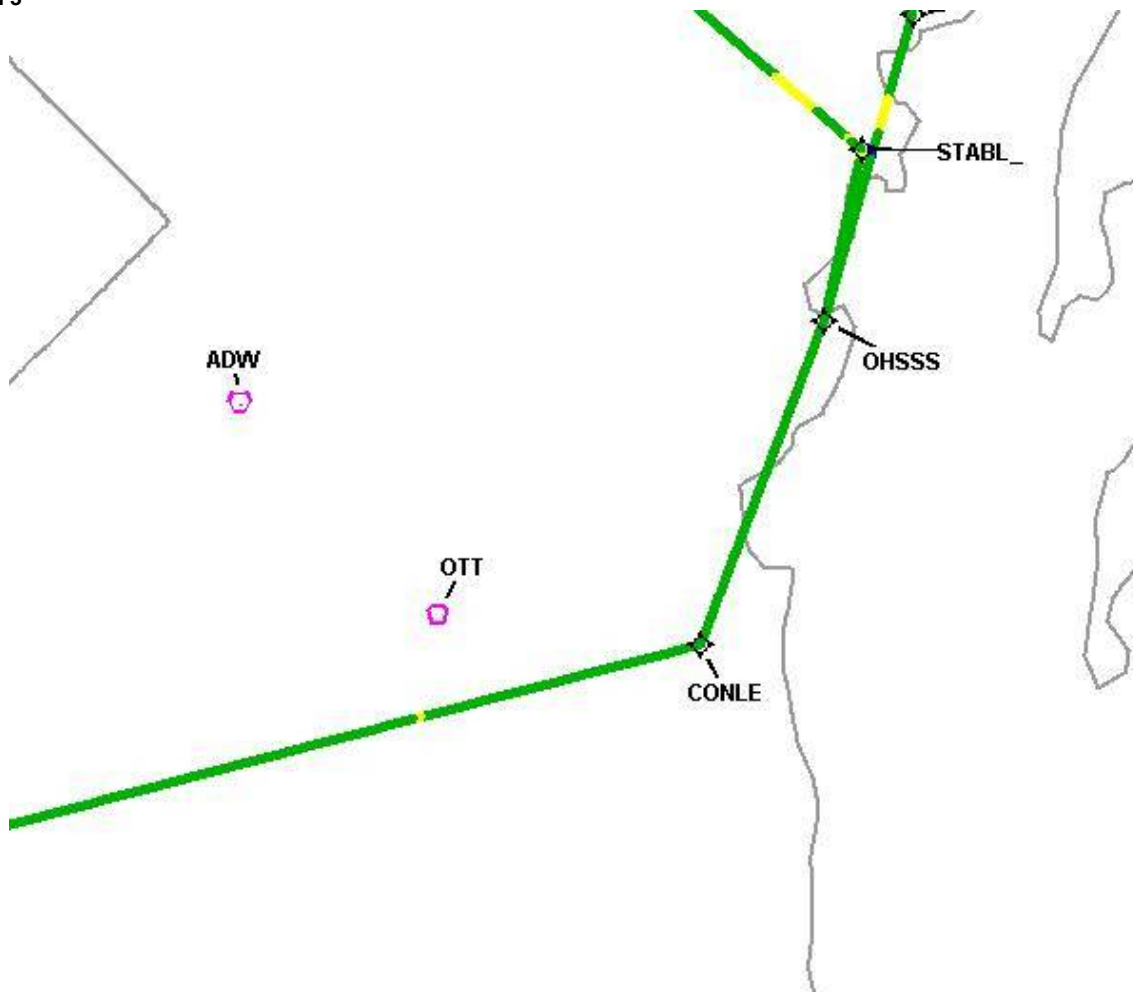
DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

Graphic Depiction 2



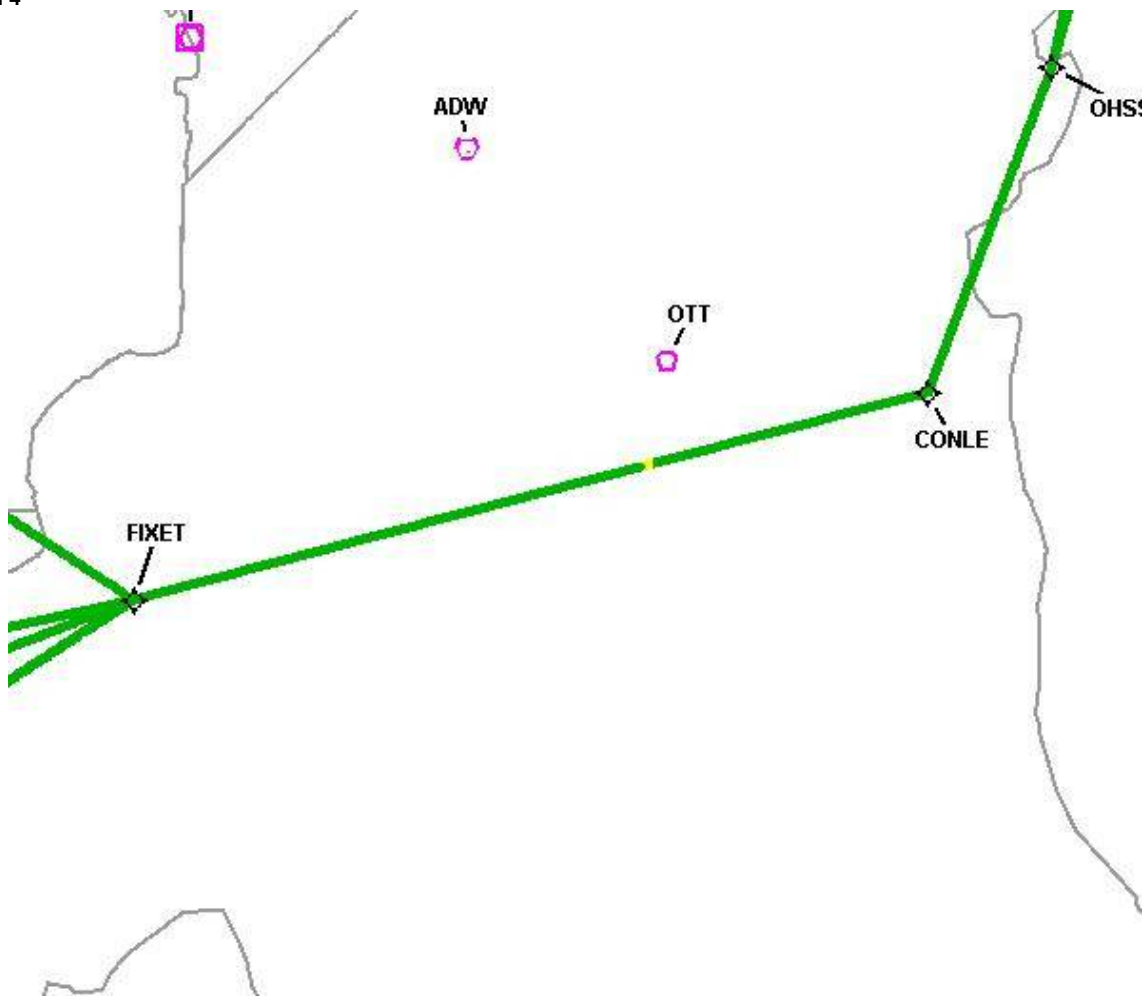
DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

Graphic Depiction 3



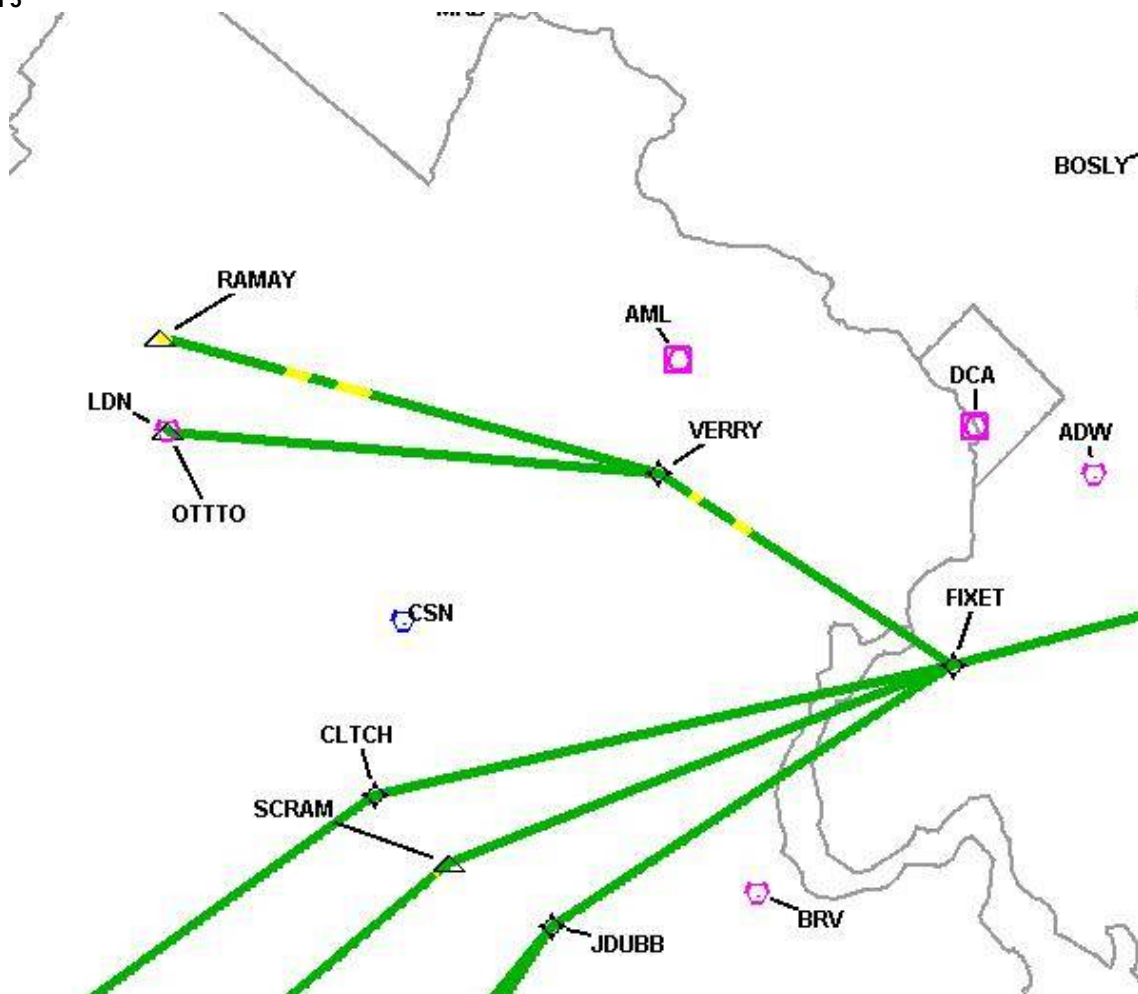
DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

Graphic Depiction 4



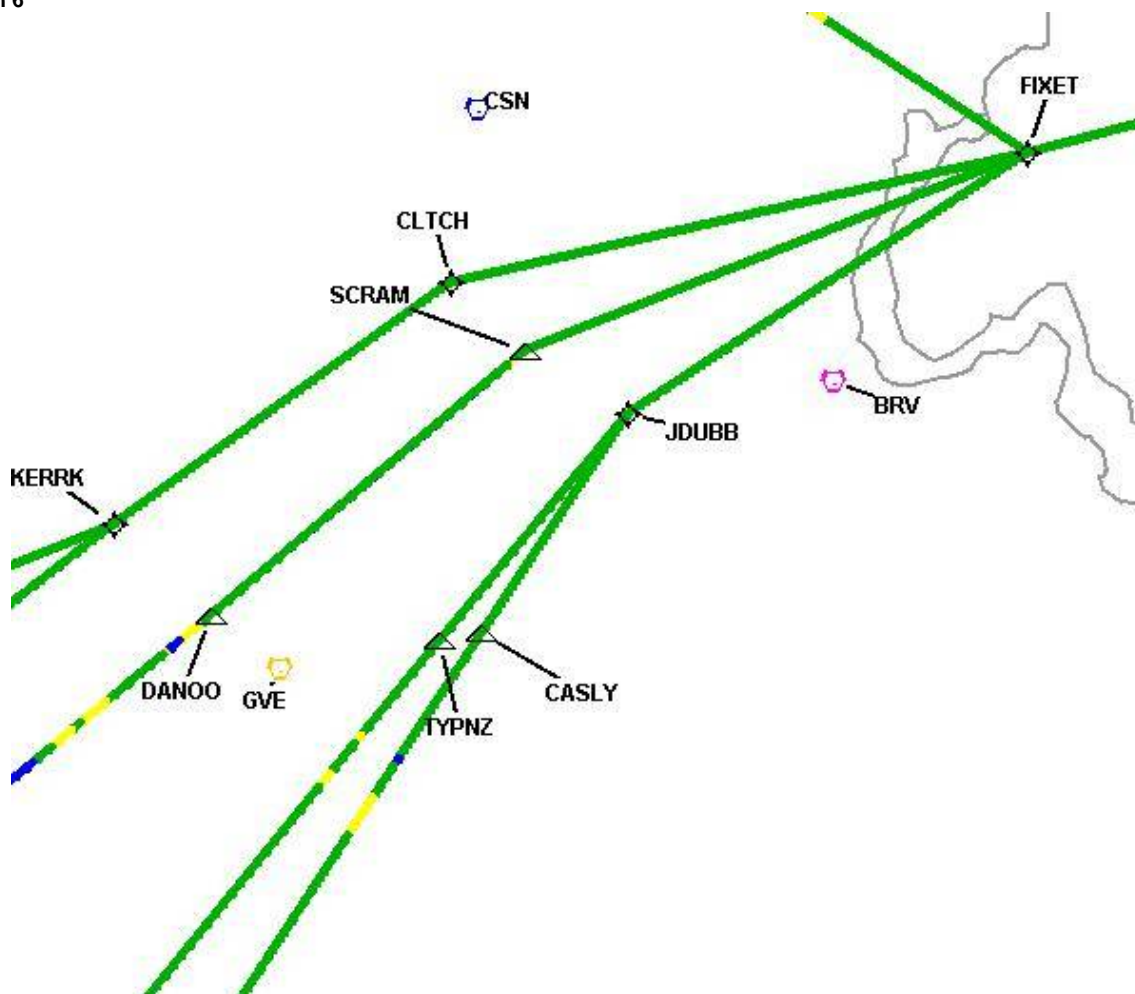
DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

Graphic Depiction 5



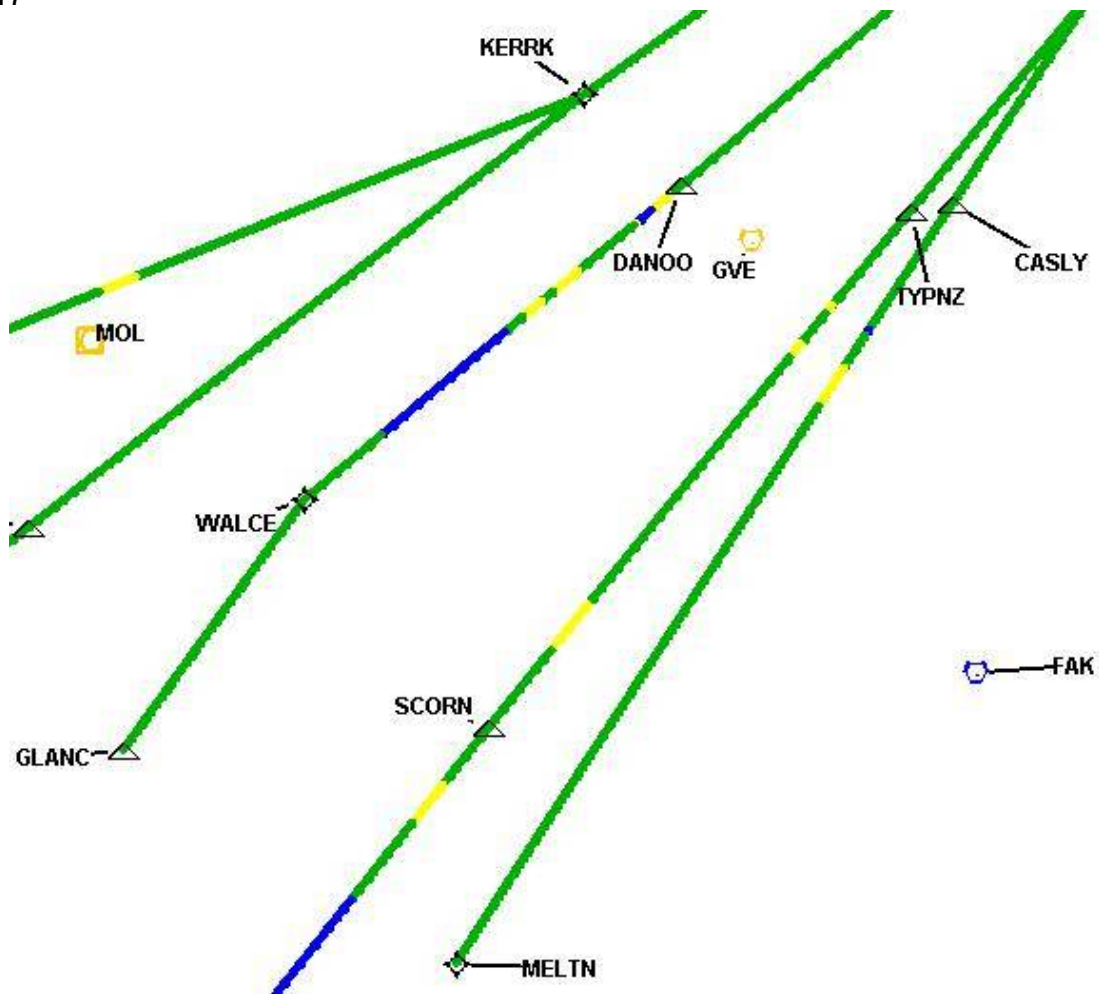
DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

Graphic Depiction 6



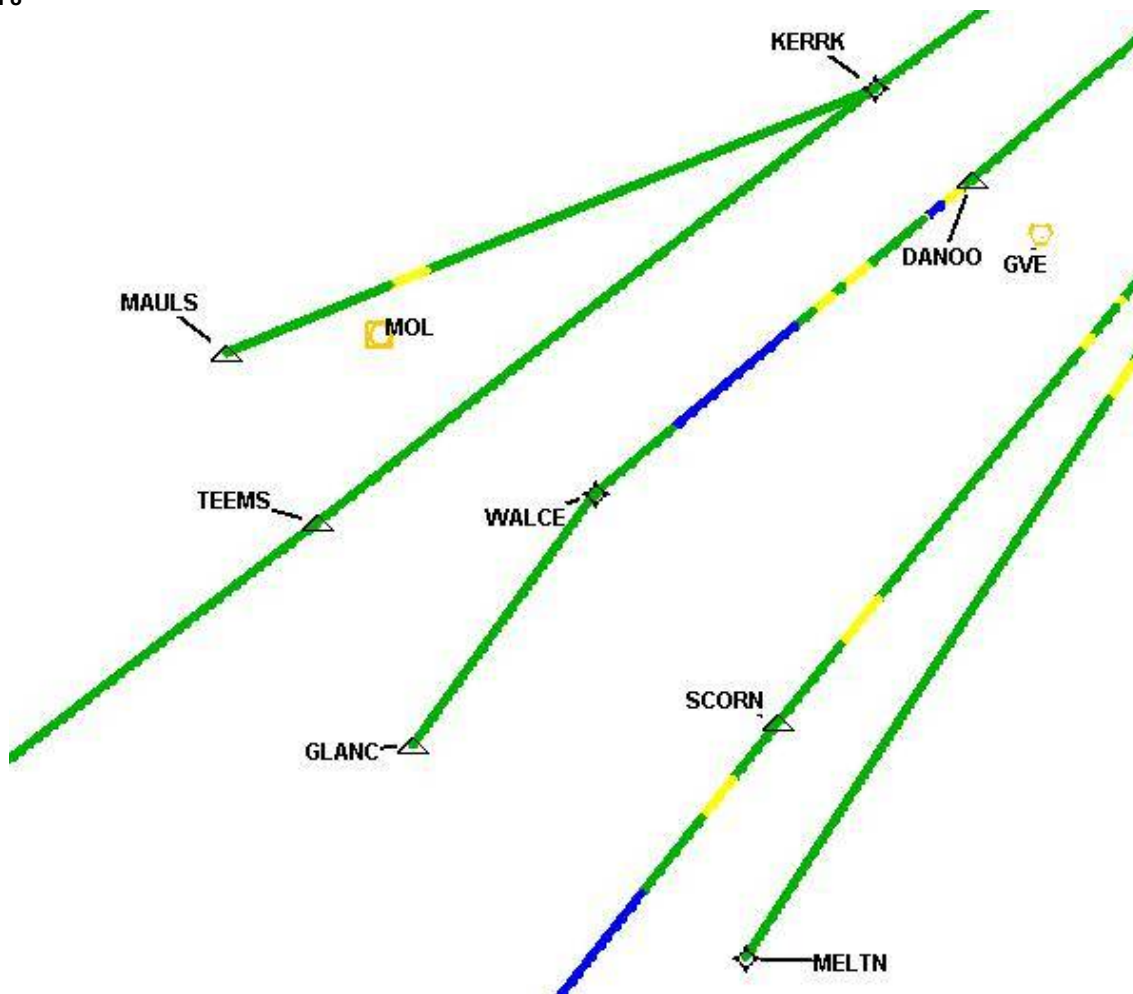
DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

Graphic Depiction 7



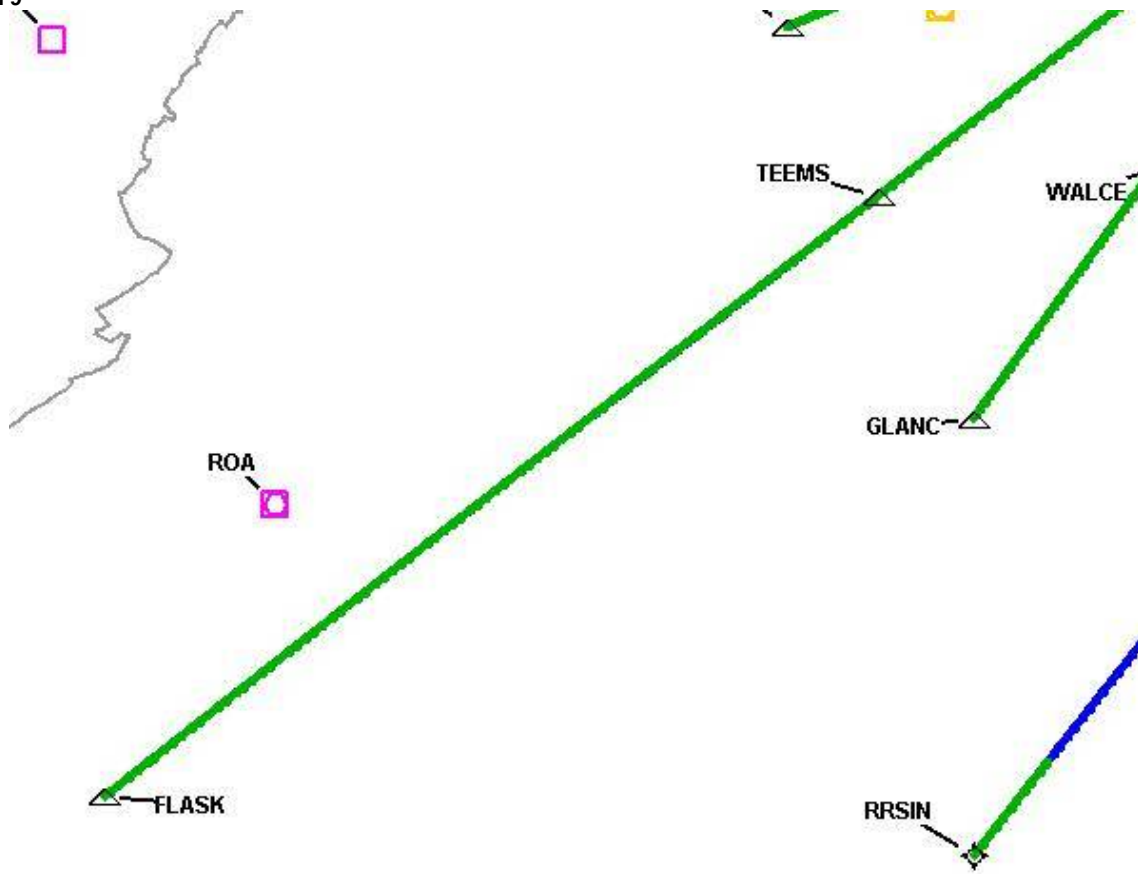
DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

Graphic Depiction 8



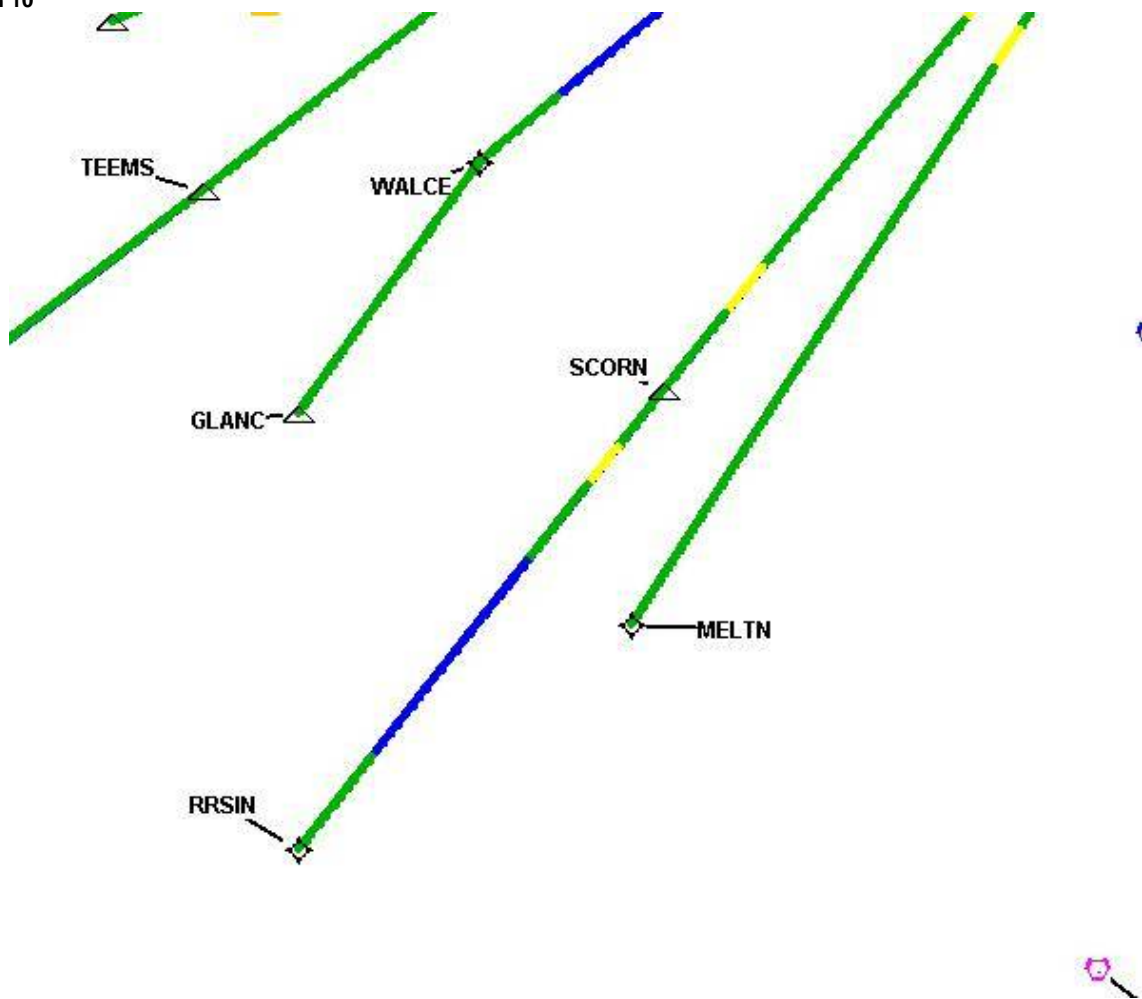
DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

Graphic Depiction 9



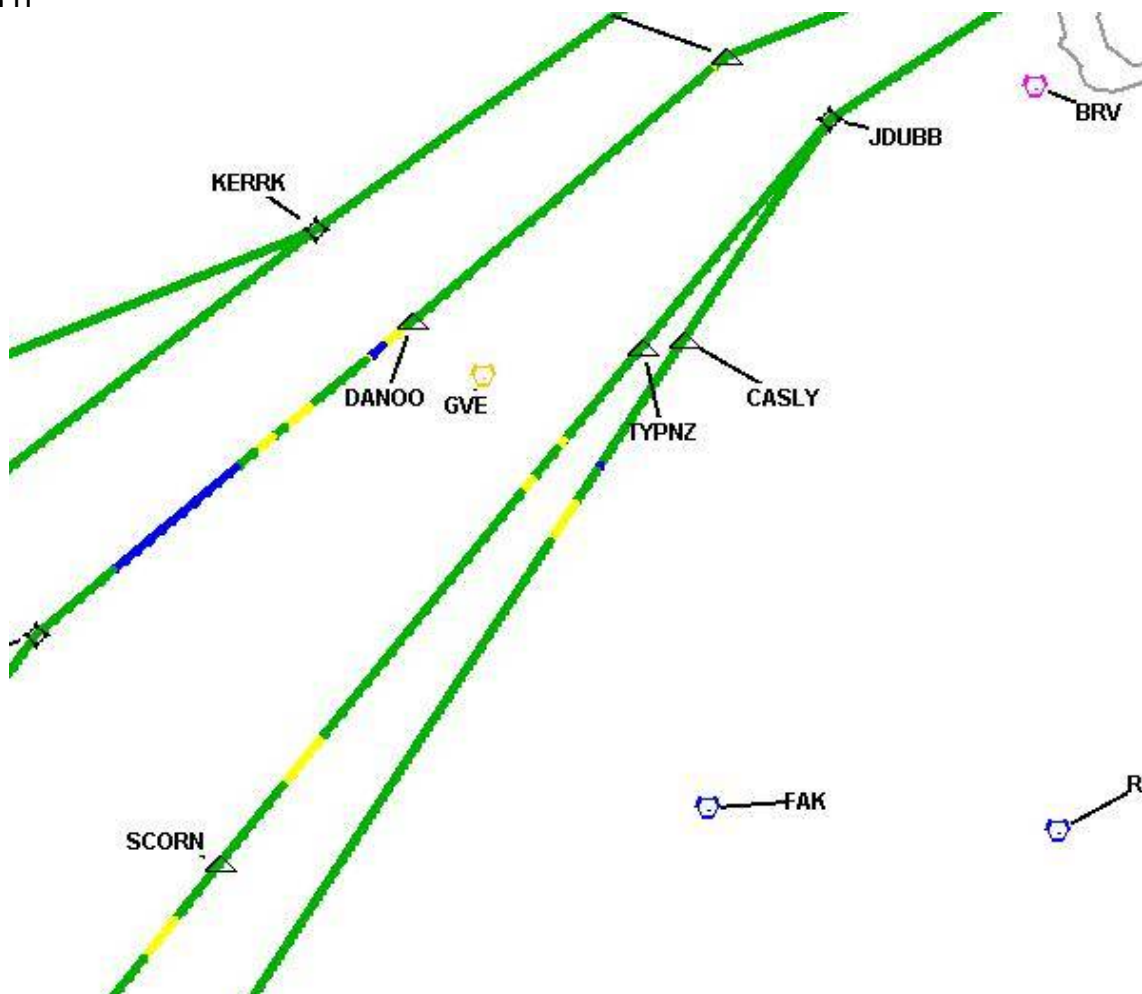
DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

Graphic Depiction 10



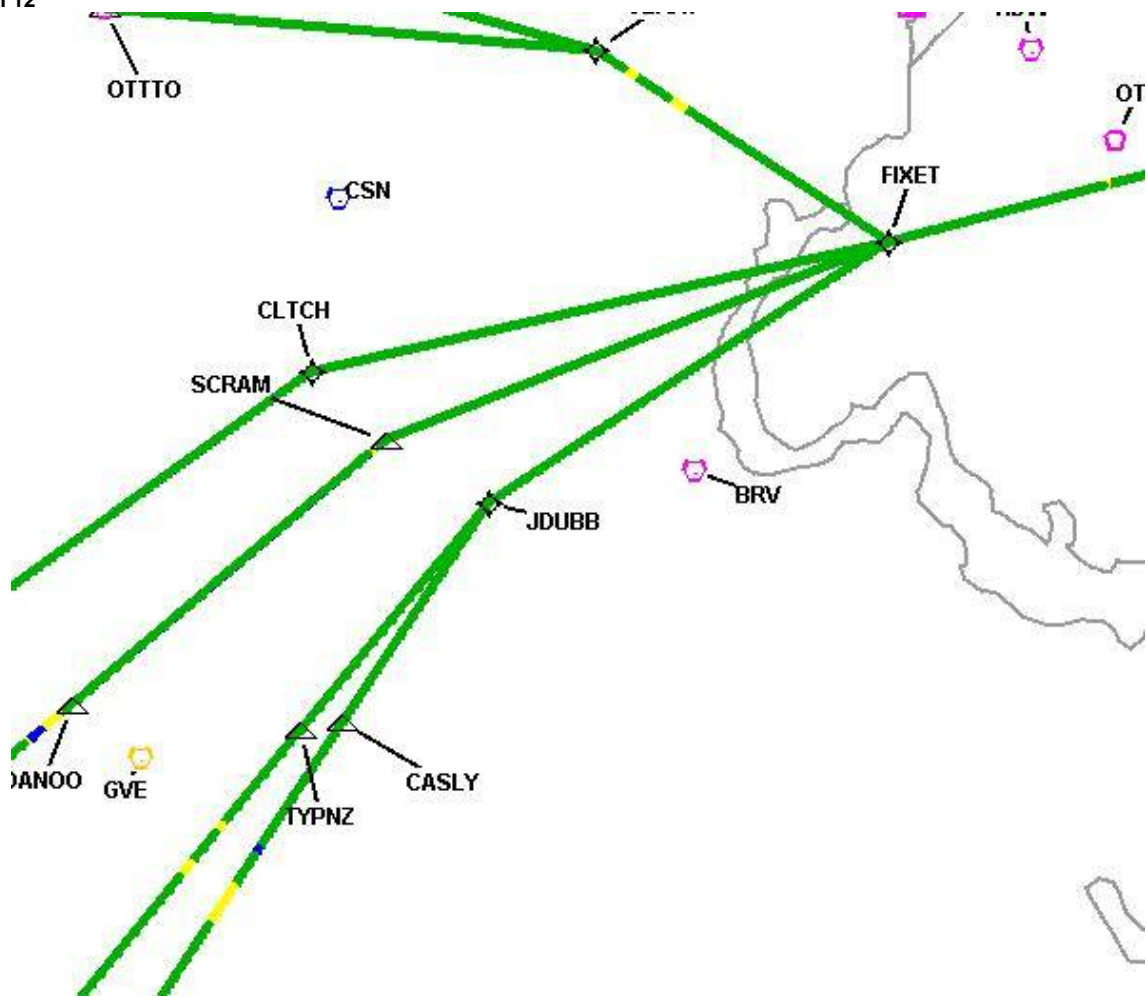
DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

Graphic Depiction 11



DME DME Assessment Results for FIXET4 path KBWI:RW33L:DER_SCABZ

Graphic Depiction 12



DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI FIXET4 (RNAV) SID DME DME_20231212 MITRE 3DEP 3 arcsec LOW ALT.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] FIXET4 20240207_1916 EST\KBWI-RW33R-DER_SCABZ\KBWI FIXET4 SID RW33R SCABZ 20240207_1916 EST.pdf
Procedure Name:	FIXET4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 19:16 EST
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KBWI:RW33R:DER	WP	N39° 11' 14.5431", W076° 39' 48.7441"	141.4	VNAV	130	FLY_OVER	TF
SCABZ	WP	N39° 02' 24.5500", W076° 39' 18.3700"	1800	VNAV	230	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 643.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KBWI [IFPA]
Climb Gradient:	500.0 ft/NM up to 643.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	FKN

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled	54.3 %	61.3 %
2	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled	54.3 %	61.3 %
3	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled	0.4 %	0.5 %
4	FKN	N36° 42' 51.2443", W077° 00' 44.5488"	9.0 W	40	L	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
4.1	DCA	EMI				
10.6	DCA	EMI	ADW			

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N39° 11' 16.2975", W076° 39' 50.3684"	N39° 08' 56.6160", W076° 40' 09.6911"	4.1027

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KBWI:RW33R:DER	SCABZ	EMI, DCA, ADW	

DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

User Data Files

File Name

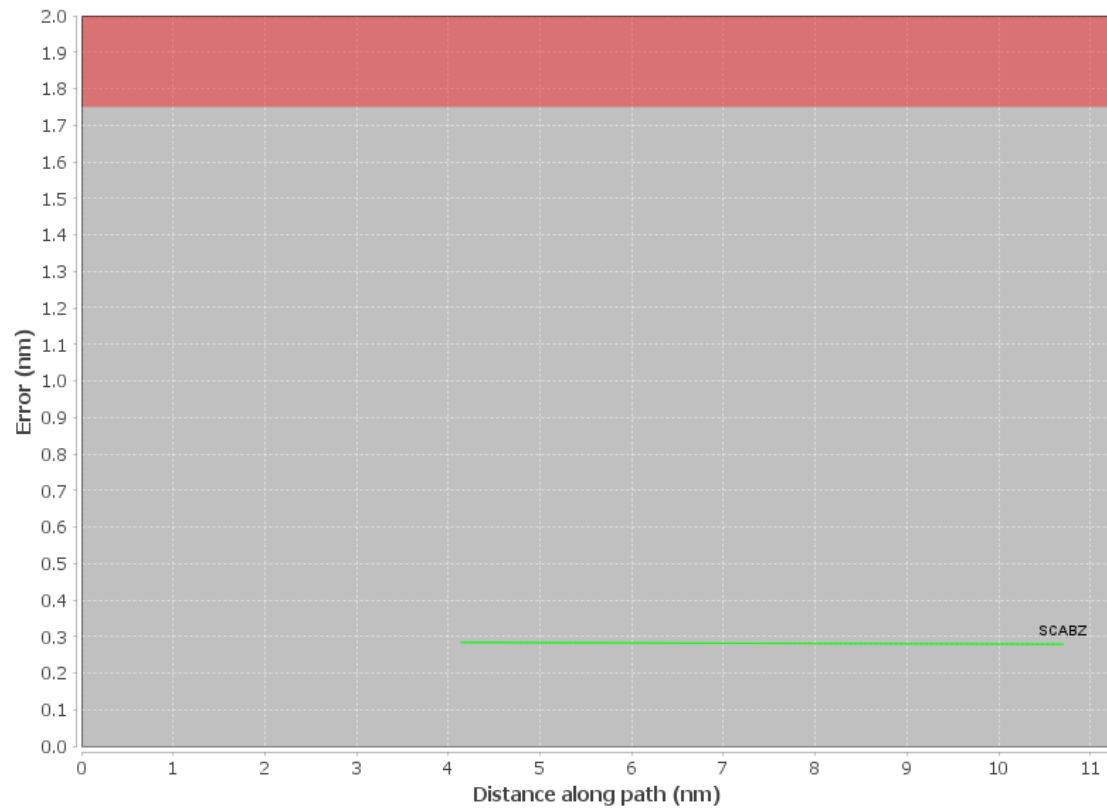
None

User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GVE FAA 698194-12 GVE [IFPA]	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	GVE FAA 698194-12	
ESV:		Bearing [True]: 173.0° to 218.0° Bearing [Mag]: 179.0° to 224.0°				Arc Distance: Out to 58.0 NM Altitude: 8000.0 to 16000.0 ft		
2	AML FAA 732650-41 AML [IFPA]	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	295.7	113.5	AML FAA 732650-41	
ESV:		Bearing [True]: 172.0° to 242.0° Bearing [Mag]: 180.0° to 250.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 20000.0 ft		
3	CSN FAA 682017-12 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-12	
ESV:		Bearing [True]: 183.0° to 215.0° Bearing [Mag]: 189.0° to 221.0°				Arc Distance: Out to 96.0 NM Altitude: 7500.0 to 16000.0 ft		
4	RIC FAA 704161-21 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-21	
ESV:		Bearing [True]: 285.0° to 9.0° Bearing [Mag]: 294.0° to 18.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 16000.0 ft		
5	FAK FAA 698146-14 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-14	
ESV:		Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
6	HPW FAA 698117-16 HPW [IFPA]	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	70	114.35	HPW FAA 698117-16	
ESV:		Bearing [True]: 259.0° to 284.0° Bearing [Mag]: 265.0° to 290.0°				Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 18000.0 ft		

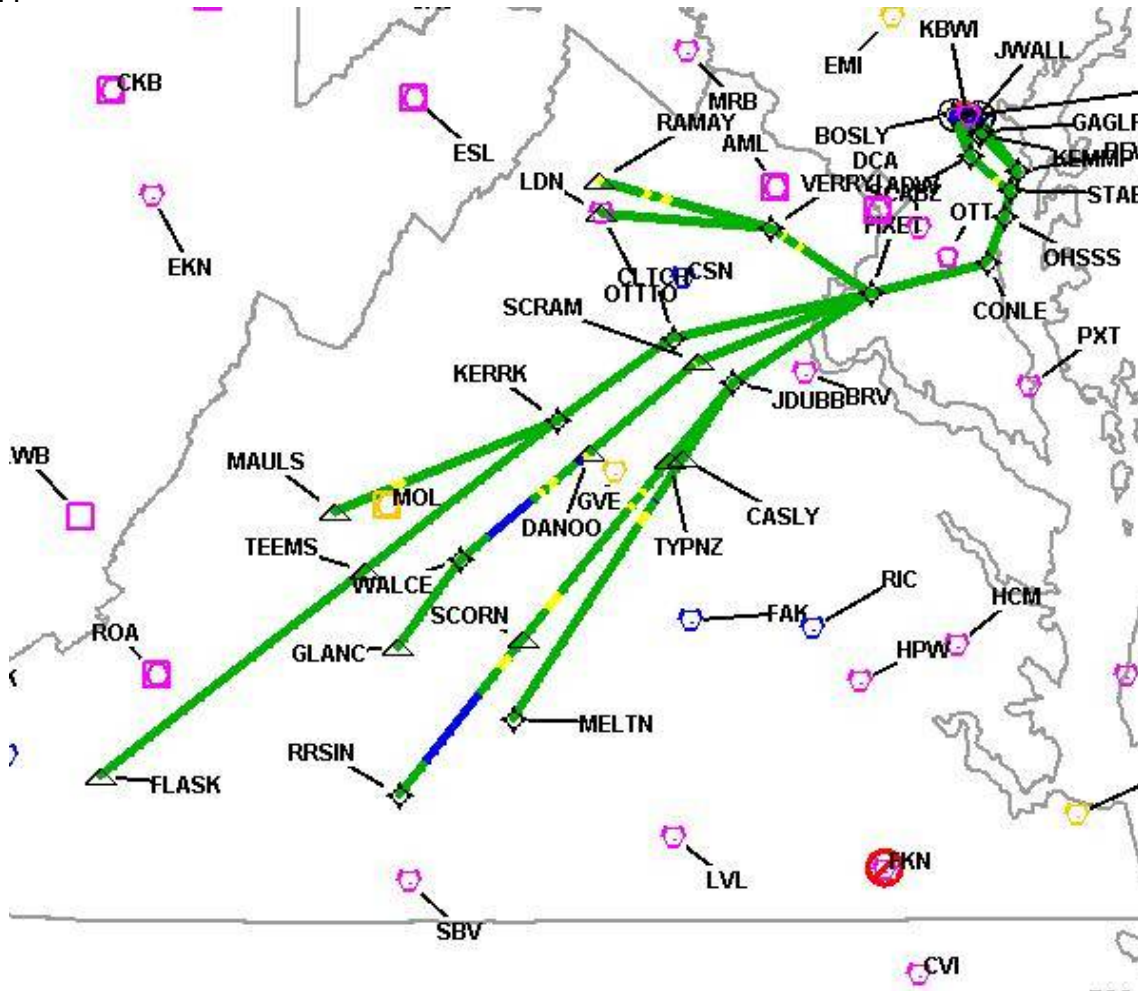
DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

DME Error



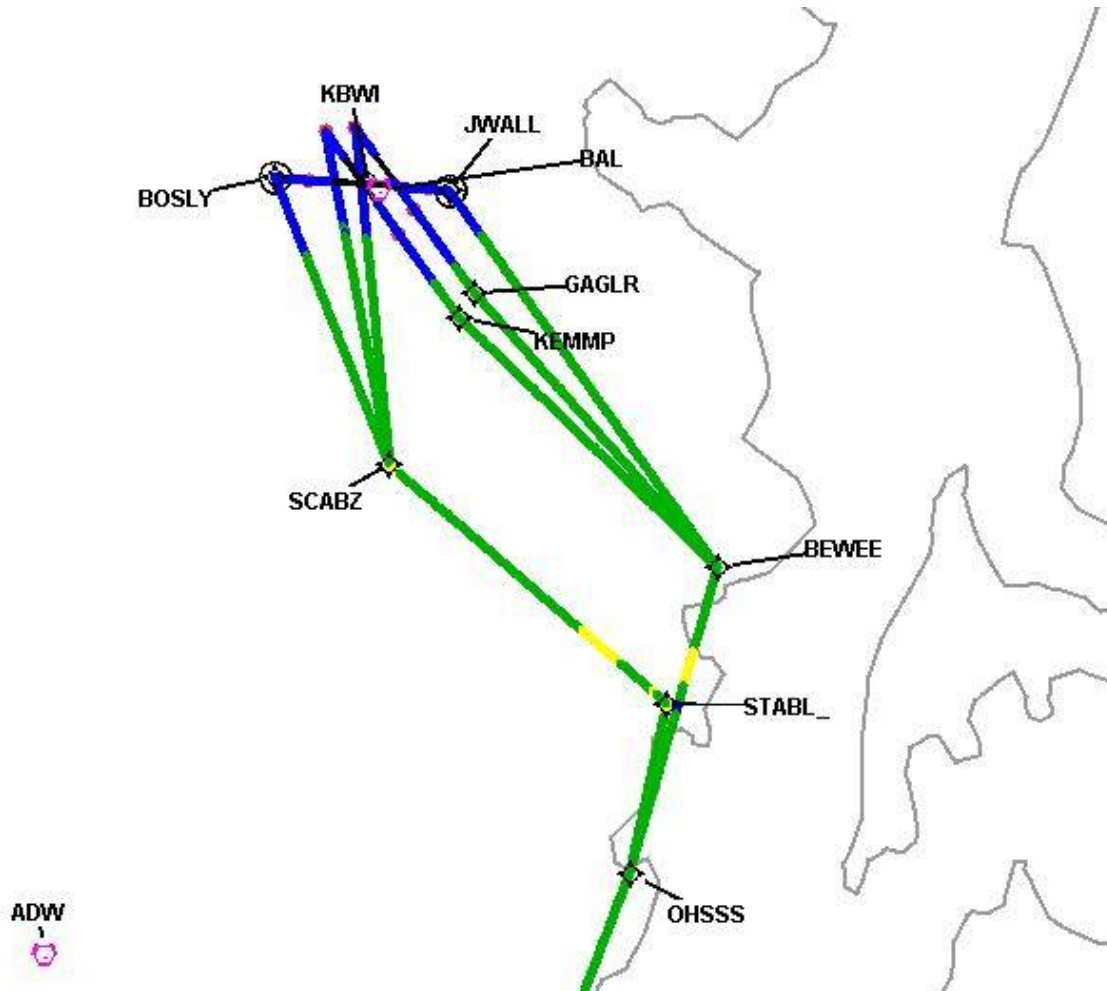
DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

Graphic Depiction 1



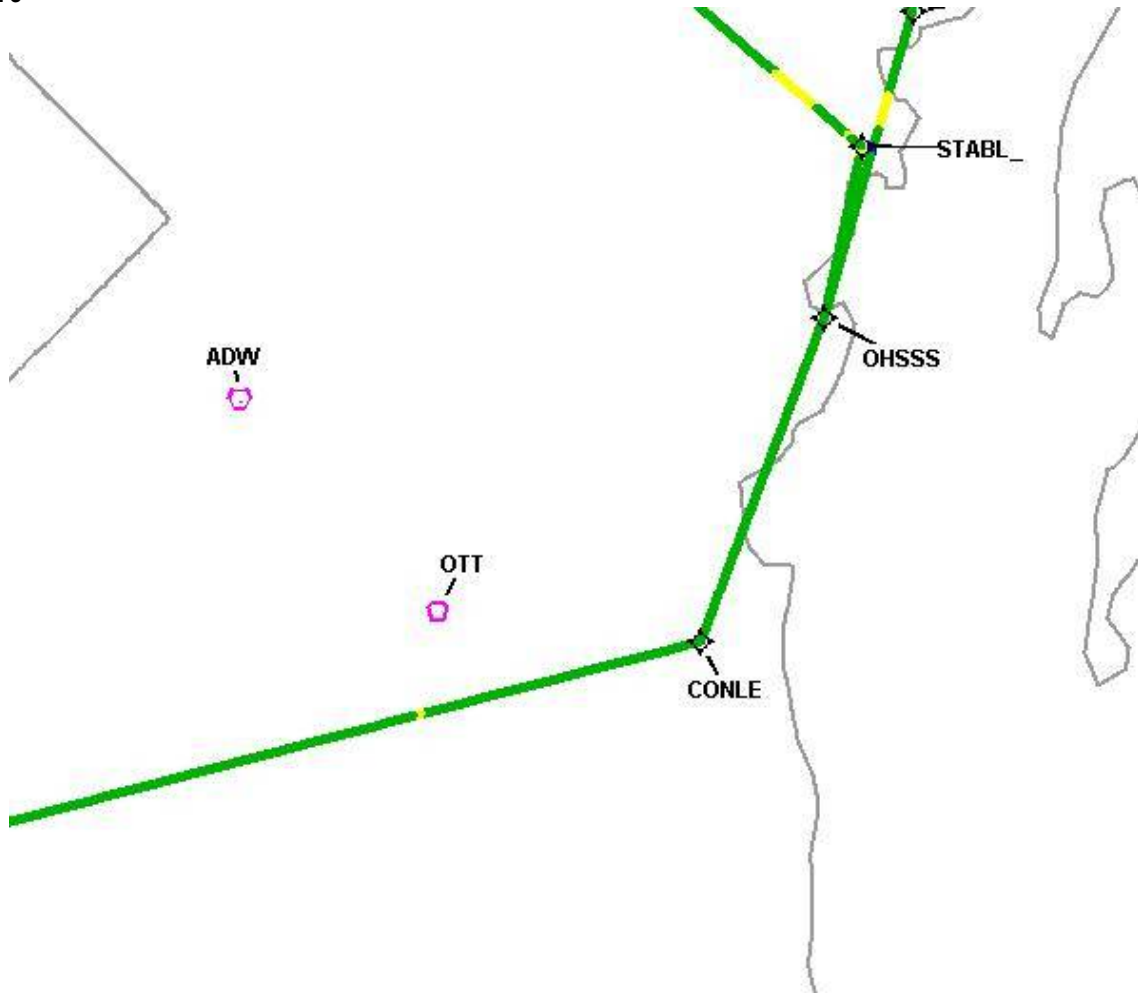
DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

Graphic Depiction 2



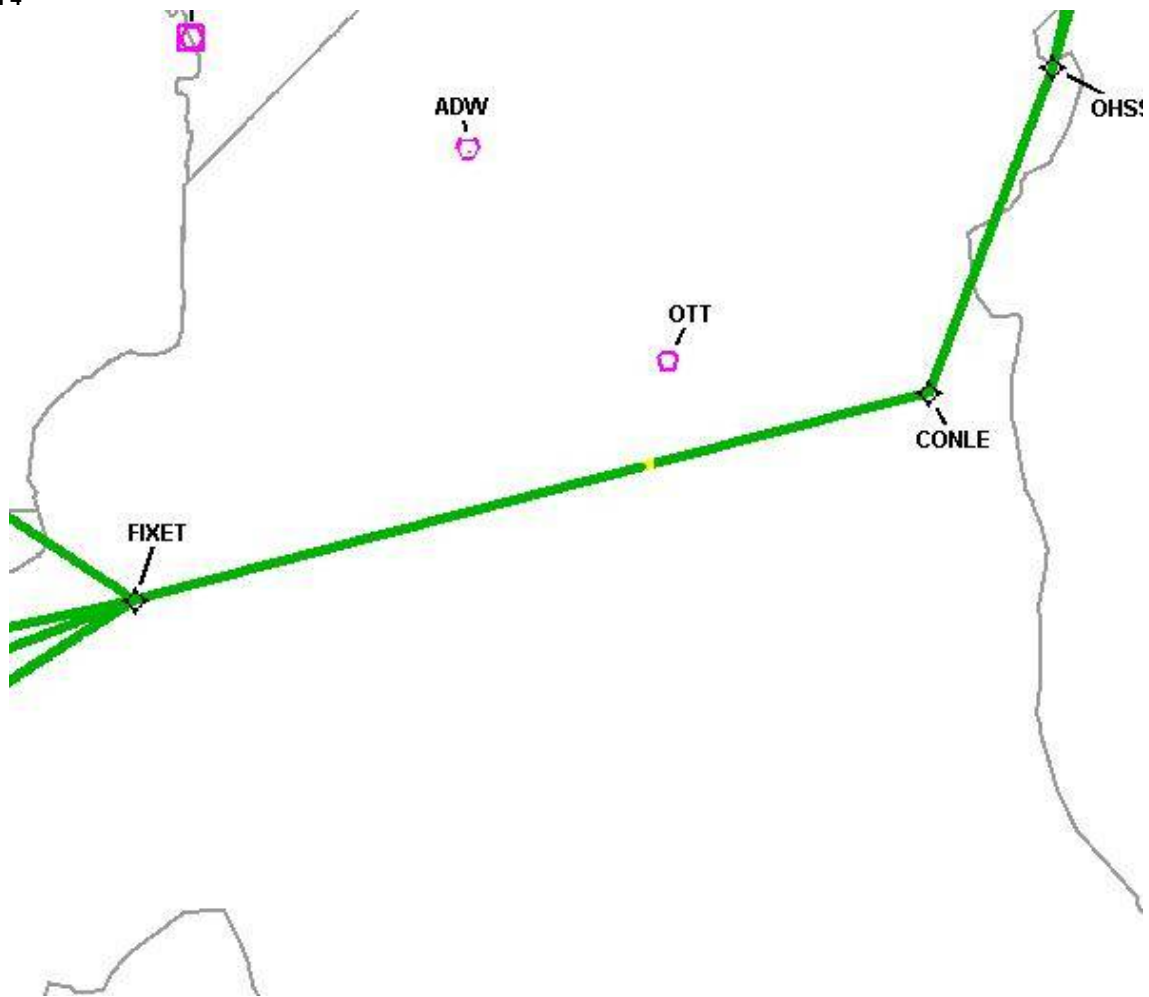
DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

Graphic Depiction 3



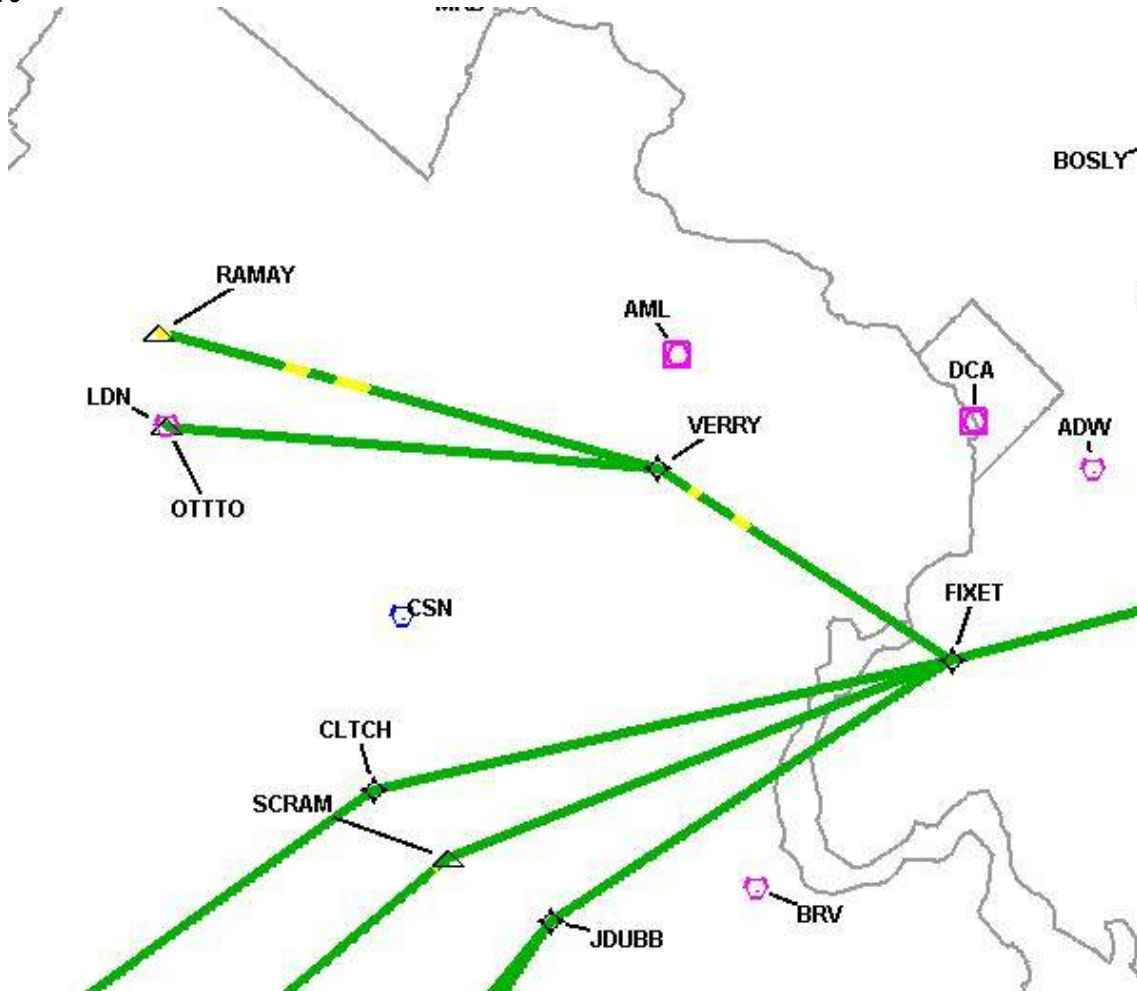
DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

Graphic Depiction 4



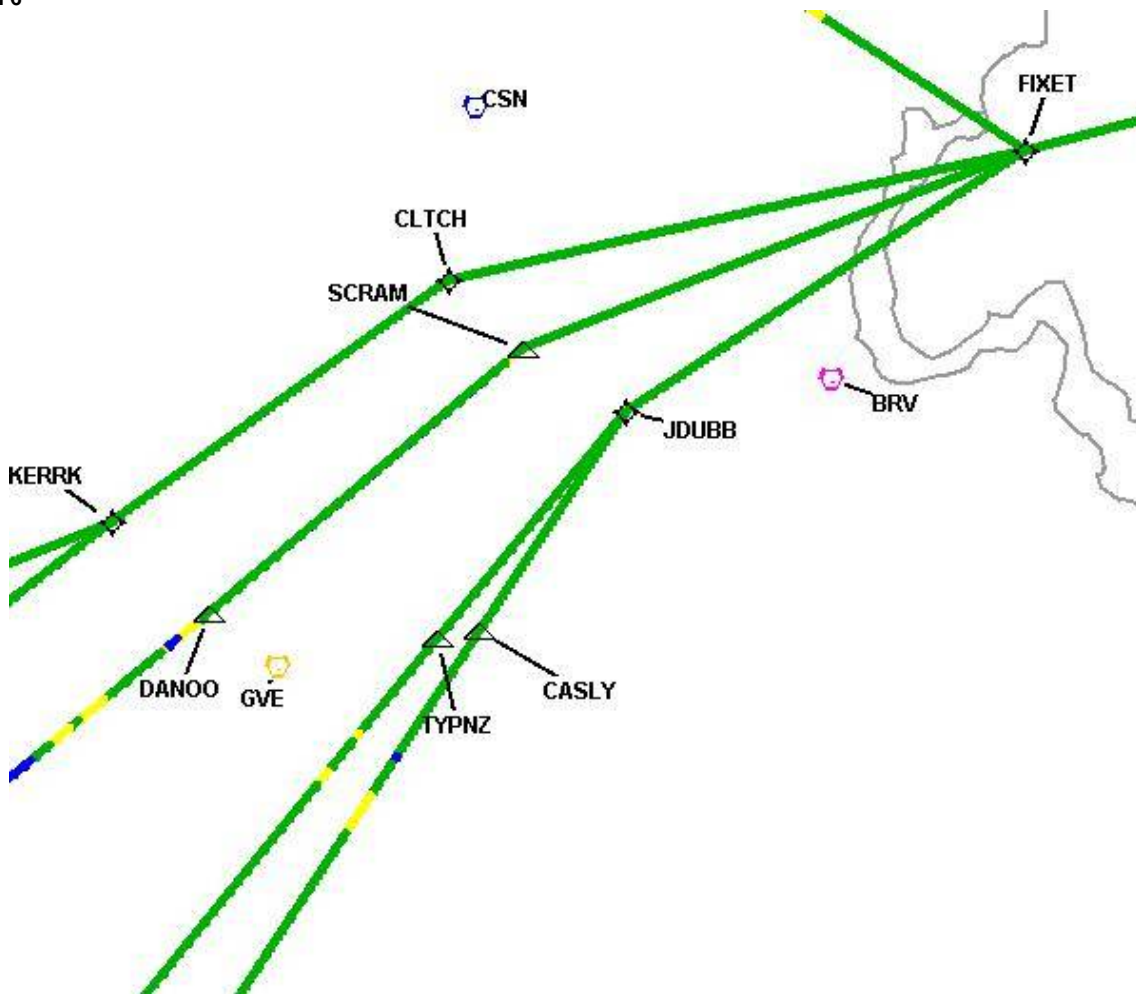
DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

Graphic Depiction 5



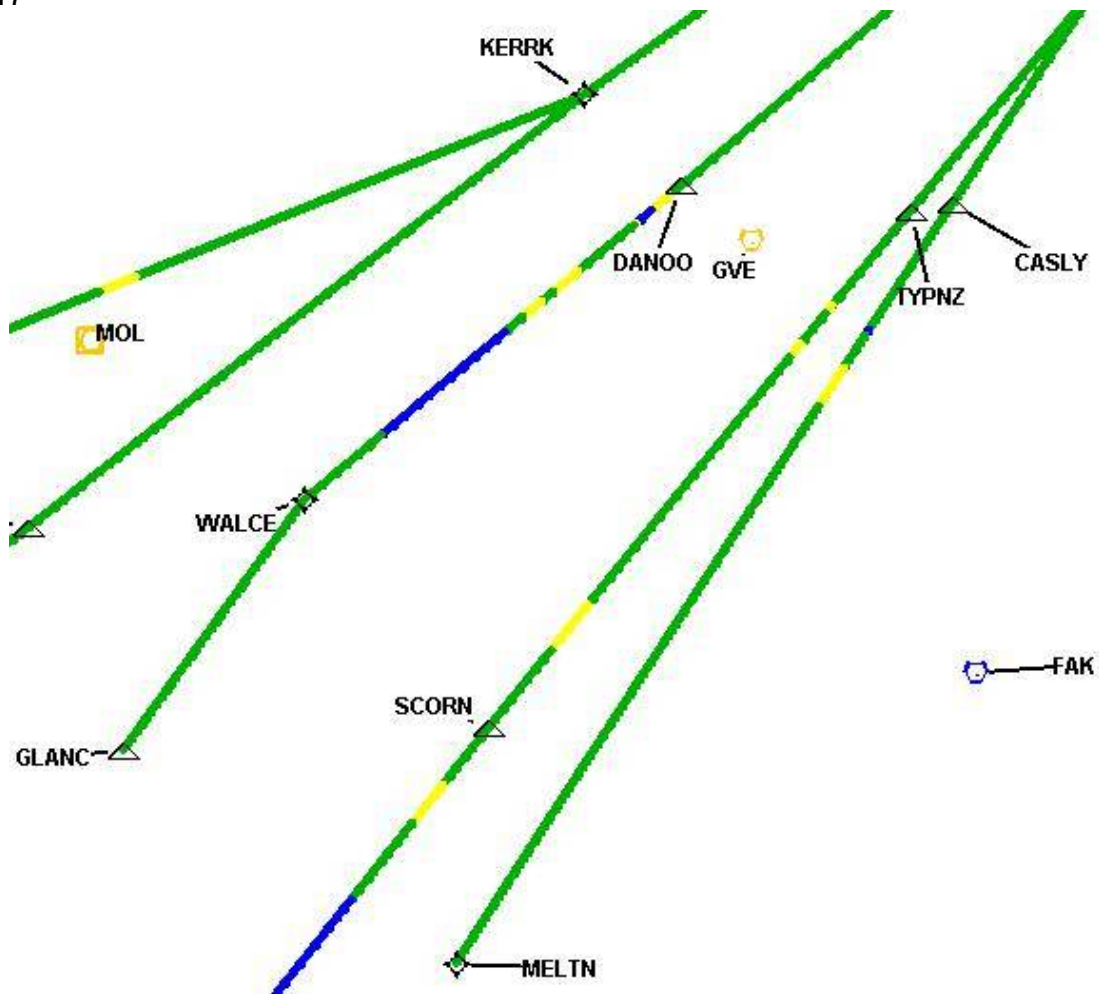
DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

Graphic Depiction 6



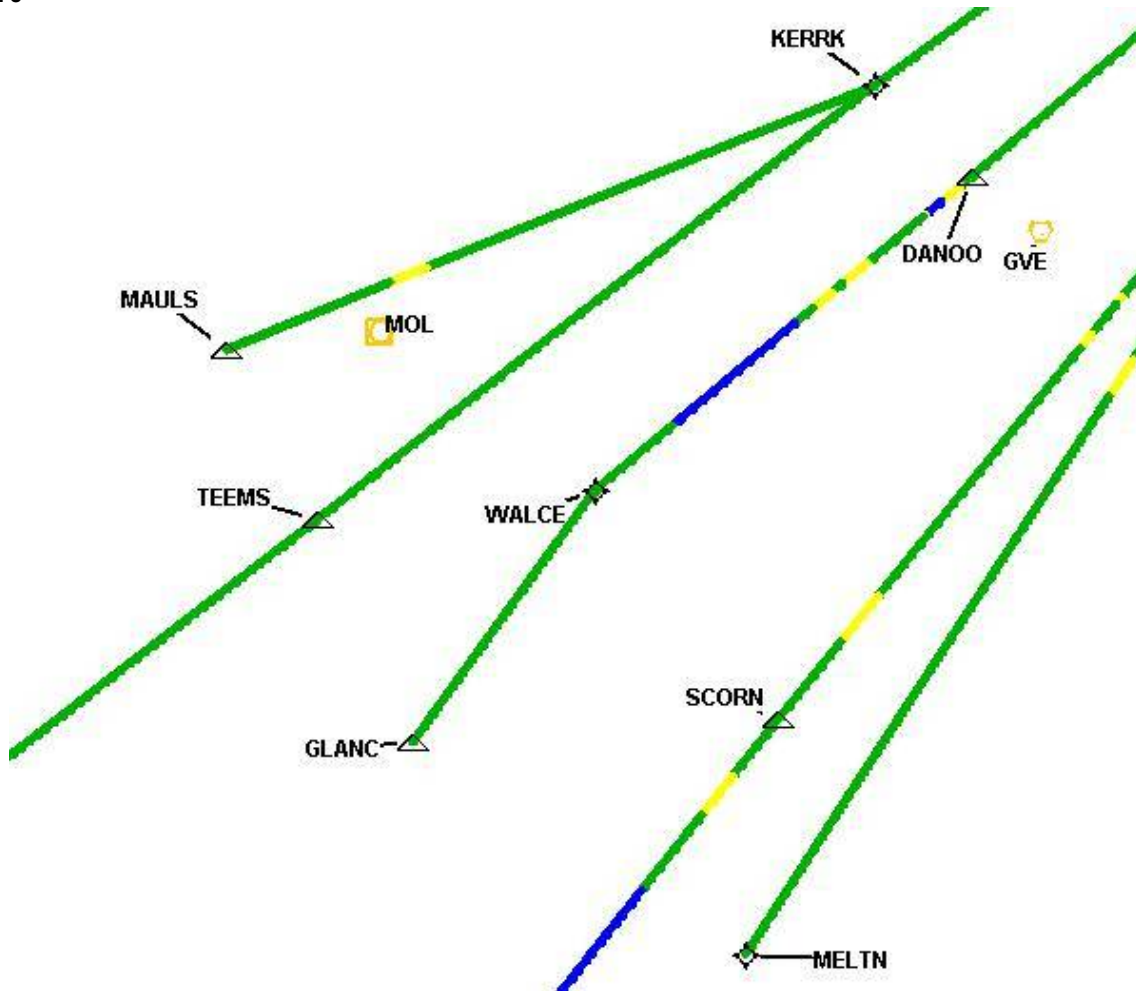
DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

Graphic Depiction 7



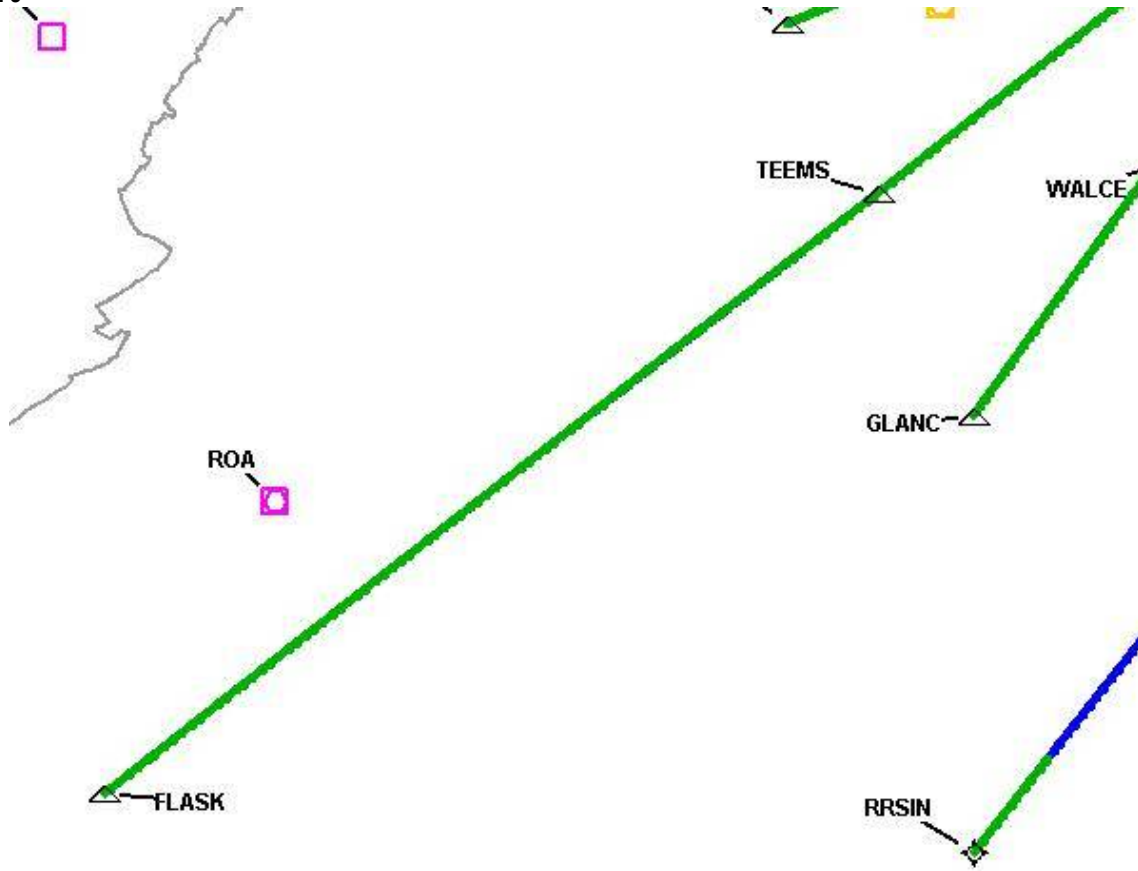
DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

Graphic Depiction 8



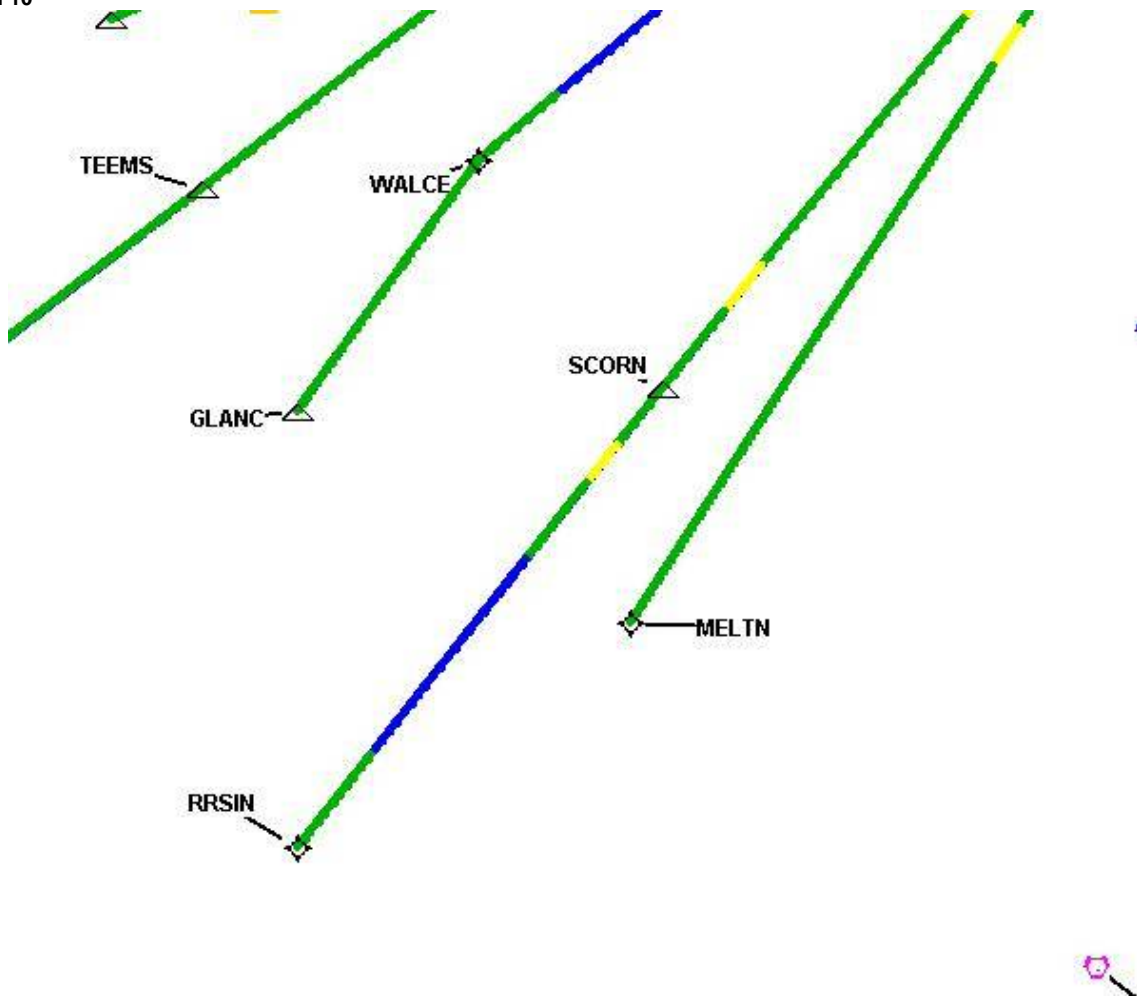
DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

Graphic Depiction 9



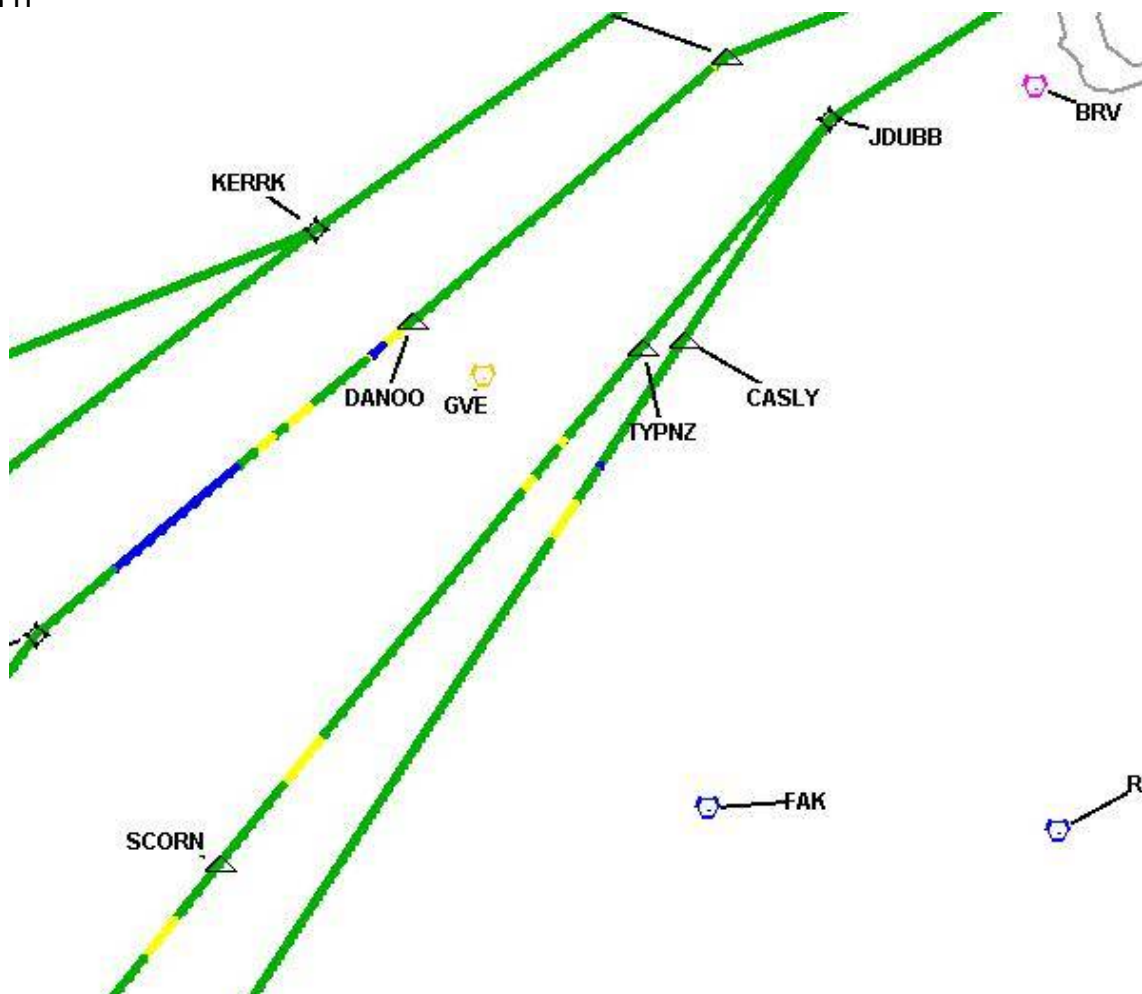
DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

Graphic Depiction 10



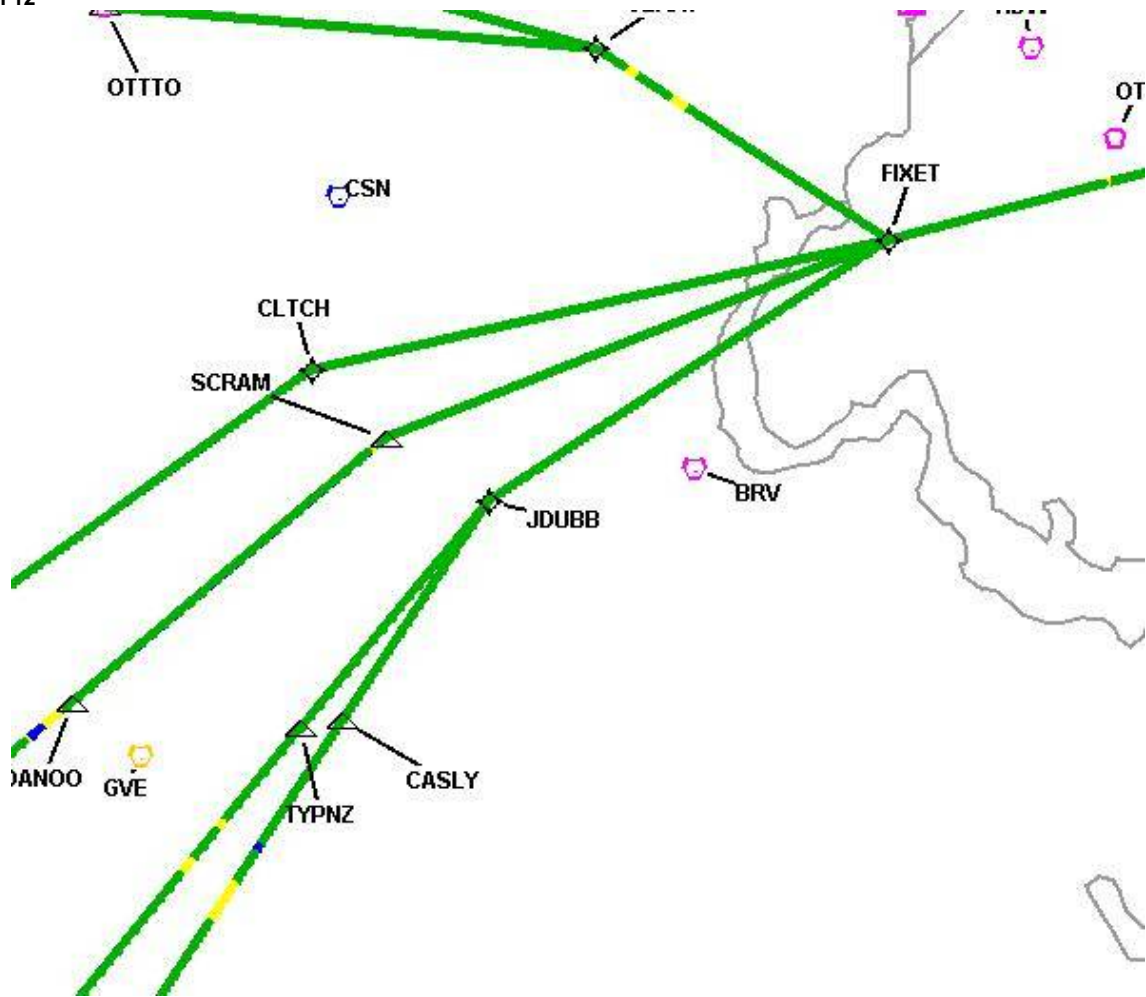
DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

Graphic Depiction 11



DME DME Assessment Results for FIXET4 path KBWI:RW33R:DER_SCABZ

Graphic Depiction 12



DME DME Assessment Results for FIXET4 path VERRY_RAMAY

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI FIXET4 (RNAV) SID DME DME_20231212 MITRE 3DEP 3 arcsec LOW ALT.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] FIXET4 20240207_1916 EST\VERRY_RAMAY\KBWI FIXET4 SID VERRY RAMAY 20240207_1916 EST.pdf
Procedure Name:	FIXET4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 19:16 EST
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
VERRY	WP	N38° 48' 28.5100", W077° 29' 42.9600"	9000	VNAV	200	FLY_BY	TF
RAMAY	WP	N38° 57' 38.5700", W078° 12' 59.0100"	9000	VNAV	200	FLY_BY	TF

Flyability

Flight Type:	SID
Selected Airport:	KBWI [IFPA]
Climb Gradient:	None assigned
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for FIXET4 path VERRY_RAMAY

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	FKN

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	MRB	N39° 23' 08.0600", W077° 50' 54.0820"	7.0 W	40	L	IFPA	NO	Enabled	92.7 %	92.7 %
2	OTT	N38° 42' 21.1352", W076° 44' 41.0854"	10.0 W	40	L	IFPA	NO	Enabled	10.8 %	10.8 %
3	LDN	N38° 51' 15.8344", W078° 12' 20.0559"	6.0 W	40	L	IFPA	NO	Enabled	76.9 %	76.9 %
4	FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	H	IFPA	NO	Enabled	4.6 %	4.6 %
5	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H	IFPA	NO	Enabled	65 %	65 %
6	ESL	N39° 13' 31.7740", W078° 59' 22.2000"	6.0 W	40	L	IFPA	NO	Enabled	1.7 %	1.7 %
7	AML	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	L	IFPA	NO	Enabled	100 %	100 %
8	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled	51.8 %	51.8 %
9	FKN	N36° 42' 51.2443", W077° 00' 44.5488"	9.0 W	40	L	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	AML	OTT	LDN	DCA	CSN	
3.8	MRB	DCA	CSN	LDN	AML	
18.2	CSN	LDN	AML	MRB		
22.8	AML	MRB	LDN			
24.7	AML	MRB	FAK	LDN		
26.4	AML	MRB				
34.4	AML	LDN	MRB	ESL		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

DME DME Assessment Results for FIXET4 path VERRY_RAMAY

Available DMEs by Waypoints

Waypoint Before	Waypoint After	DME List	Suggested DMEs
VERRY	RAMAY	AML, FAK, DCA, LDN, MRB, OTT, CSN, ESL	

User Data Files

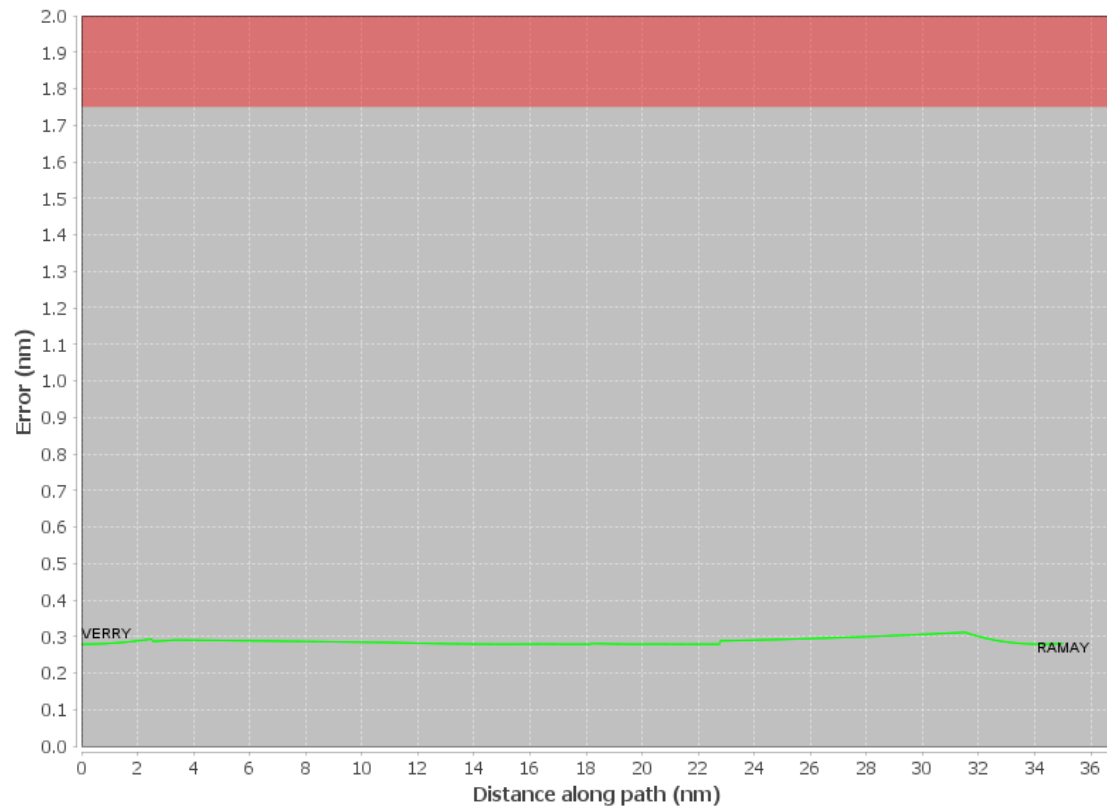
#	File Name
	None

User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GVE FAA 698194-12 GVE [IFPA]	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	GVE FAA 698194-12	
	ESV:	Bearing [True]: 173.0° to 218.0° Bearing [Mag]: 179.0° to 224.0°				Arc Distance: Out to 58.0 NM Altitude: 8000.0 to 16000.0 ft		
2	AML FAA 732650-41 AML [IFPA]	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	295.7	113.5	AML FAA 732650-41	
	ESV:	Bearing [True]: 172.0° to 242.0° Bearing [Mag]: 180.0° to 250.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 20000.0 ft		
3	CSN FAA 682017-12 CSN [IFPA]	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	CSN FAA 682017-12	
	ESV:	Bearing [True]: 183.0° to 215.0° Bearing [Mag]: 189.0° to 221.0°				Arc Distance: Out to 96.0 NM Altitude: 7500.0 to 16000.0 ft		
4	RIC FAA 704161-21 RIC [IFPA]	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	RIC FAA 704161-21	
	ESV:	Bearing [True]: 285.0° to 9.0° Bearing [Mag]: 294.0° to 18.0°				Arc Distance: Out to 65.0 NM Altitude: 5000.0 to 16000.0 ft		
5	FAK FAA 698146-14 FAK [IFPA]	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	FAK FAA 698146-14	
	ESV:	Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
6	HPW FAA 698117-16 HPW [IFPA]	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	70	114.35	HPW FAA 698117-16	
	ESV:	Bearing [True]: 259.0° to 284.0° Bearing [Mag]: 265.0° to 290.0°				Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 18000.0 ft		

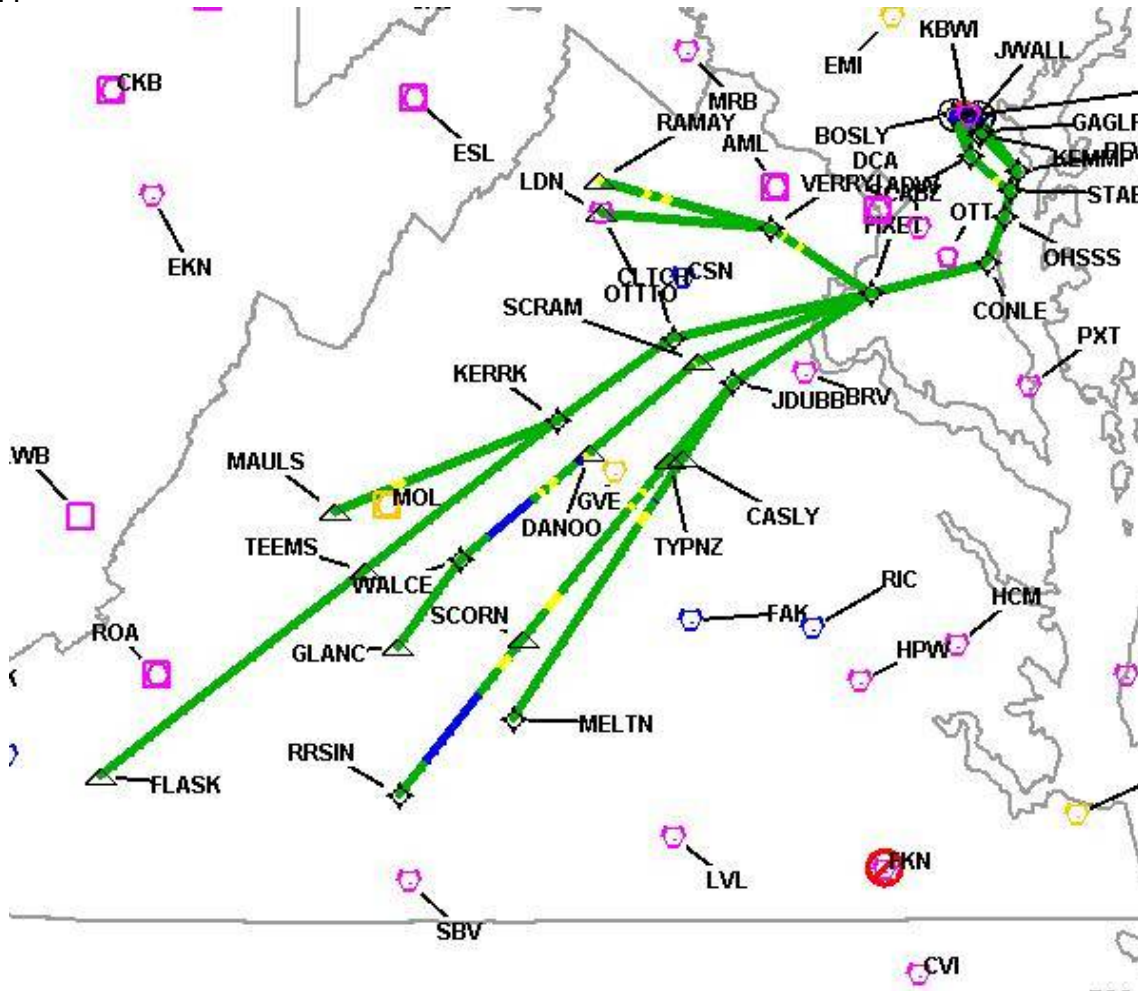
DME DME Assessment Results for FIXET4 path VERRY_RAMAY

DME Error

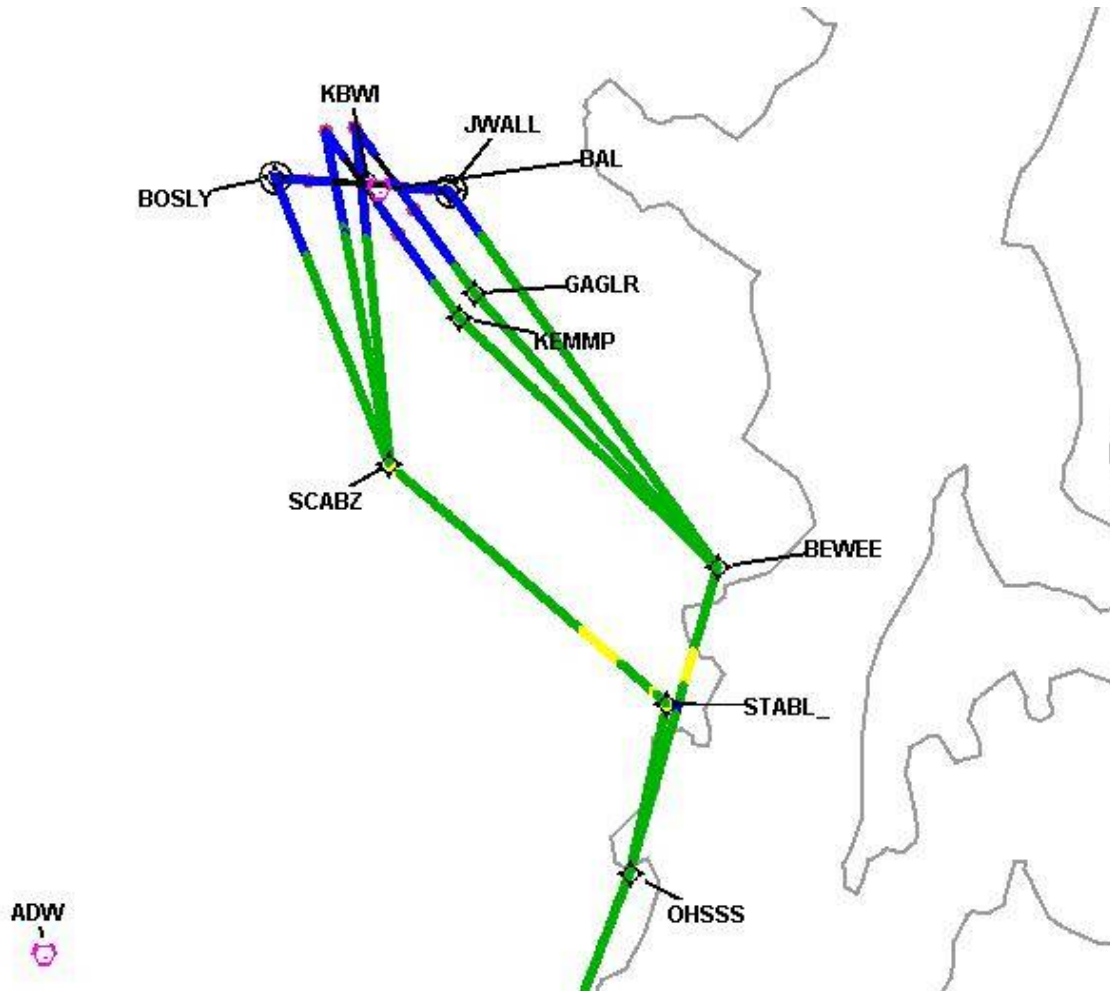


DME DME Assessment Results for FIXET4 path VERRY_RAMAY

Graphic Depiction 1

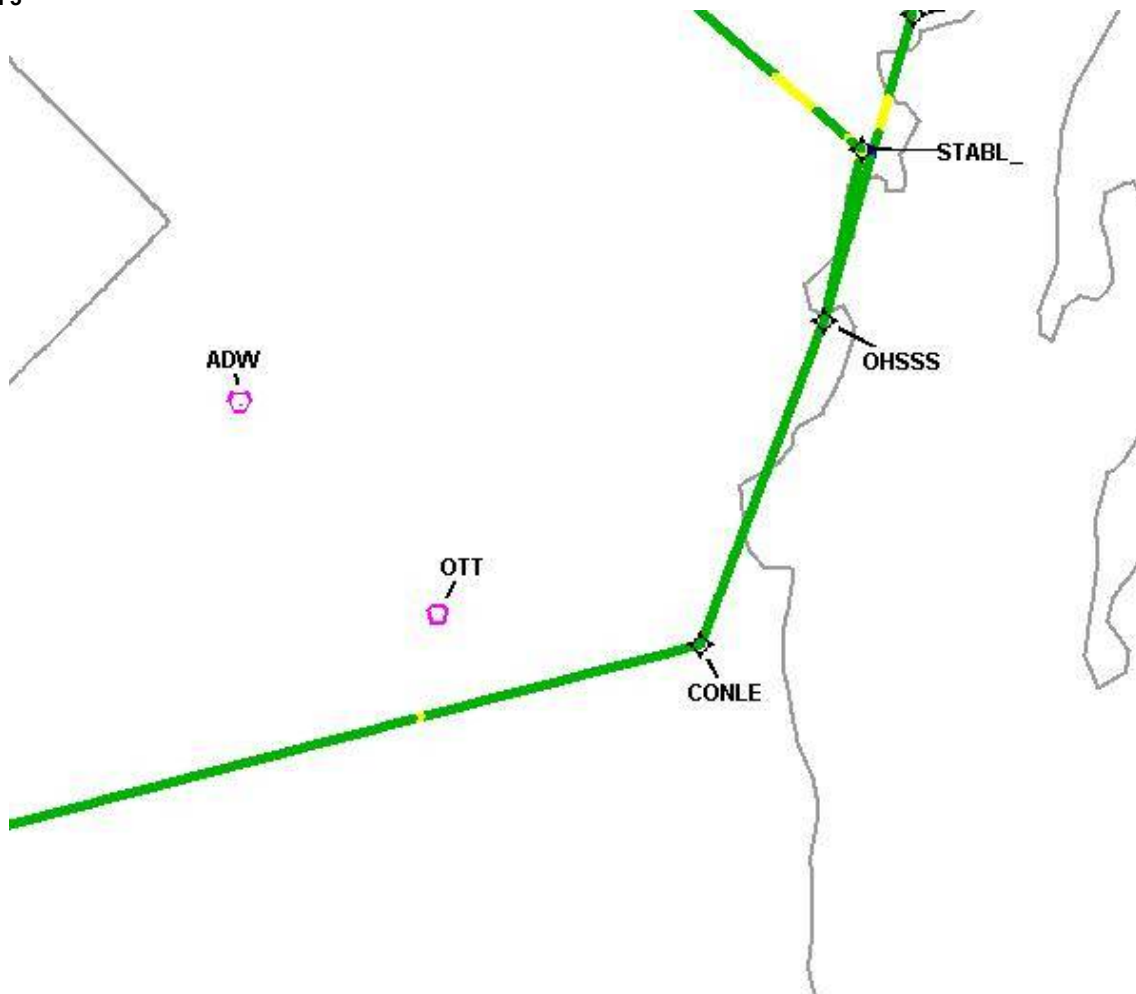


DME DME Assessment Results for FIXET4 path VERRY_RAMAY



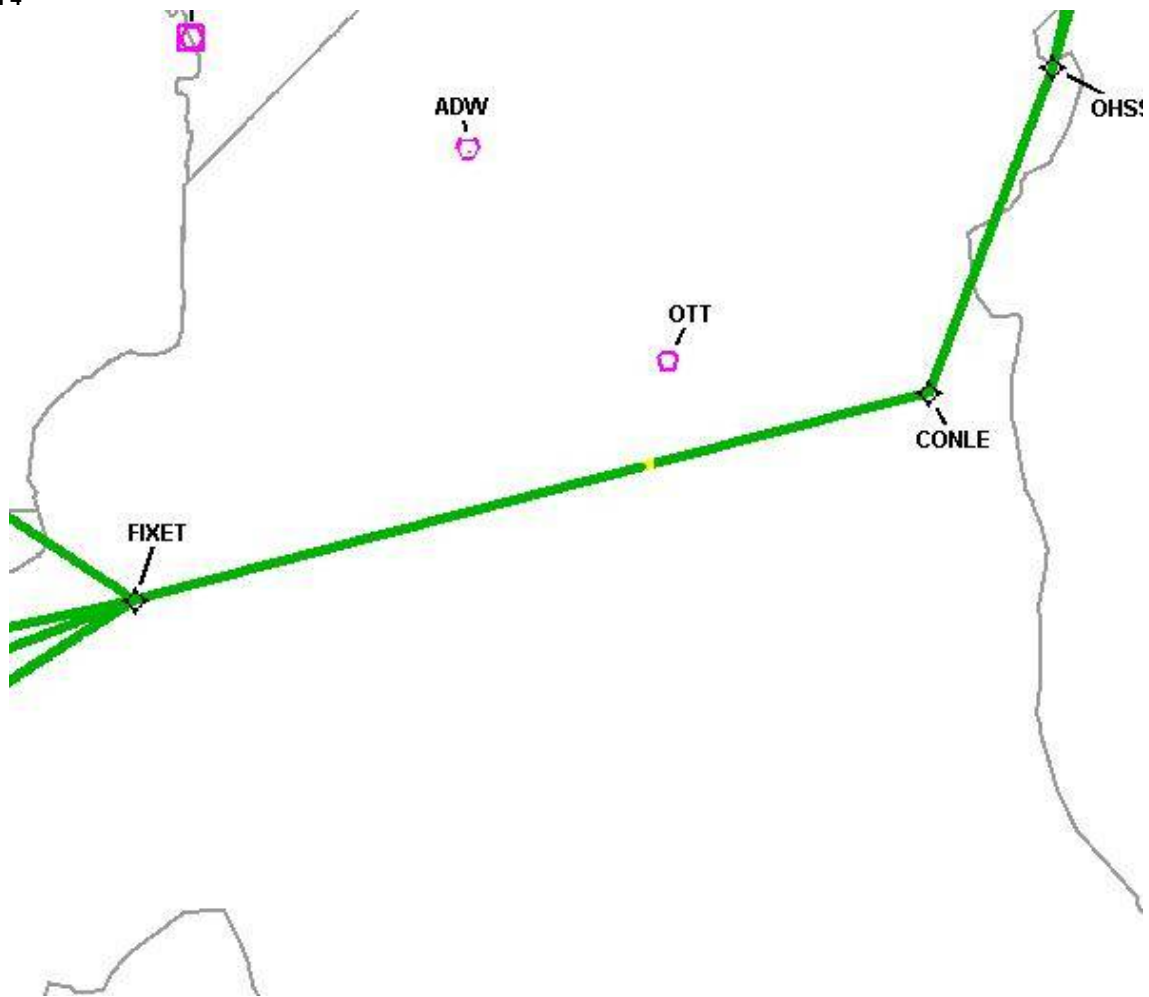
DME DME Assessment Results for FIXET4 path VERRY_RAMAY

Graphic Depiction 3



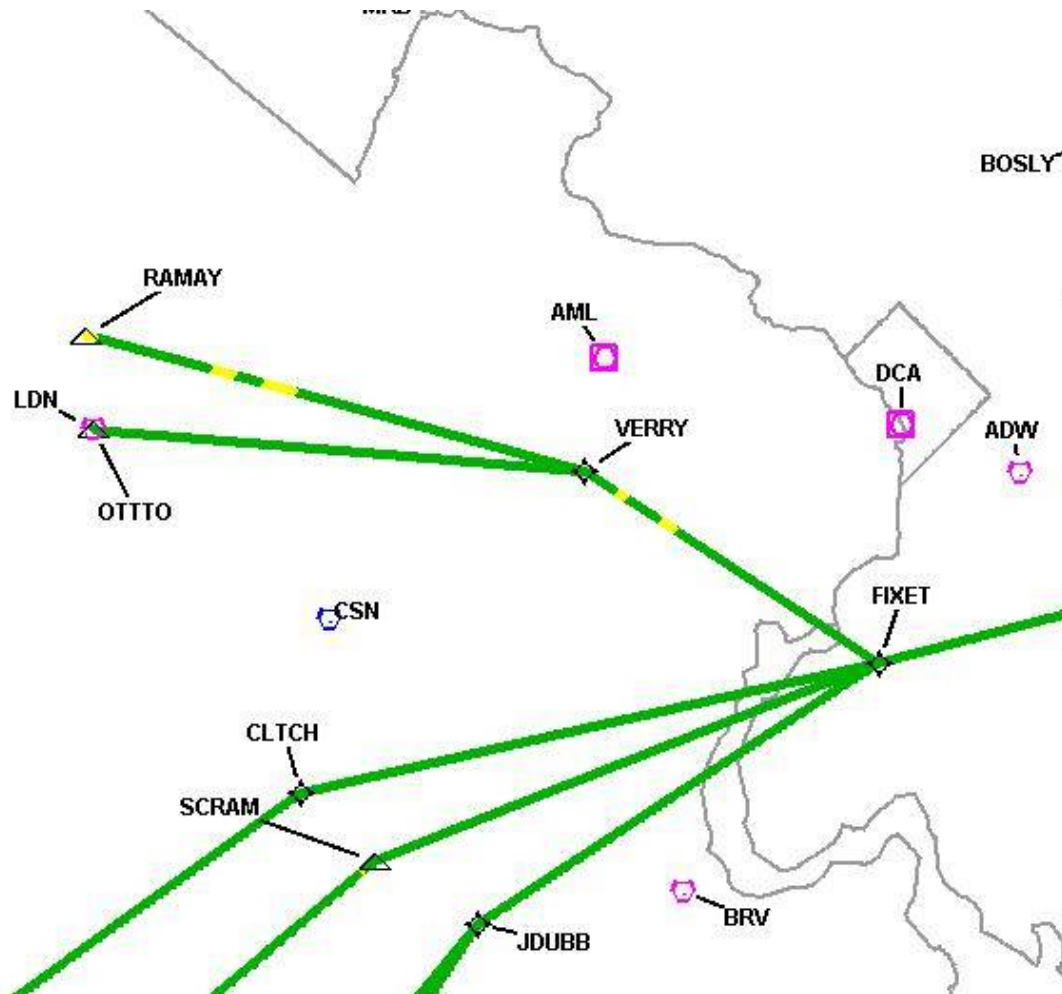
DME DME Assessment Results for FIXET4 path VERRY_RAMAY

Graphic Depiction 4



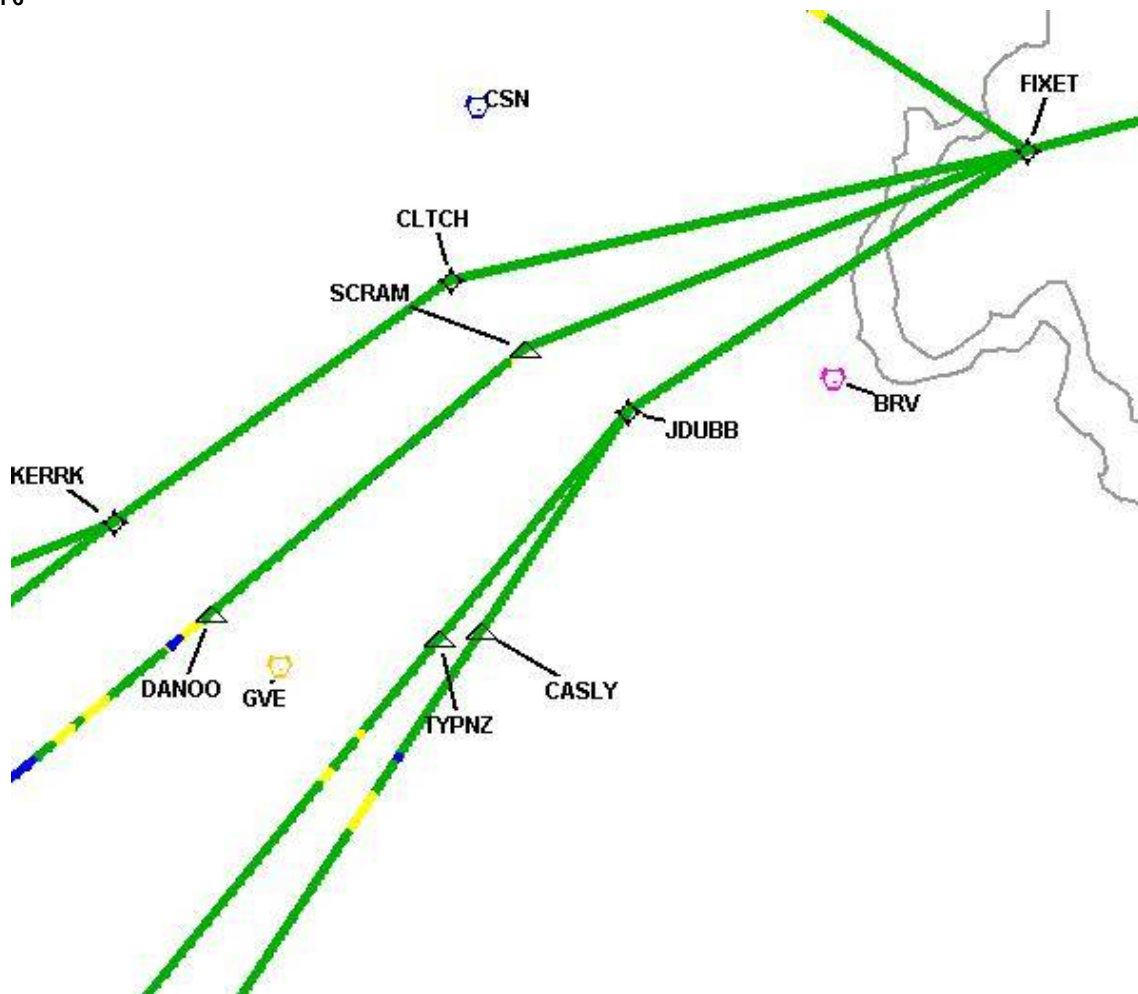
DME DME Assessment Results for FIXET4 path VERRY_RAMAY

Graphic Depiction 5



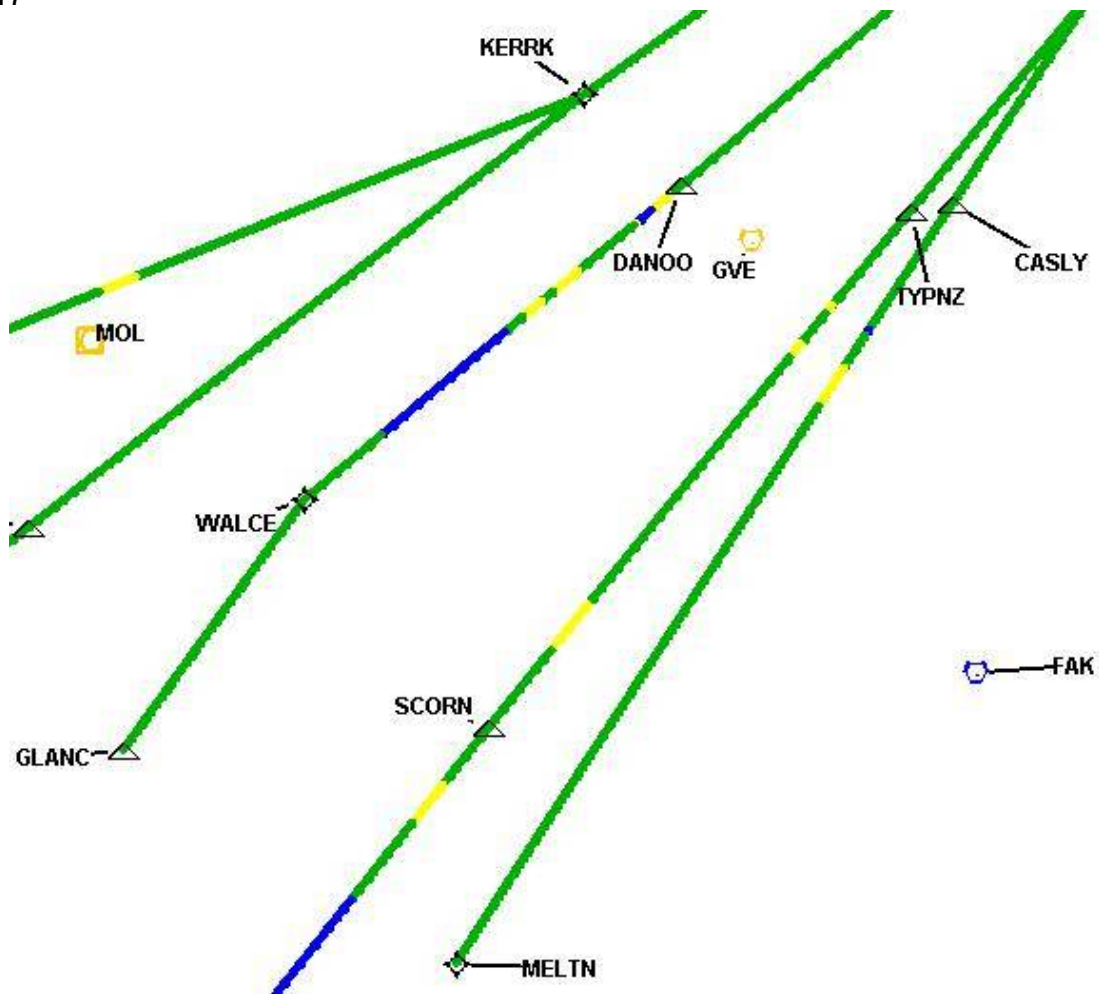
DME DME Assessment Results for FIXET4 path VERRY_RAMAY

Graphic Depiction 6



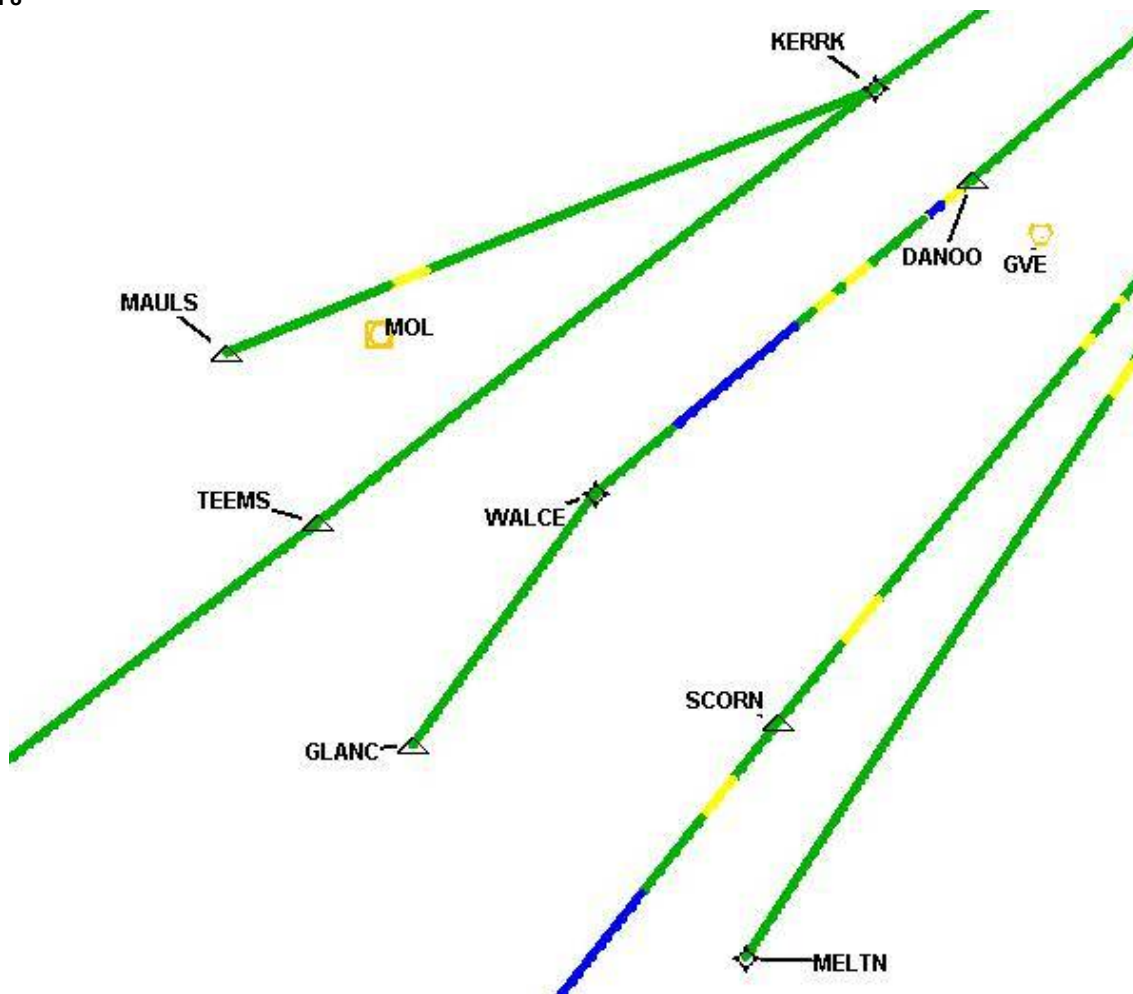
DME DME Assessment Results for FIXET4 path VERRY_RAMAY

Graphic Depiction 7



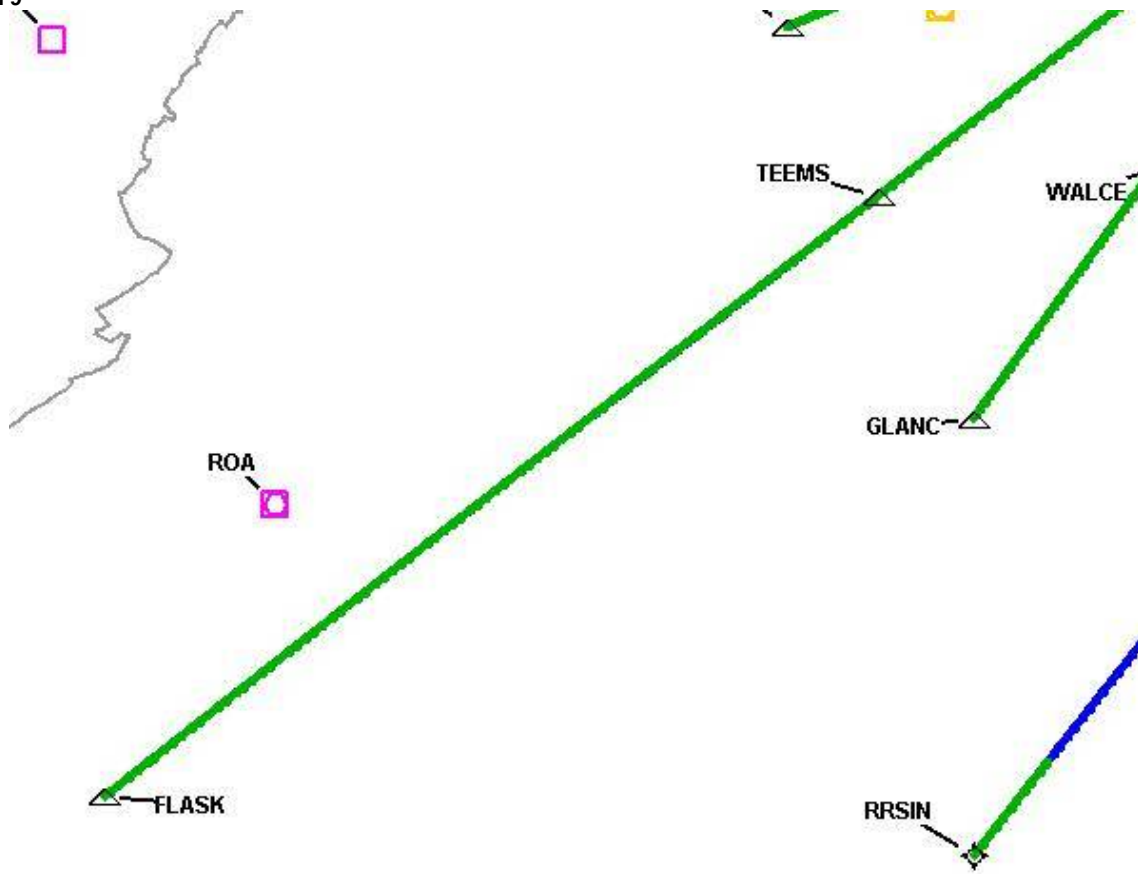
DME DME Assessment Results for FIXET4 path VERRY_RAMAY

Graphic Depiction 8



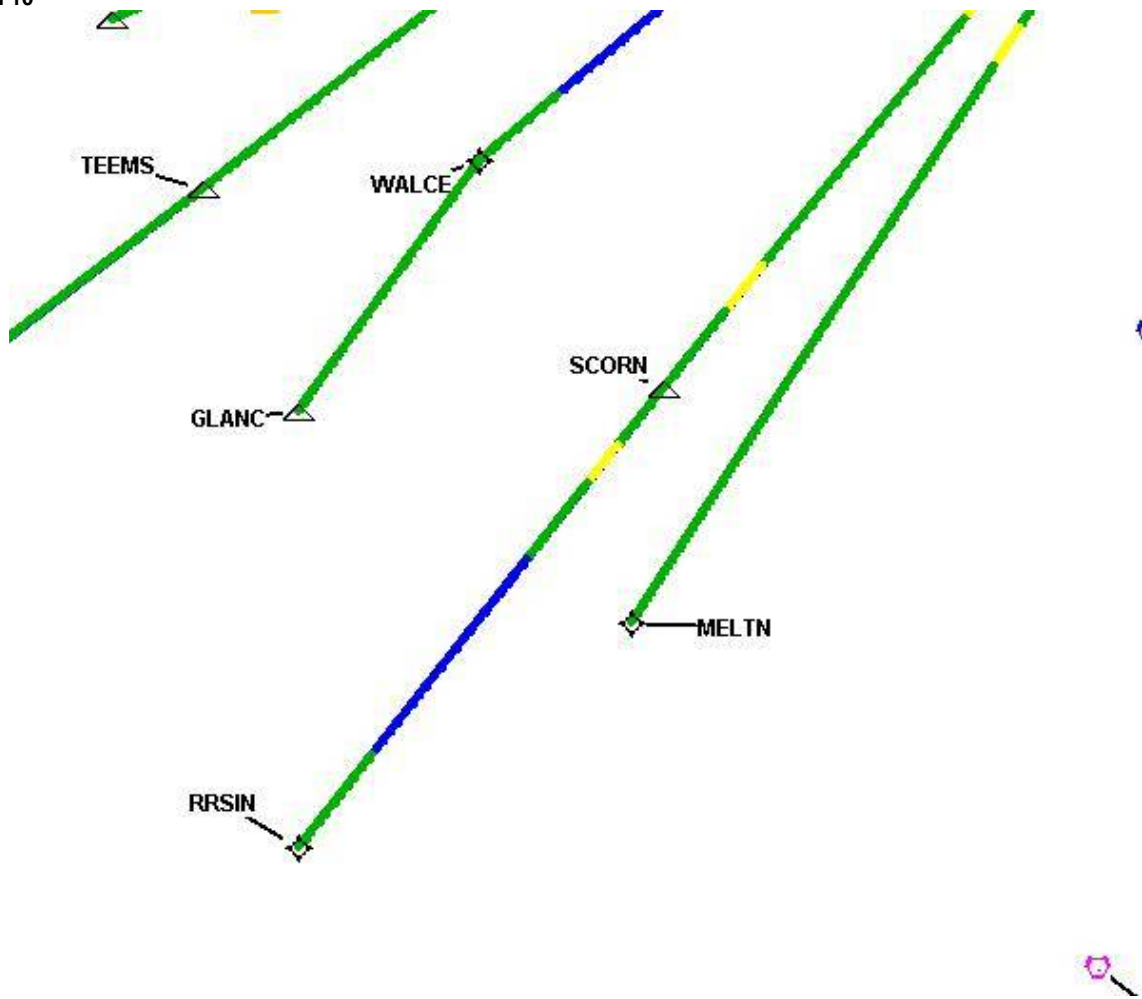
DME DME Assessment Results for FIXET4 path VERRY_RAMAY

Graphic Depiction 9



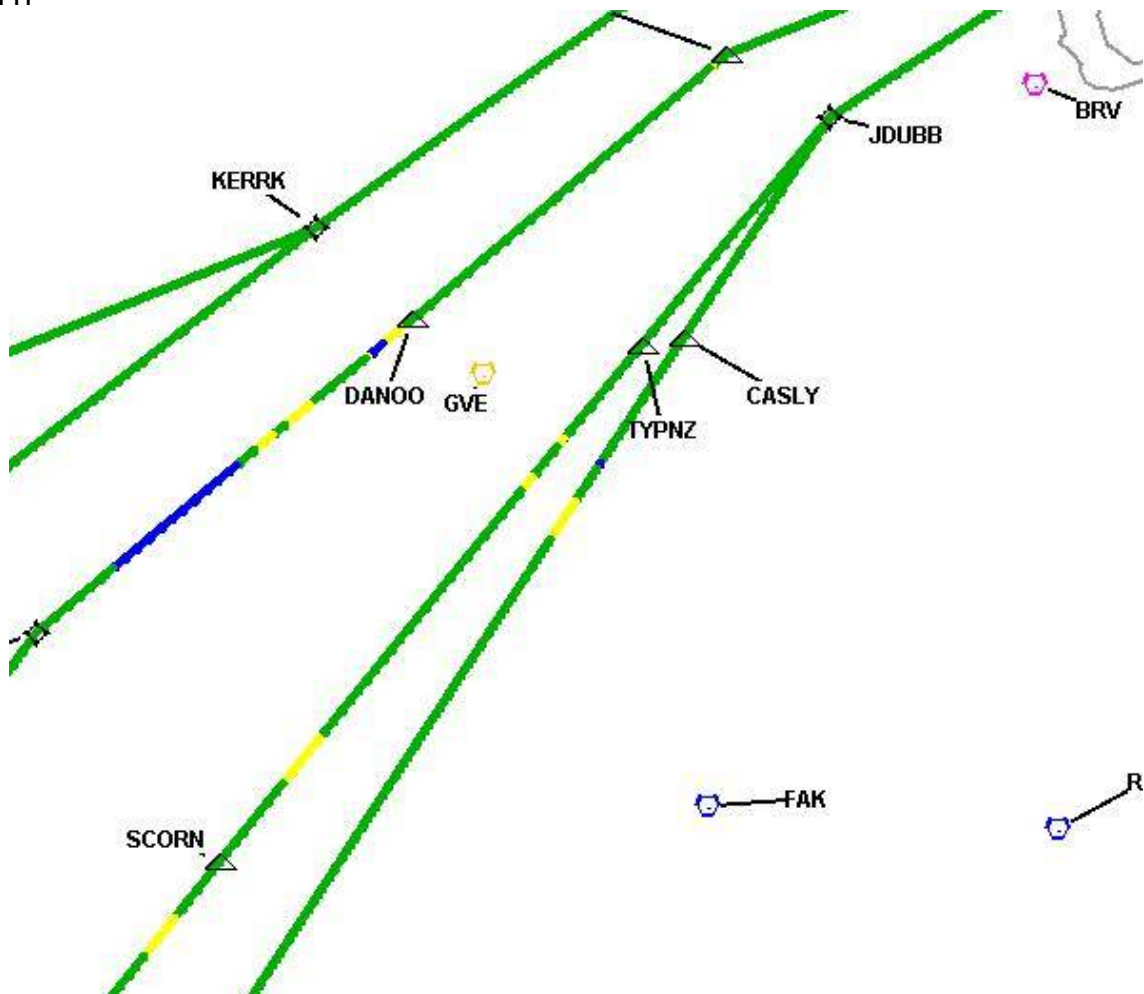
Graphic Depiction 10

DME DME Assessment Results for FIXET4 path VERRY_RAMAY



DME DME Assessment Results for FIXET4 path VERRY_RAMAY

Graphic Depiction 11



DME DME Assessment Results for FIXET4 path VERRY_RAMAY

Graphic Depiction 12

