

DME DME Assessment Results for SOOKI5 path KDCA:RW01:DER_REVGE

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Mason
Project File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SOOKI\SOOKI.tgs
Output File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SOOKI\KDCA [IFPA] SOOKI5 20191113_1318 EST\KDCA-RW01-DER_REVGE\KDCA SOOKI5 SID KDCA RW01 REVGE 20191113_1318 EST.pdf
Procedure Name:	SOOKI5
Software: DmeDmePlugin:	6.0.0
Date/Time:	11/13/2019 13:18 EST
Databases:	DTED.MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KDCA:RW01:DER	WP	N38° 51' 40.293300000", W077° 02' 19.405300000"	12.1	VNAV	130	FLY_BY	TF
REVGE	WP	N38° 53' 59.460000000", W077° 04' 14.240000000"	1500	VNAV	220	FLY_BY	TF
Climb Gradient: 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KDCA [IFPA]
Climb Gradient:	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 SOOKI5 path KDCA:RW01:DER_REVGE

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
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:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	BAL	N39° 10' 15.828300000", W076° 39' 40.522500000"	11.0 W	40	L	IFPA	NO	Enabled	2.3 %	2.8 %
2	ADW	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	L	IFPA	NO	Enabled	2.3 %	2.8 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
2.0	BAL	ADW				
2.0						
2.3	BAL	ADW				
2.4						

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N38° 51' 42.440681147", W077° 02' 19.621507274"	N38° 53' 20.965529013", W077° 03' 32.545077437"	1.974
2	N38° 53' 22.798694432", W077° 03' 34.530266426"	N38° 53' 33.797486694", W077° 03' 46.441995664"	0.2399

Available DMEs by Waypoints		
Waypoint Before	Waypoint After	DME List
KDCA:RW01:DER	REVGE	ADW, BAL

DME DME Assessment Results for SOOKI5 path KDCA:RW01:DER_REVGE

User Data Files

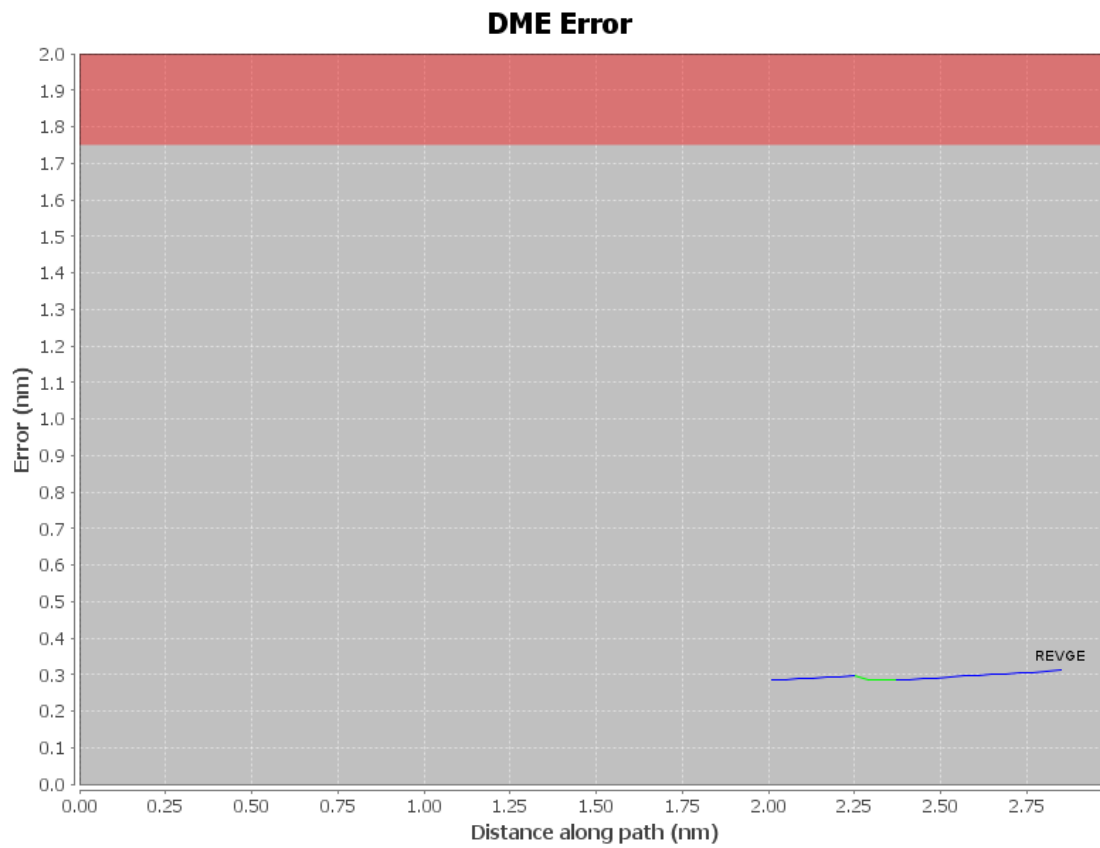
File Name

None

User DMEs

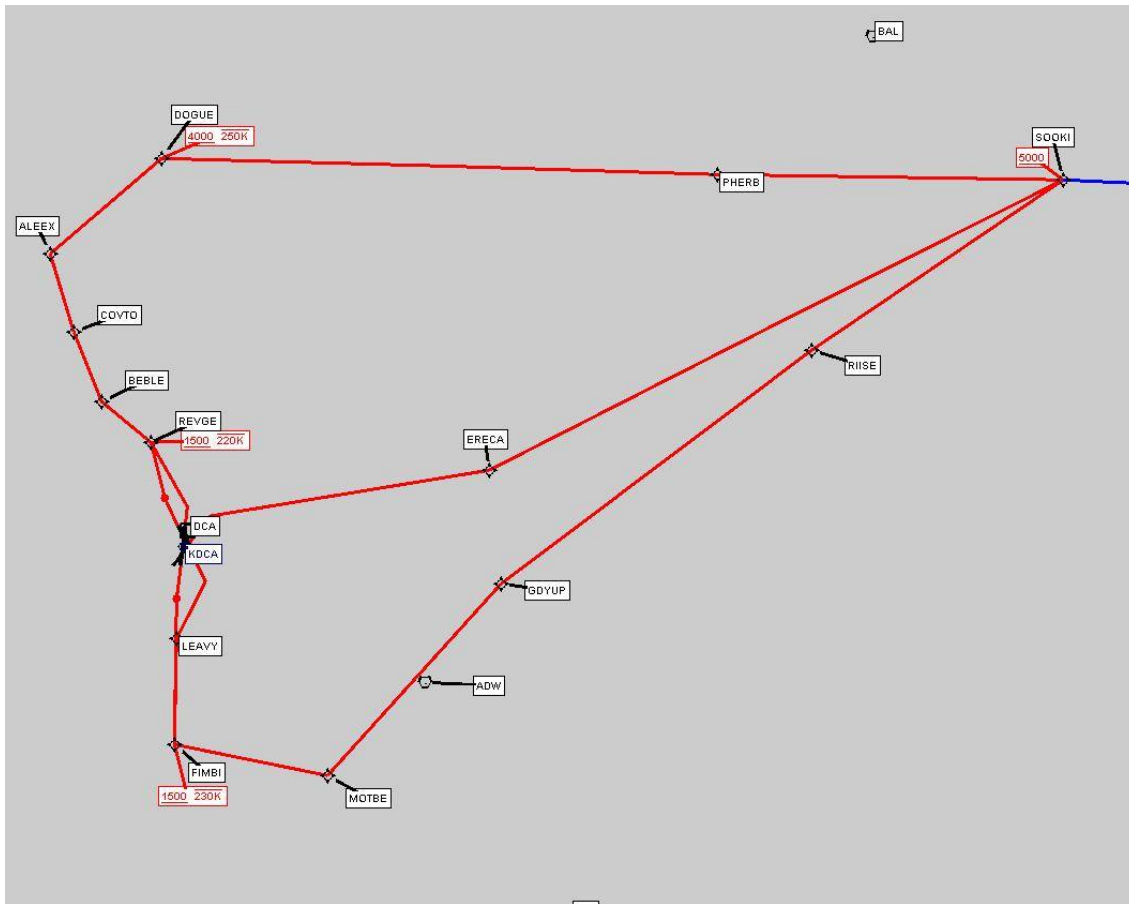
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	ESVB SBY [IFPA] SBY [IFPA]	N38° 20' 42.020100000", W075° 30' 38.067400000"	12.0 W	40	52.5	111.2	ESVB SBY [IFPA]	
ESV:		Bearing [True]: 313.0° to 333.0° Bearing [Mag]: 325.0° to 345.0°				Arc Distance: Out to 65.0 NM Altitude: 7000.0 to 16000.0 ft		
2	ADW FAA 880073-2 ADW [IFPA]	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	278.9	113.1	ADW FAA 880073-2	
ESV:		Bearing [True]: 308.0° to 332.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 20000.0 ft		

DME DME Assessment Results for SOOKI5 path KDCA:RW01:DER_REVGE



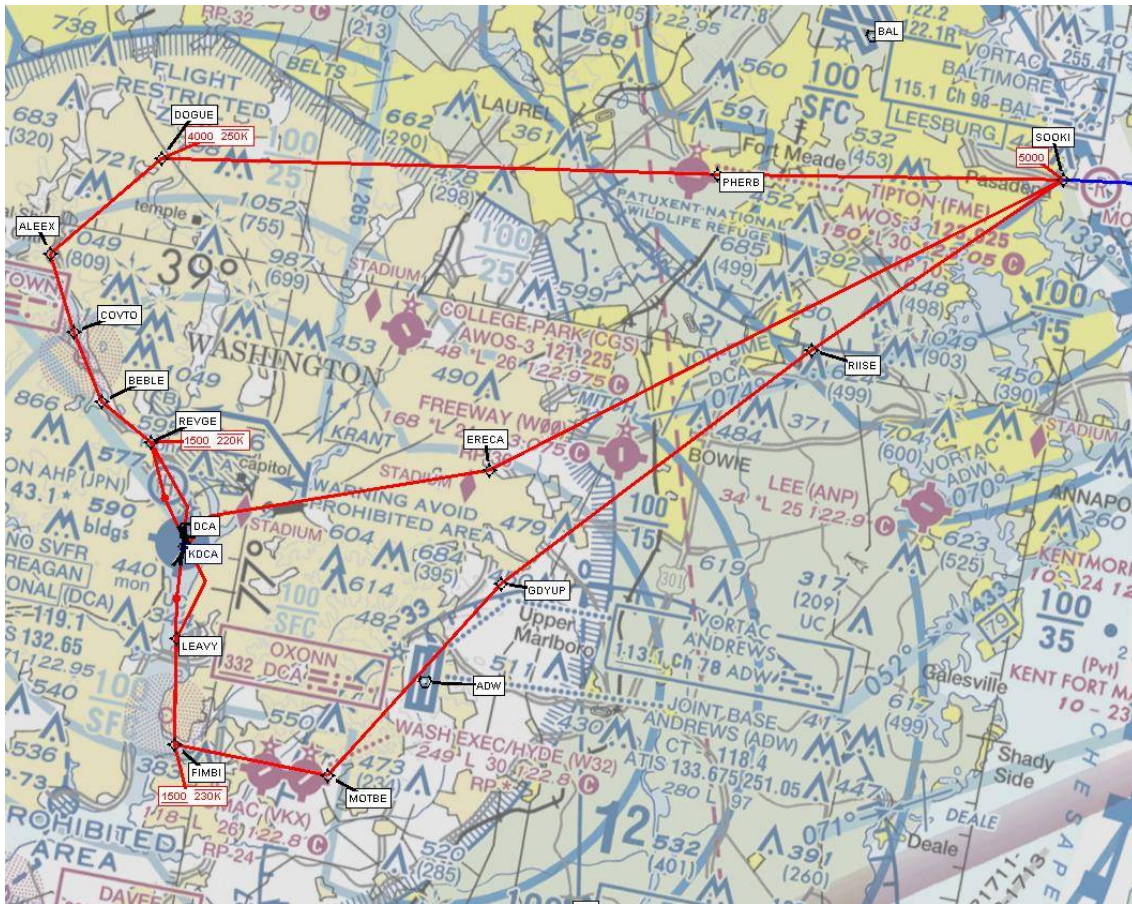
DME DME Assessment Results for SOOKI5 path KDCA:RW01:DER_REVGE

Graphic Depiction 1

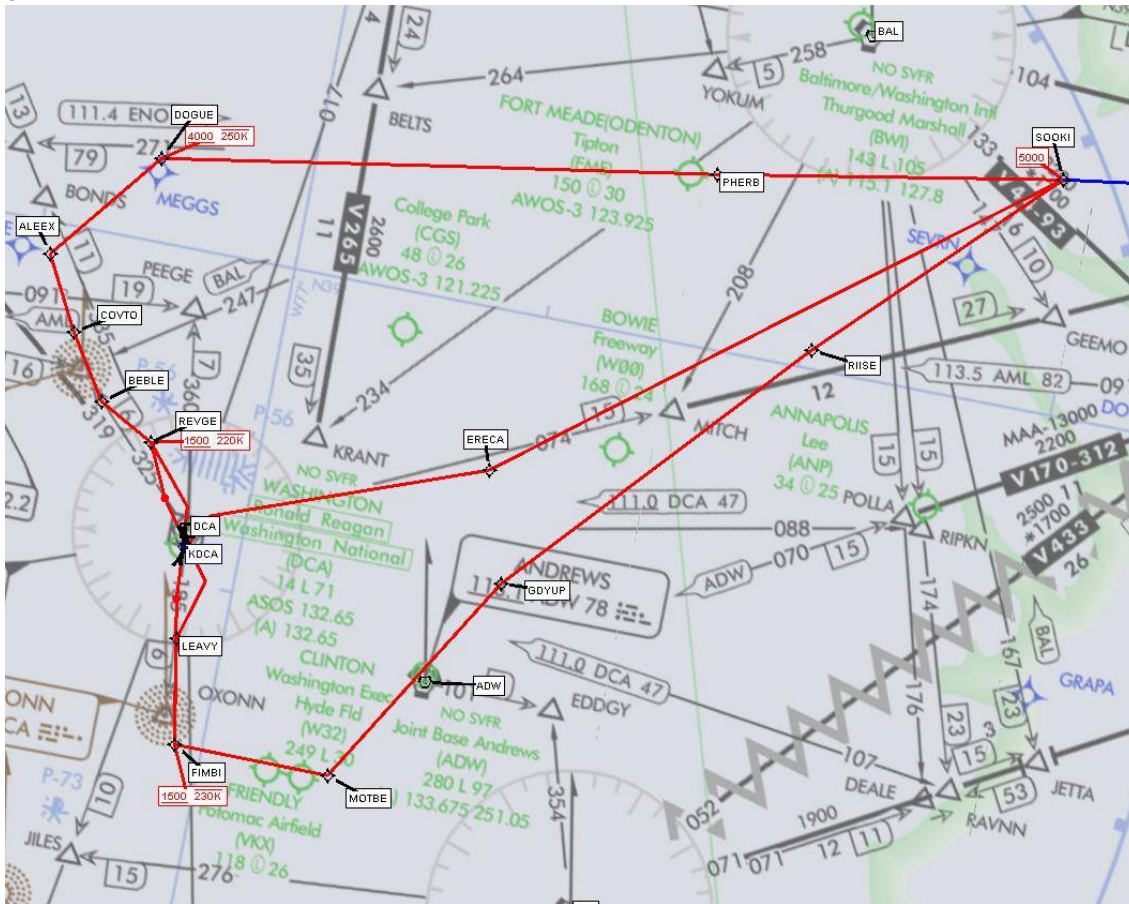


DME DME Assessment Results for SOOKI5 path KDCA:RW01:DER_REVGE

Graphic Depiction 2

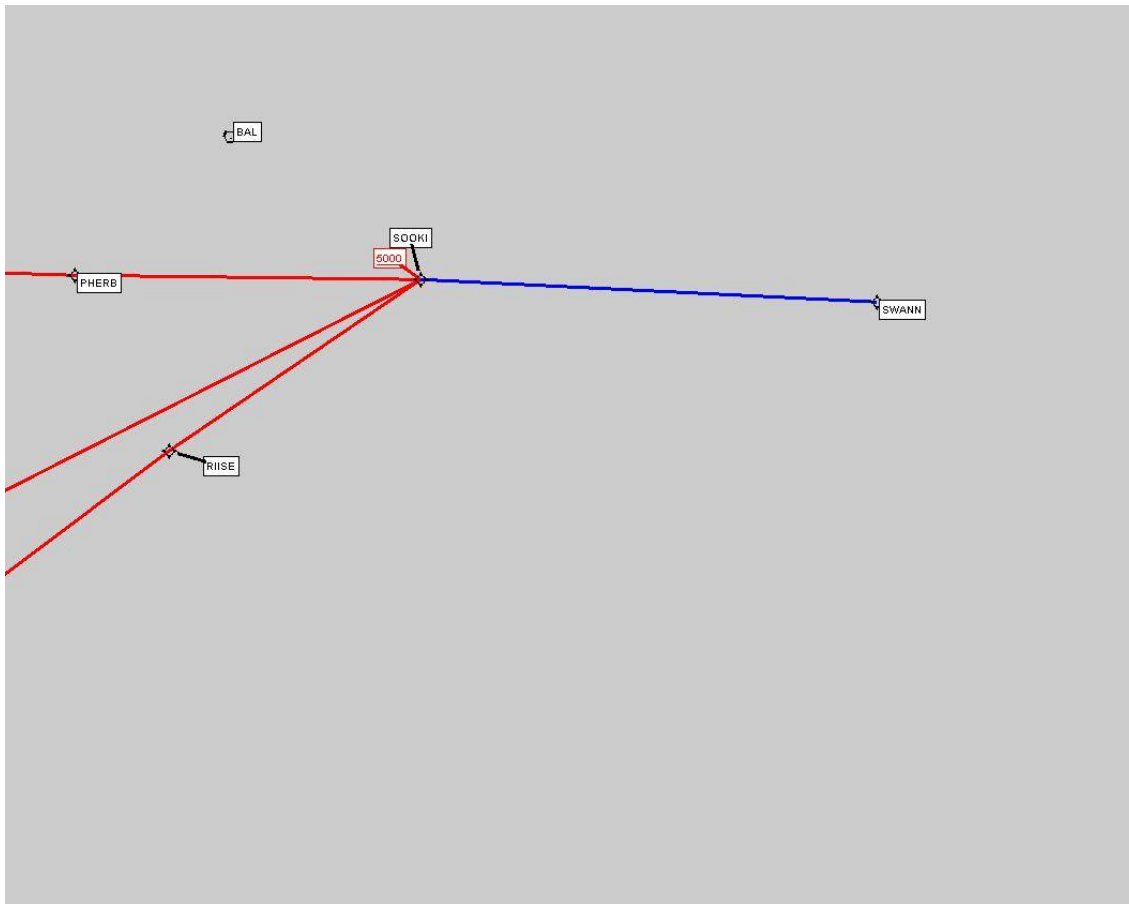


Graphic Depiction 3



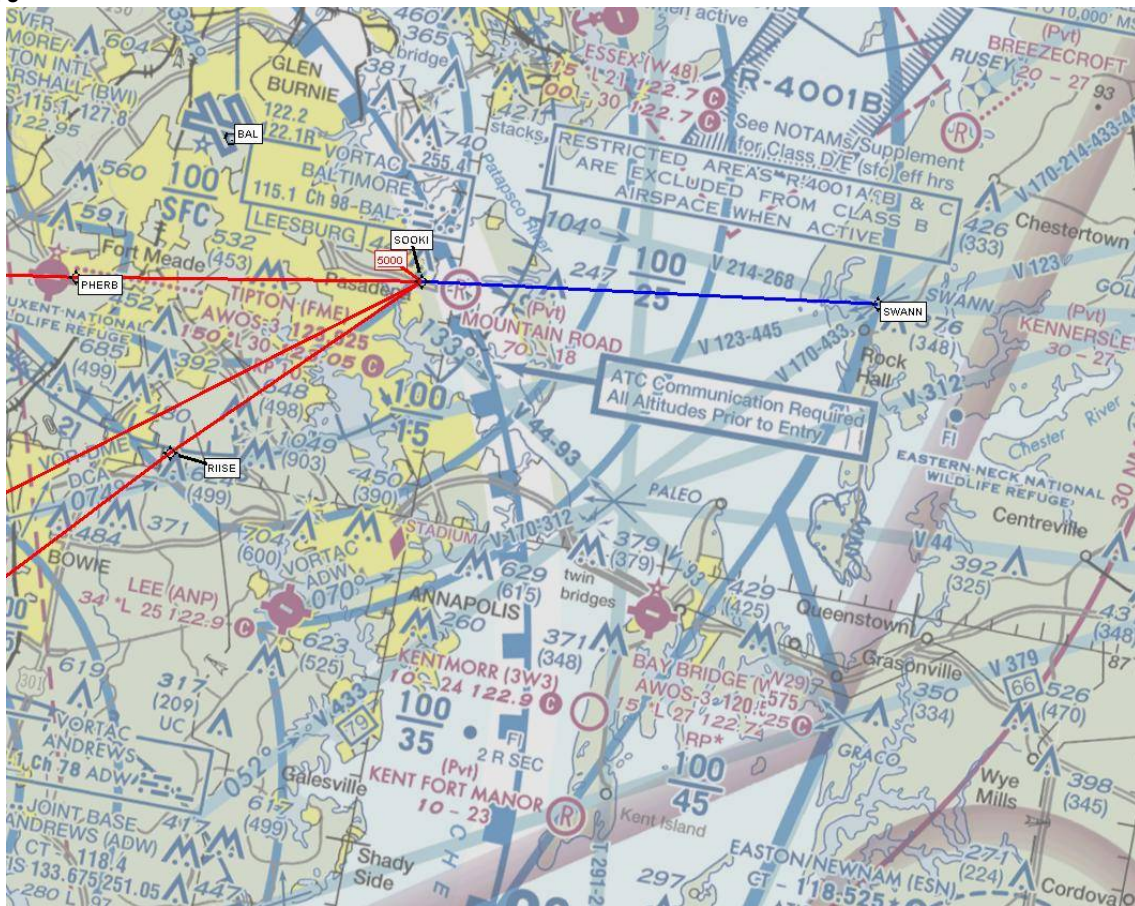
DME DME Assessment Results for SOOKI5 path KDCA:RW01:DER_REVGE

Graphic Depiction 4

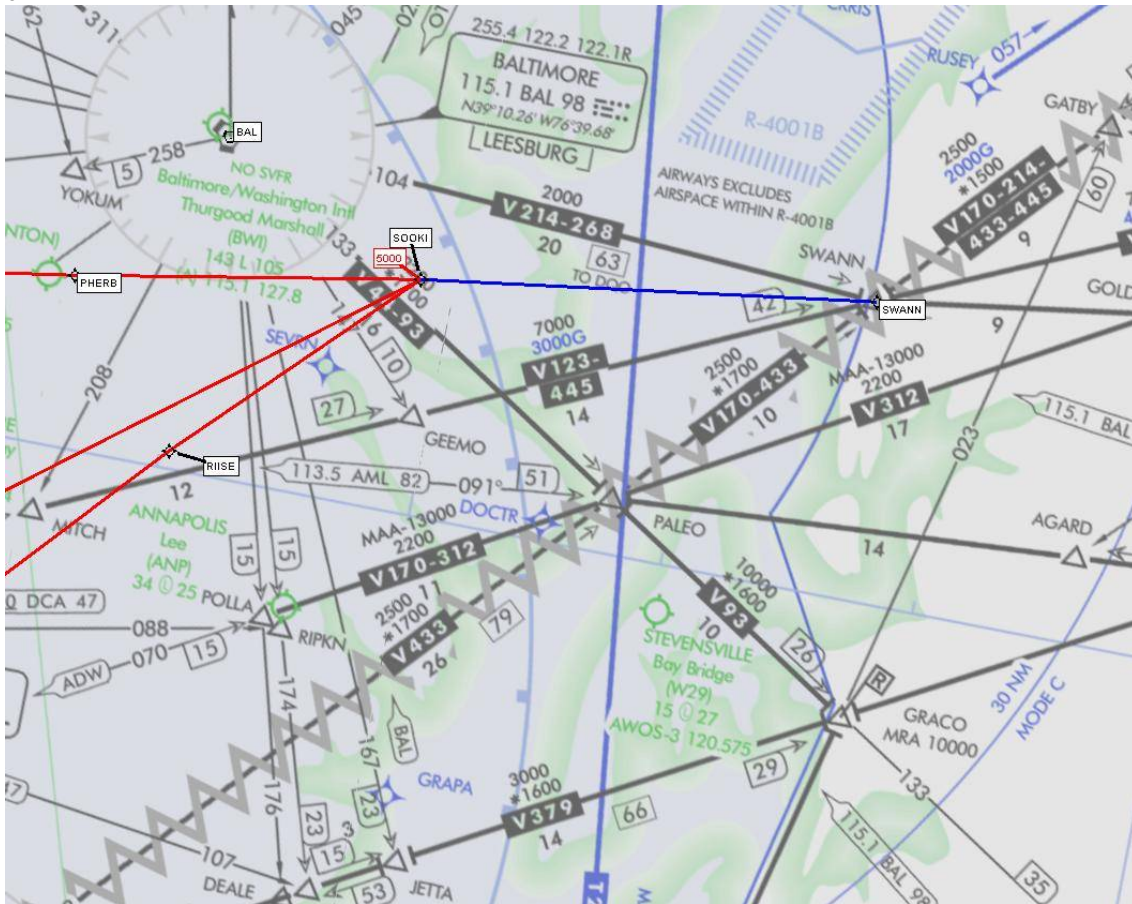


DME DME Assessment Results for SOOKI5 path KDCA:RW01:DER_REVGE

Graphic Depiction 5

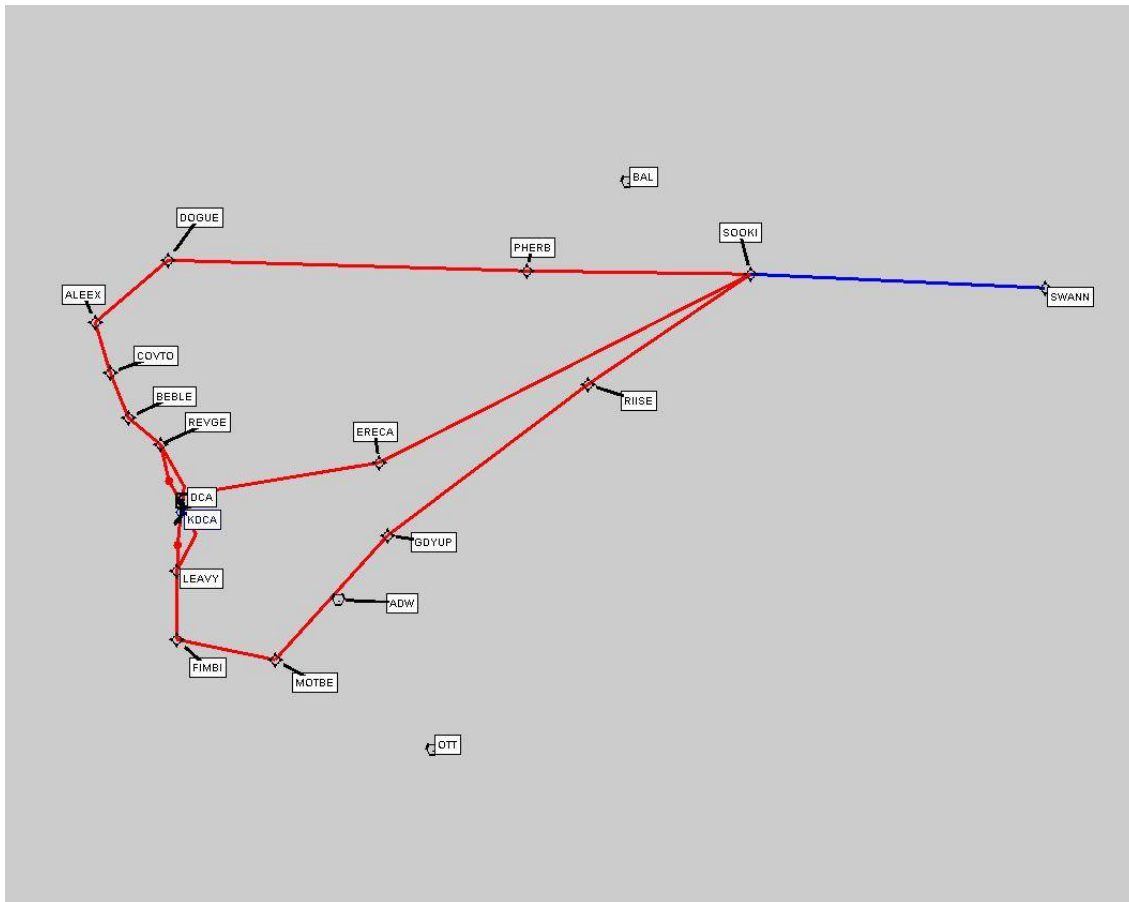


Graphic Depiction 6



DME DME Assessment Results for SOOKI5 path KDCA:RW01:DER_REVGE

Graphic Depiction 7



DME DME Assessment Results for SOOKI5 path KDCA:RW04:DER_SOOKI

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Mason
Project File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SOOKI\SOOKI.tgs
Output File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SOOKI\KDCA [IFPA] SOOKI5 20191113_1318 EST\KDCA-RW04-DER_SOOKI\KDCA SOOKI5 SID KDCA RW04 SOOKI 20191113_1318 EST.pdf
Procedure Name:	SOOKI5
Software: DmeDmePlugin:	6.0.0
Date/Time:	11/13/2019 13:18 EST
Databases:	DTED.MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KDCA:RW04:DER	WP	N38° 51' 12.639600000", W077° 02' 01.970800000"	11	VNAV	130	FLY_BY	TF
ERCA	WP	N38° 55' 07.665000000", W076° 51' 07.094000000"	4828.3	VNAV	200	FLY_BY	TF
SOOKI	WP	N39° 07' 06.180000000", W076° 31' 20.230000000"	5000	VNAV	250	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 515.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KDCA [IFPA]
Climb Gradient:	500.0 ft/NM up to 515.0 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 SOOKI5 path KDCA:RW04:DER_SOOKI

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
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:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OTT	N38° 42' 21.135200000", W076° 44' 41.085400000"	10.0 W	40	L	IFPA	NO	Enabled	79.1 %	80.6 %
2	BAL	N39° 10' 15.828300000", W076° 39' 40.522500000"	11.0 W	40	L	IFPA	NO	Enabled	73 %	74.3 %
3	AML	N38° 56' 04.538000000", W077° 28' 00.128500000"	8.0 W	40	L	IFPA	NO	Enabled	53.7 %	54.1 %
4	ADW	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	L	IFPA	NO	Enabled	73.6 %	75.1 %
5	EMI	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	H	IFPA	NO	Enabled	80.6 %	82.1 %
6	DCA	N38° 51' 34.030100000", W077° 02' 11.170000000"	9.0 W	40	L	IFPA	NO	Enabled	80 %	81.6 %

DME DME Assessment Results for SOOKI5 path KDCA:RW04:DER_SOOKI

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.6	OTT	BAL				
1.7	BAL	ADW				
1.8	OTT	BAL	ADW			
1.9	OTT	BAL				
1.9	OTT	BAL	ADW			
2.0	OTT	BAL				
2.1	OTT	BAL	ADW			
2.2	OTT	BAL				
2.3	OTT	BAL	ADW			
2.3	OTT	BAL				
2.4						
2.6	BAL	ADW				
2.7	OTT	BAL	ADW			
2.8						
2.9	BAL	ADW				
2.9	OTT	BAL	ADW			
3.0	BAL	ADW				
3.2	BAL	ADW	OTT			
3.2	BAL	ADW				
3.4	BAL	ADW	OTT			
3.6	BAL	ADW				
3.8	BAL	ADW	OTT			
4.0	BAL	ADW				
4.3	OTT	BAL				
4.4	BAL	ADW				
4.4						
4.7	OTT	BAL				
4.8						
4.9	OTT	BAL				
5.0	AML	BAL				
5.2	OTT	BAL	AML			
5.2	AML	EMI	BAL			
5.3	AML	EMI	OTT	BAL		
5.4	AML	EMI	DCA	BAL		
5.5	AML	EMI	OTT	DCA	BAL	
5.7	AML	EMI	DCA	BAL		
6.0	AML	EMI	OTT	DCA	BAL	
6.0	AML	EMI	DCA	BAL		
6.1	AML	EMI	OTT	DCA	BAL	
6.3	AML	EMI	DCA	BAL		
6.4	AML	EMI	OTT	DCA	BAL	
6.5	AML	EMI	DCA	BAL		
6.5	AML	EMI	OTT	DCA	BAL	
6.7	AML	EMI	DCA	BAL		
6.8	AML	EMI	OTT	DCA	BAL	
6.9	AML	EMI	DCA	BAL		
7.0	OTT	DCA	AML	EMI	BAL	
20.8	DCA	EMI	ADW	OTT		
22.3	DCA	EMI	BAL	ADW	OTT	
24.3	DCA	EMI	ADW	OTT		
27.7	BAL	ADW	DCA	EMI	OTT	

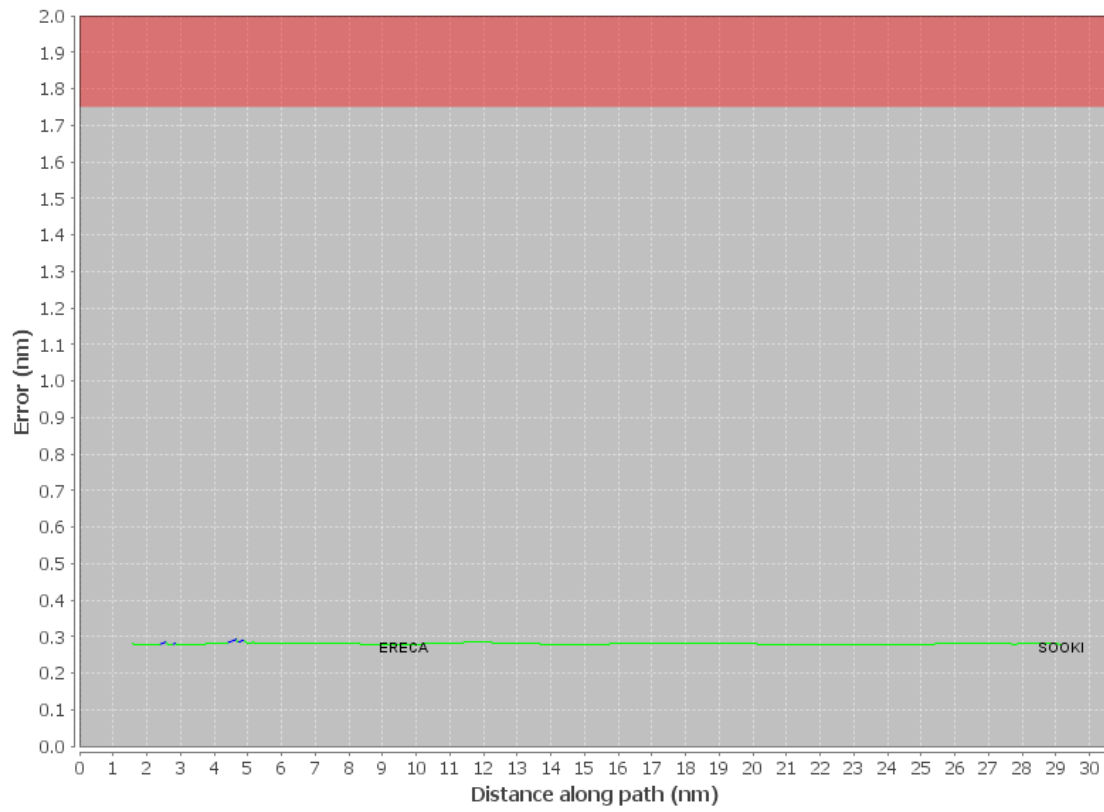
DME DME Assessment Results for SOOKI5 path KDCA:RW04:DER_SOOKI

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N38° 51' 14.590050394", W077° 02' 00.777766154"	N38° 52' 18.843712991", W077° 00' 48.746859843"	1.5253
2	N38° 52' 37.383994699", W076° 59' 45.041414422"	N38° 52' 40.859220959", W076° 59' 33.095619792"	0.1659
3	N38° 52' 45.492327054", W076° 59' 17.167390838"	N38° 52' 46.650509123", W076° 59' 13.185243820"	0.0553
4	N38° 53' 19.064264151", W076° 57' 21.670549072"	N38° 53' 24.849316268", W076° 57' 01.754248802"	0.2765
5	N38° 53' 26.006213268", W076° 56' 57.770881057"	N38° 53' 29.476677408", W076° 56' 45.820562446"	0.1659

Available DMEs by Waypoints		
Waypoint Before	Waypoint After	DME List
KDCA:RW04:DER	ERECa	AML, EMI, DCA, ADW, BAL, OTT
ERECa	SOOKI	AML, EMI, DCA, ADW, BAL, OTT

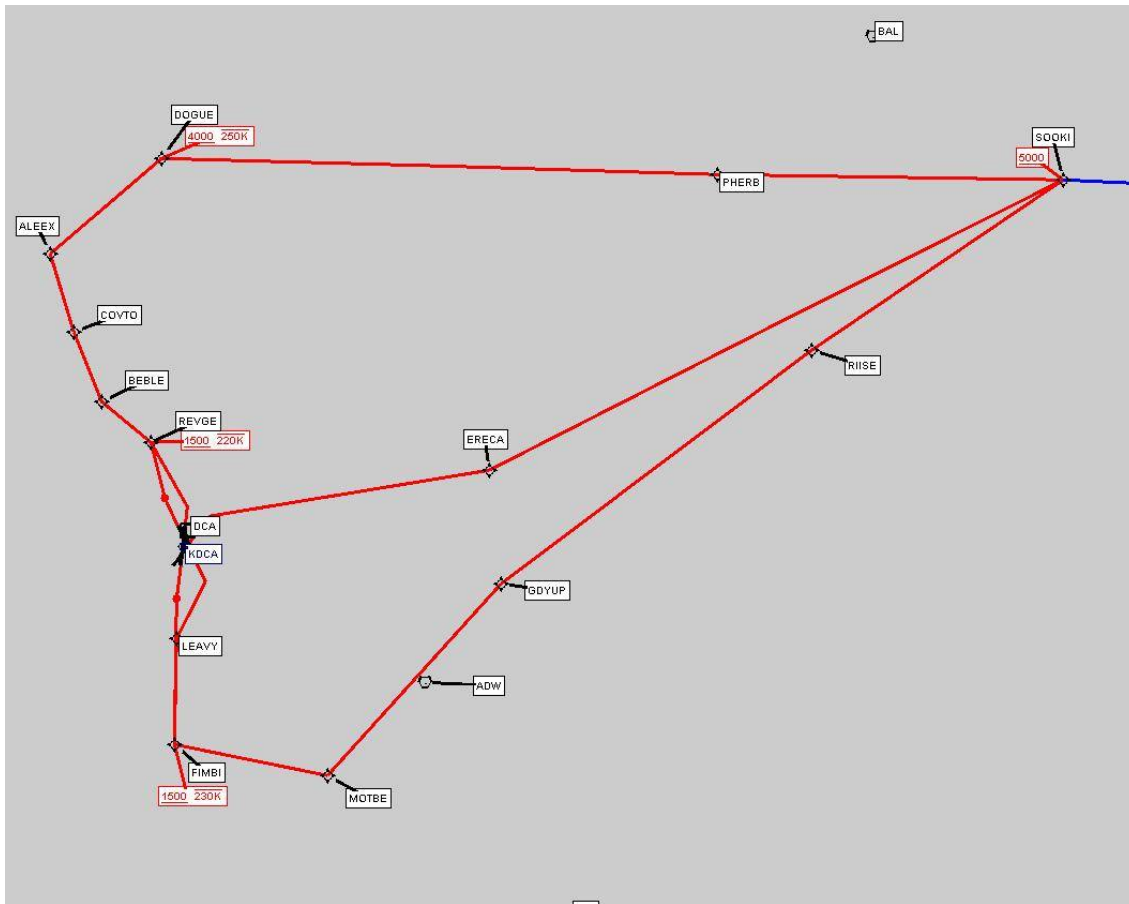
User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	ESVB SBY [IFPA] SBY [IFPA]	N38° 20' 42.020100000", W075° 30' 38.067400000"	12.0 W	40	52.5	111.2	ESVB SBY [IFPA]	
ESV:		Bearing [True]: 313.0° to 333.0° Bearing [Mag]: 325.0° to 345.0°				Arc Distance: Out to 65.0 NM Altitude: 7000.0 to 16000.0 ft		
2	ADW FAA 880073-2 ADW [IFPA]	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	278.9	113.1	ADW FAA 880073-2	
ESV:		Bearing [True]: 308.0° to 332.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 20000.0 ft		

DME Error



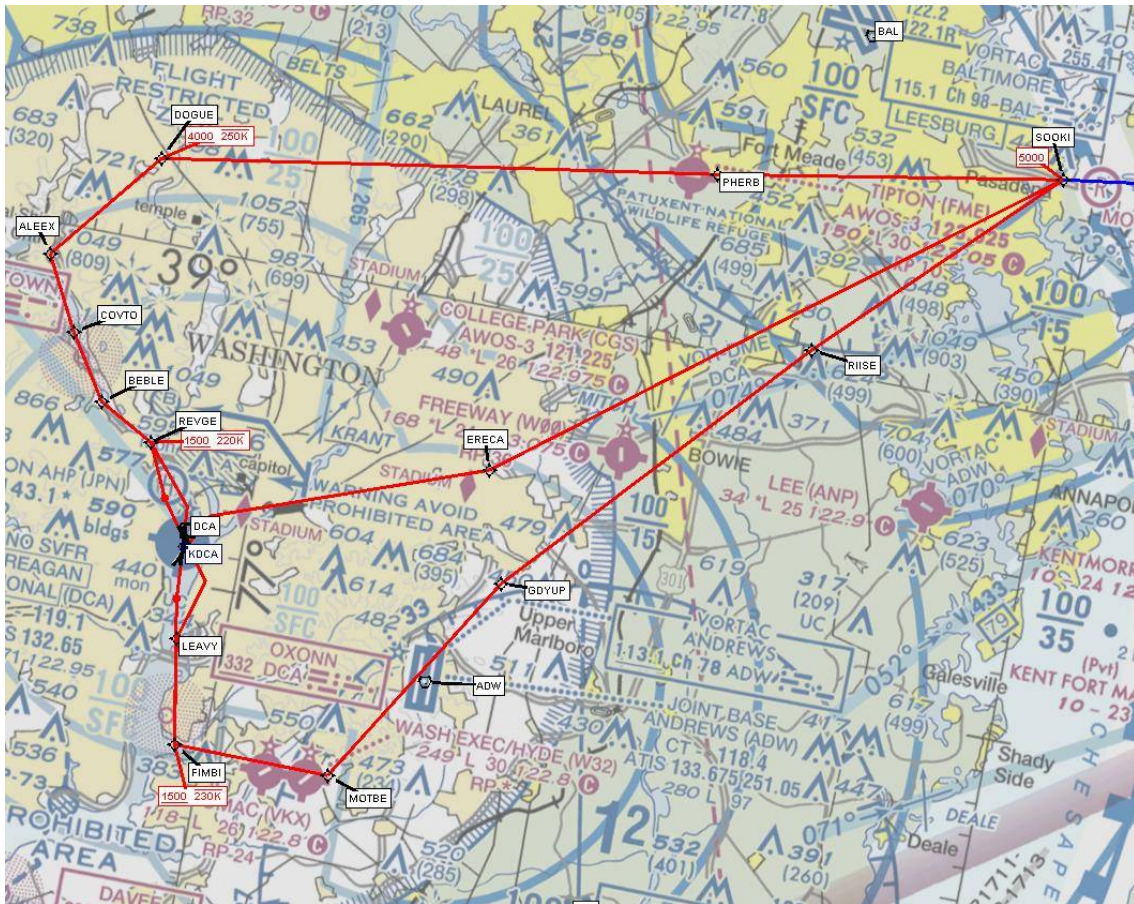
DME DME Assessment Results for SOOKI5 path KDCA:RW04:DER_SOOKI

Graphic Depiction 1

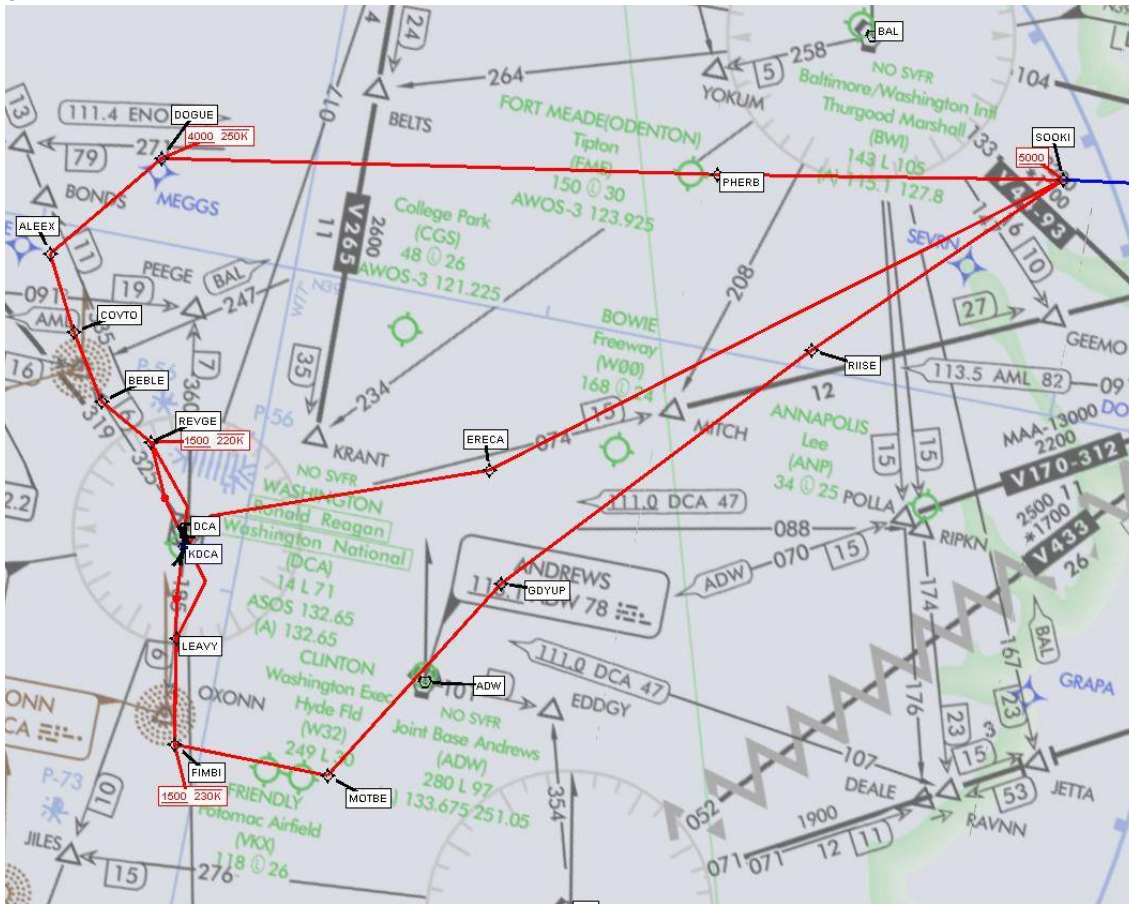


DME DME Assessment Results for SOOKI5 path KDCA:RW04:DER_SOOKI

Graphic Depiction 2

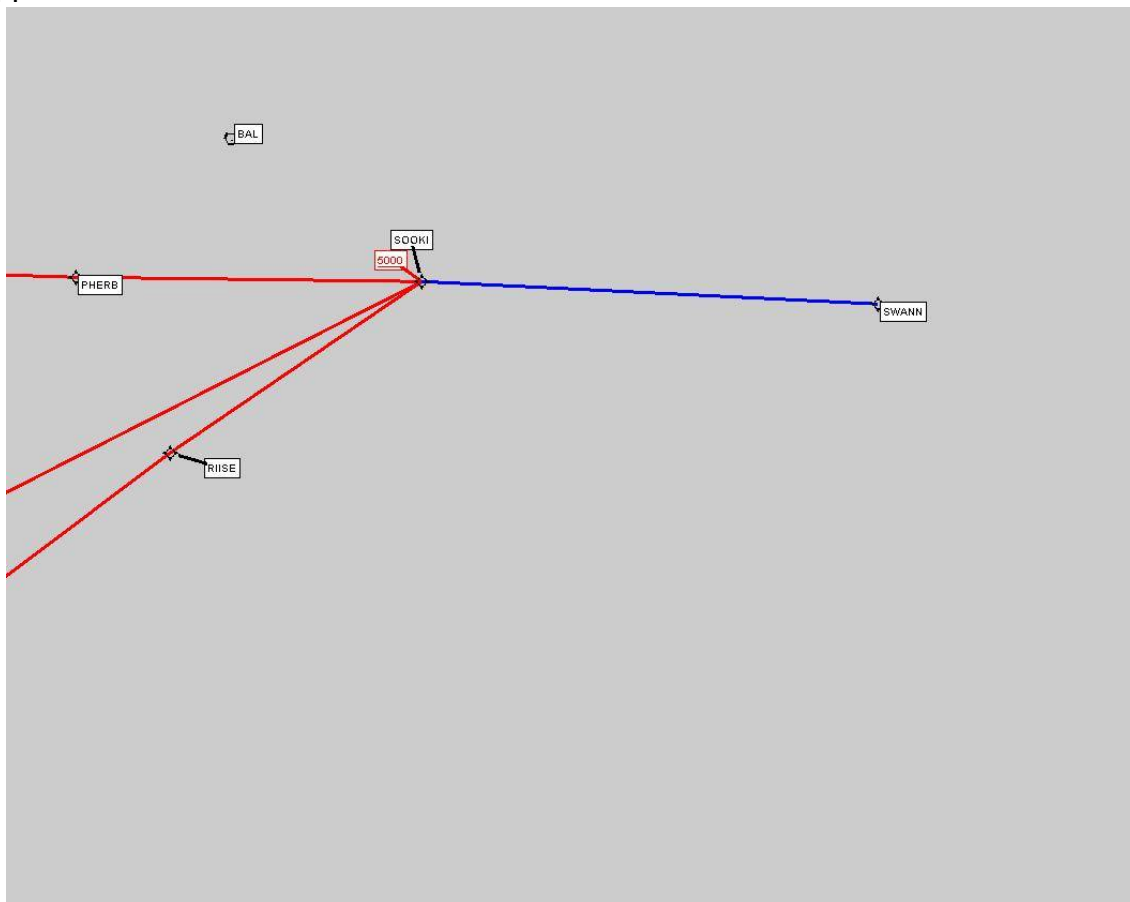


Graphic Depiction 3



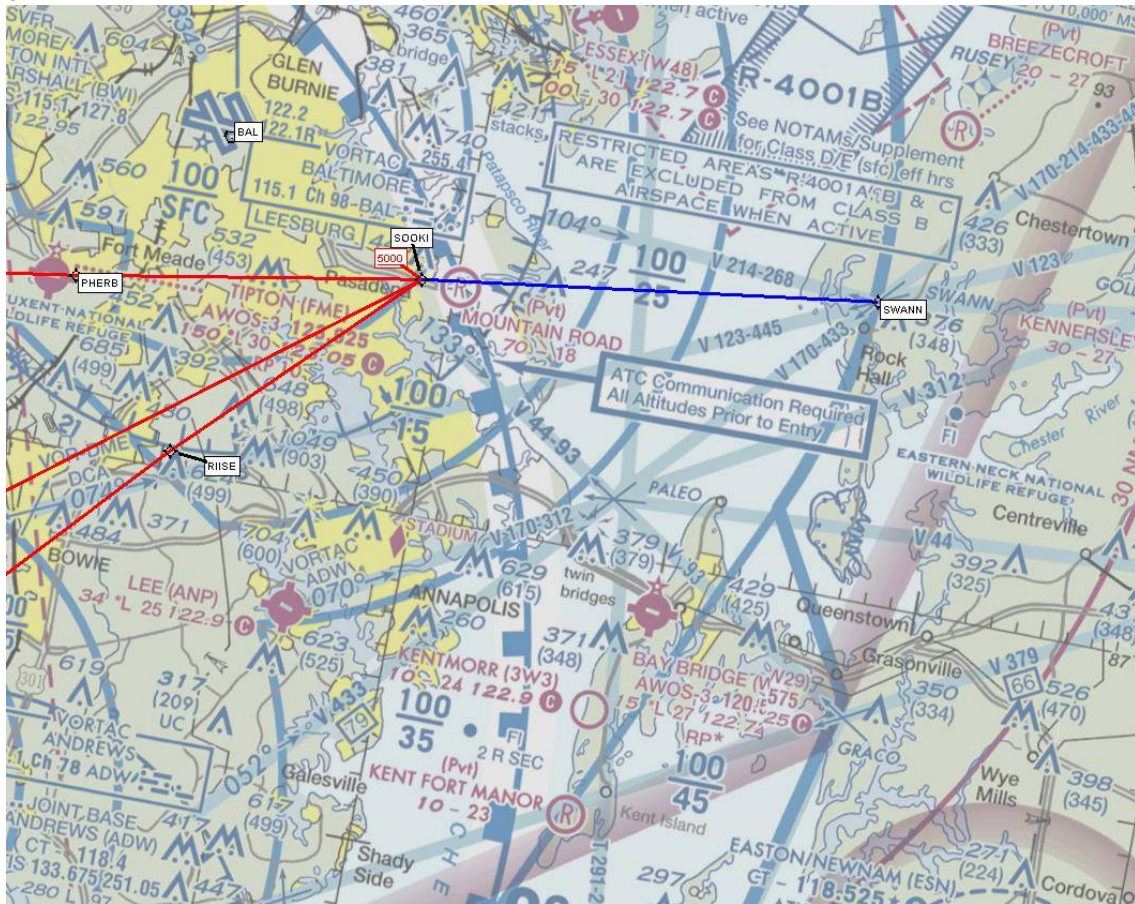
DME DME Assessment Results for SOOKI5 path KDCA:RW04:DER_SOOKI

Graphic Depiction 4

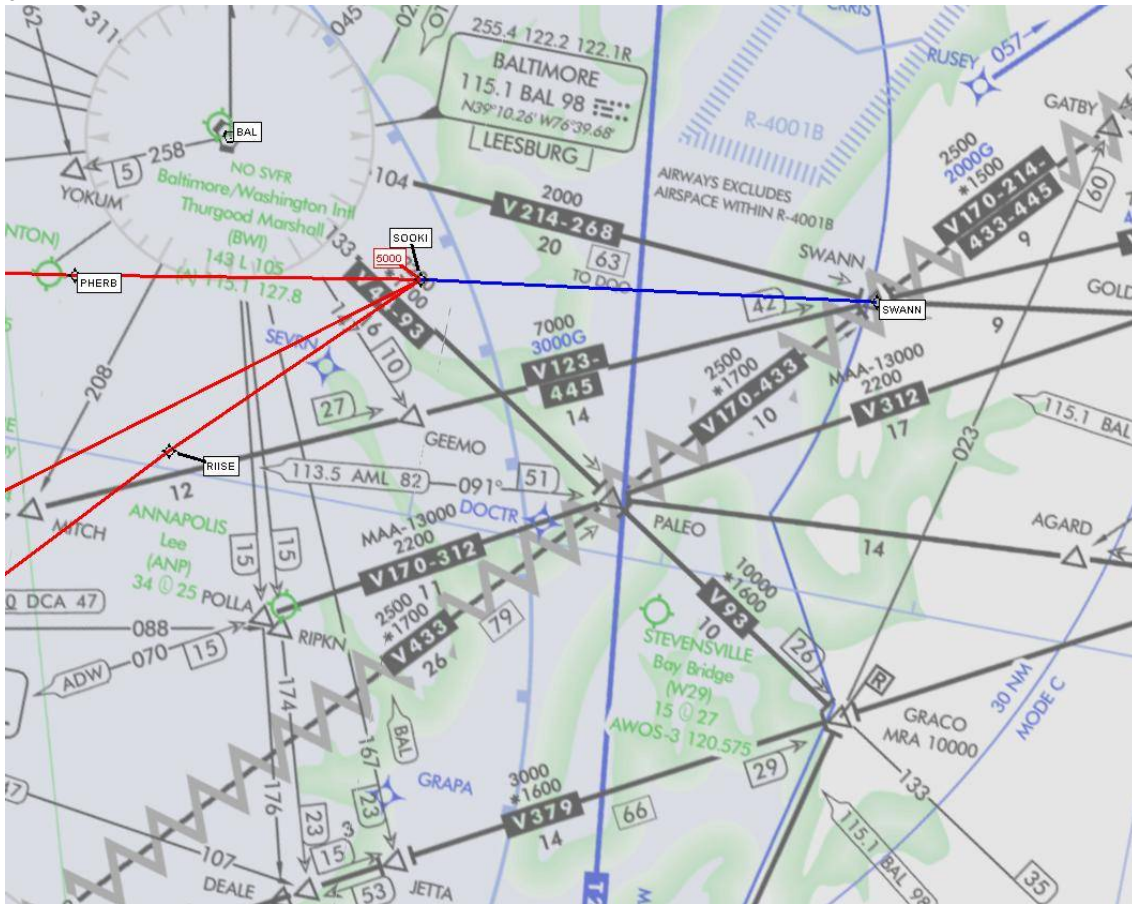


DME DME Assessment Results for SOOKI5 path KDCA:RW04:DER_SOOKI

Graphic Depiction 5

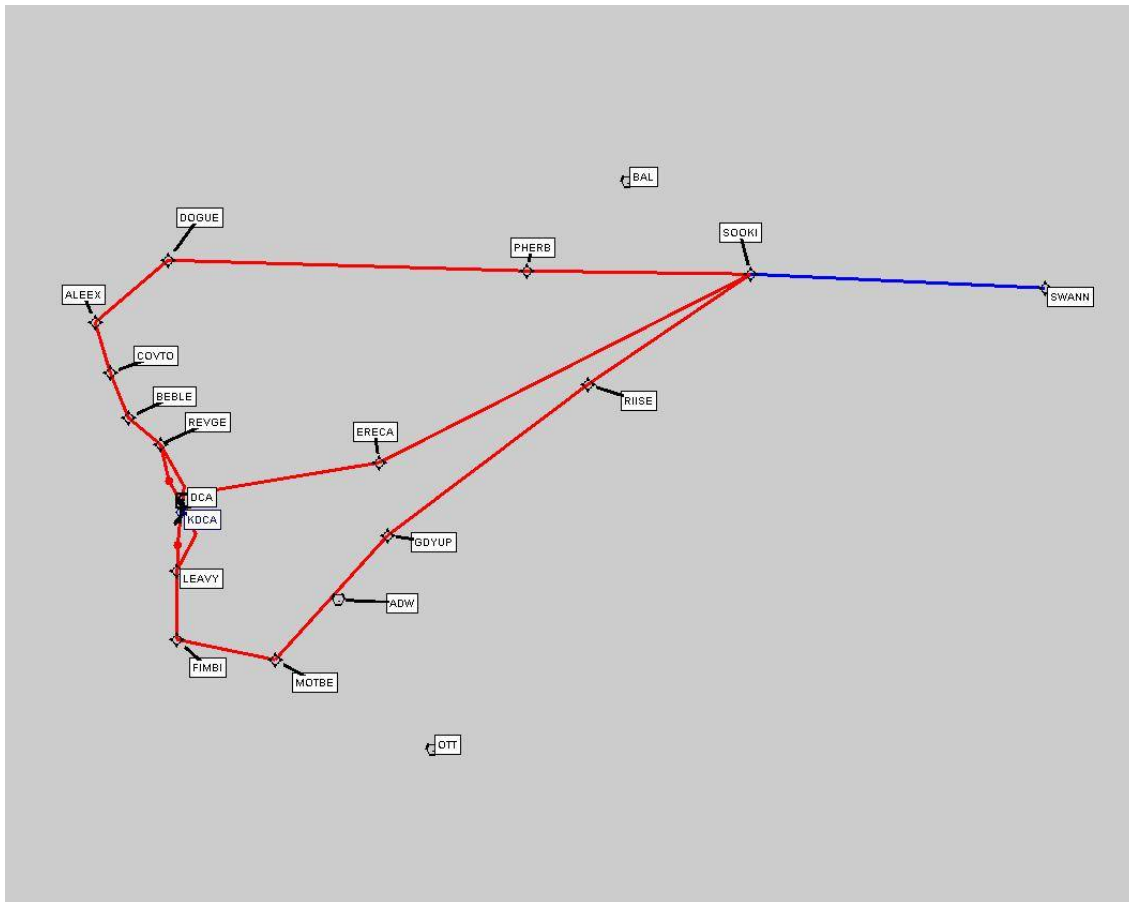


Graphic Depiction 6



DME DME Assessment Results for SOOKI5 path KDCA:RW04:DER_SOOKI

Graphic Depiction 7



DME DME Assessment Results for SOOKI5 path KDCA:RW15:DER_SWANN

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Mason
Project File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SOOKI\SOOKI.tgs
Output File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SOOKI\KDCA [IFPA] SOOKI5 20191113_1318 EST\KDCA-RW15-DER_SWANN\KDCA SOOKI5 SID KDCA RW15 SWANN 20191113_1318 EST.pdf
Procedure Name:	SOOKI5
Software: DmeDmePlugin:	6.0.0
Date/Time:	11/13/2019 13:18 EST
Databases:	DTED.MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KDCA:RW15:DER	WP	N38° 50' 59.294600000", W077° 01' 55.952800000"	10.3	VNAV	130	FLY_BY	TF
LEAVY	WP	N38° 48' 19.330000000", W077° 01' 50.090000000"	1485.4	VNAV	200	FLY_BY	TF
FIMBI	WP	N38° 45' 08.900000000", W077° 01' 05.770000000"	1500	VNAV	230	FLY_BY	TF
MOTBE	WP	N38° 45' 06.250000000", W076° 55' 01.470000000"	2450	VNAV	230	FLY_BY	TF
GDYUP	WP	N38° 51' 49.380000000", W076° 49' 48.100000000"	4021.3	VNAV	230	FLY_BY	TF
RIISE	WP	N39° 00' 33.660000000", W076° 39' 41.130000000"	5000	VNAV	230	FLY_BY	TF
SOOKI	WP	N39° 07' 06.180000000", W076° 31' 20.230000000"	5000	VNAV	250	FLY_BY	TF
SWANN	WP	N39° 09' 05.280000000", W076° 13' 43.940000000"	7768.2	VNAV	250	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 520.0 ft MSL 200.0 ft/NM							

DME DME Assessment Results for SOOKI5 path KDCA:RW15:DER_SWANN

Flyability	
Flight Type:	SID
Selected Airport:	KDCA [IFPA]
Climb Gradient:	500.0 ft/NM up to 520.0 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
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:	None

DME DME Assessment Results for SOOKI5 path KDCA:RW15:DER_SWANN

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OTT	N38° 42' 21.135200000", W076° 44' 41.085400000"	10.0 W	40	L	IFPA	NO	Enabled	89.5 %	91 %
2	ENO	N39° 13' 53.928100000", W075° 30' 57.491800000"	9.0 W	40	L	IFPA	NO	Enabled	10.6 %	11.6 %
3	BAL	N39° 10' 15.828300000", W076° 39' 40.522500000"	11.0 W	40	L	IFPA	NO	Enabled	88.3 %	89.8 %
4	SBY	N38° 20' 42.020100000", W075° 30' 38.067400000"	12.0 W	40	L	IFPA	NO	Enabled	3.2 %	3.5 %
5	PXT	N38° 17' 16.282500000", W076° 24' 00.831500000"	10.0 W	40	L	IFPA	NO	Enabled	1.8 %	1.8 %
6	BRV	N38° 20' 10.526400000", W077° 21' 10.315900000"	9.0 W	40	L	IFPA	NO	Enabled	25 %	24.1 %
7	AML	N38° 56' 04.538000000", W077° 28' 00.128500000"	8.0 W	40	L	IFPA	NO	Enabled	34.3 %	34.5 %
8	DCA	N38° 51' 34.030100000", W077° 02' 11.170000000"	9.0 W	40	L	IFPA	NO	Enabled	77.4 %	79.1 %
9	ADW	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	L	IFPA	NO	Enabled	58.2 %	60.6 %
10	EMI	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	H	IFPA	NO	Enabled	48.9 %	50.5 %

DME DME Assessment Results for SOOKI5 path KDCA:RW15:DER_SWANN

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.7	BRV	OTT				
2.0	BRV	OTT	BAL			
2.7	BRV	OTT	BAL	DCA		
3.0	BRV	OTT	BAL			
7.1	OTT	BAL	BRV	DCA		
10.2	OTT	BAL	DCA			
10.9	OTT	BAL	PXT	DCA		
11.0	OTT	BAL	BRV	DCA		
11.2	AML	BAL	OTT	BRV	DCA	
13.7	BAL	DCA	AML			
13.8	BAL	DCA	AML	OTT		
14.0	BAL	DCA	AML			
14.1	BAL	DCA	AML	OTT		
14.2	BAL	DCA	AML			
14.3	BAL	DCA	AML	OTT		
14.4	BAL	DCA	AML			
14.8	BAL	DCA	AML	OTT		
15.1	BAL	DCA	AML	OTT	PXT	
15.1	BAL	DCA	AML			
15.2	BAL	DCA	AML	OTT		
15.3	BAL	DCA	AML			
15.5	BAL	DCA	AML	PXT		
15.6	BAL	DCA	AML	OTT	PXT	
15.6	BAL	DCA	AML	PXT		
15.7	BAL	DCA	AML	OTT		
15.8	BAL	DCA	AML	OTT	PXT	
15.8	BAL	DCA	AML	PXT		
15.9	BAL	DCA	AML	OTT		
16.0	BAL	DCA	AML	PXT		
16.2	BAL	DCA	AML	OTT		
16.2	BAL	DCA	AML	BRV		
16.4	AML	BAL	DCA	BRV	OTT	
16.5	AML	BAL	DCA	BRV		
16.5	AML	BAL	DCA	BRV	OTT	
16.7	AML	BAL	DCA	BRV		
16.9	AML	BAL	DCA	BRV	OTT	
17.0	AML	BAL	DCA	BRV		
17.1	AML	BAL	DCA	BRV	OTT	
17.2	AML	BAL	DCA	BRV		
17.4	AML	BAL	DCA	BRV	OTT	
17.6	AML	BAL	DCA	BRV		
17.8	AML	BAL	DCA	BRV	OTT	
18.1	AML	BAL	DCA	OTT		
21.1	OTT	DCA	AML	BAL	ADW	
29.7	DCA	EMI	ADW	OTT		
31.1	DCA	EMI	ADW	BAL	OTT	
36.5	DCA	EMI	ADW	OTT		
38.5	BAL	ADW	DCA	EMI	OTT	
49.2	OTT	BAL	ADW	ENO		
51.7	SBY	ADW	OTT	ENO	BAL	

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N38° 50' 57.616443424", W077° 01' 54.314826284"	N38° 49' 29.287199241", W077° 01' 23.927100640"	1.701

DME DME Assessment Results for SOOKI5 path KDCA:RW15:DER_SWANN

Available DMEs by Waypoints

Waypoint Before	Waypoint After	DME List
KDCA:RW15:DER	LEAVY	DCA, BRV, BAL, OTT
LEAVY	FIMBI	BRV, BAL, OTT
FIMBI	MOTBE	DCA, BRV, BAL, PXT, OTT
MOTBE	GDYUP	AML, DCA, BRV, BAL, PXT, OTT
GDYUP	RIISE	AML, EMI, DCA, ADW, BAL, OTT
RIISE	SOOKI	EMI, DCA, ADW, BAL, OTT
SOOKI	SWANN	EMI, DCA, ADW, ENO, SBY, BAL, OTT

User Data Files

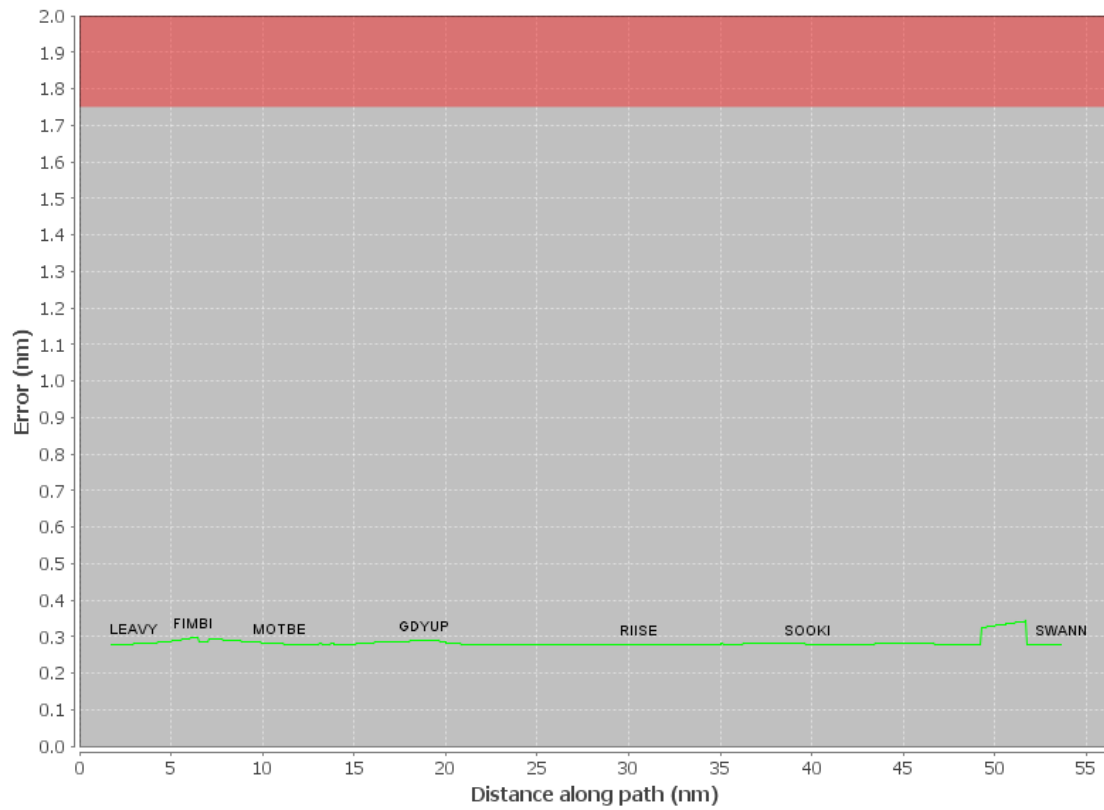
#	File Name
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User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	ESVB SBY [IFPA] SBY [IFPA]	N38° 20' 42.020100000", W075° 30' 38.067400000"	12.0 W	40	52.5	111.2	ESVB SBY [IFPA]	
ESV:		Bearing [True]: 313.0° to 333.0° Bearing [Mag]: 325.0° to 345.0°				Arc Distance: Out to 65.0 NM Altitude: 7000.0 to 16000.0 ft		
2	ADW FAA 880073-2 ADW [IFPA]	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	278.9	113.1	ADW FAA 880073-2	
ESV:		Bearing [True]: 308.0° to 332.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 20000.0 ft		

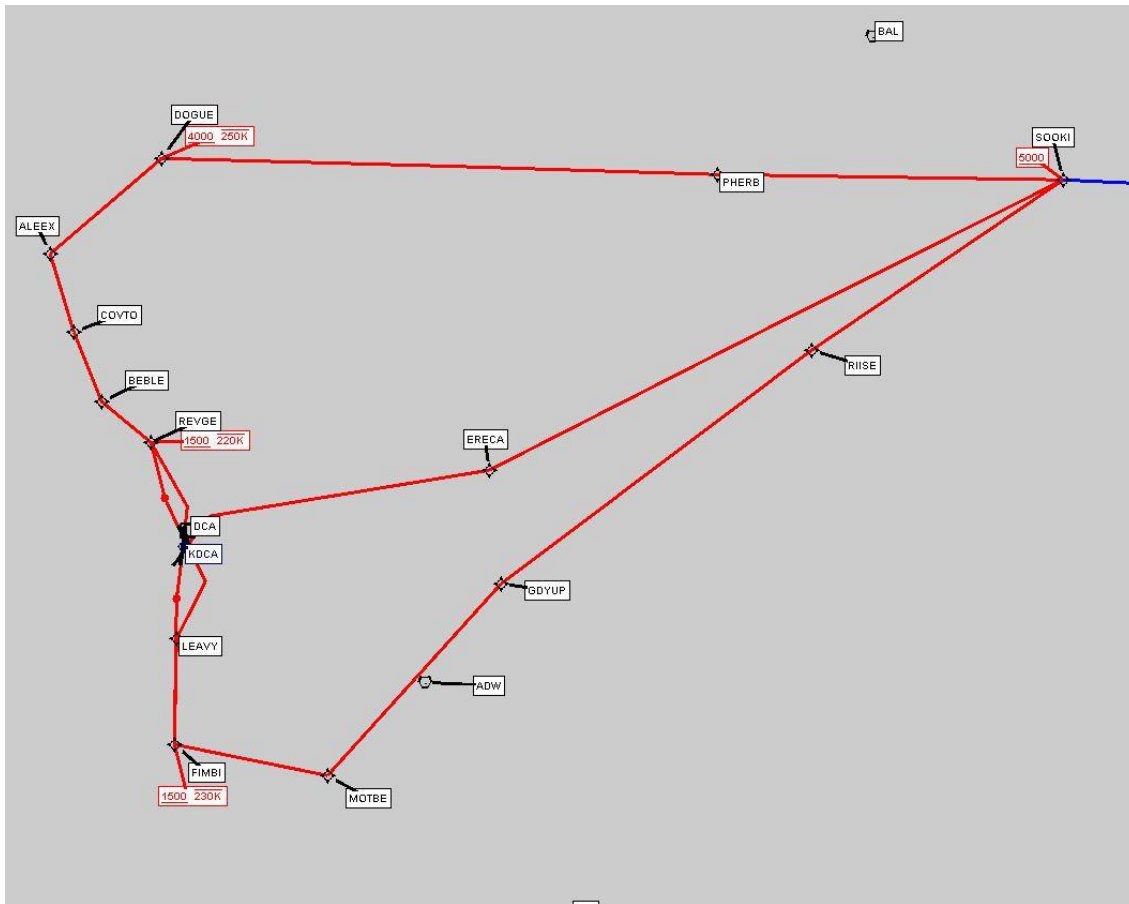
DME DME Assessment Results for SOOKI5 path KDCA:RW15:DER_SWANN

DME Error

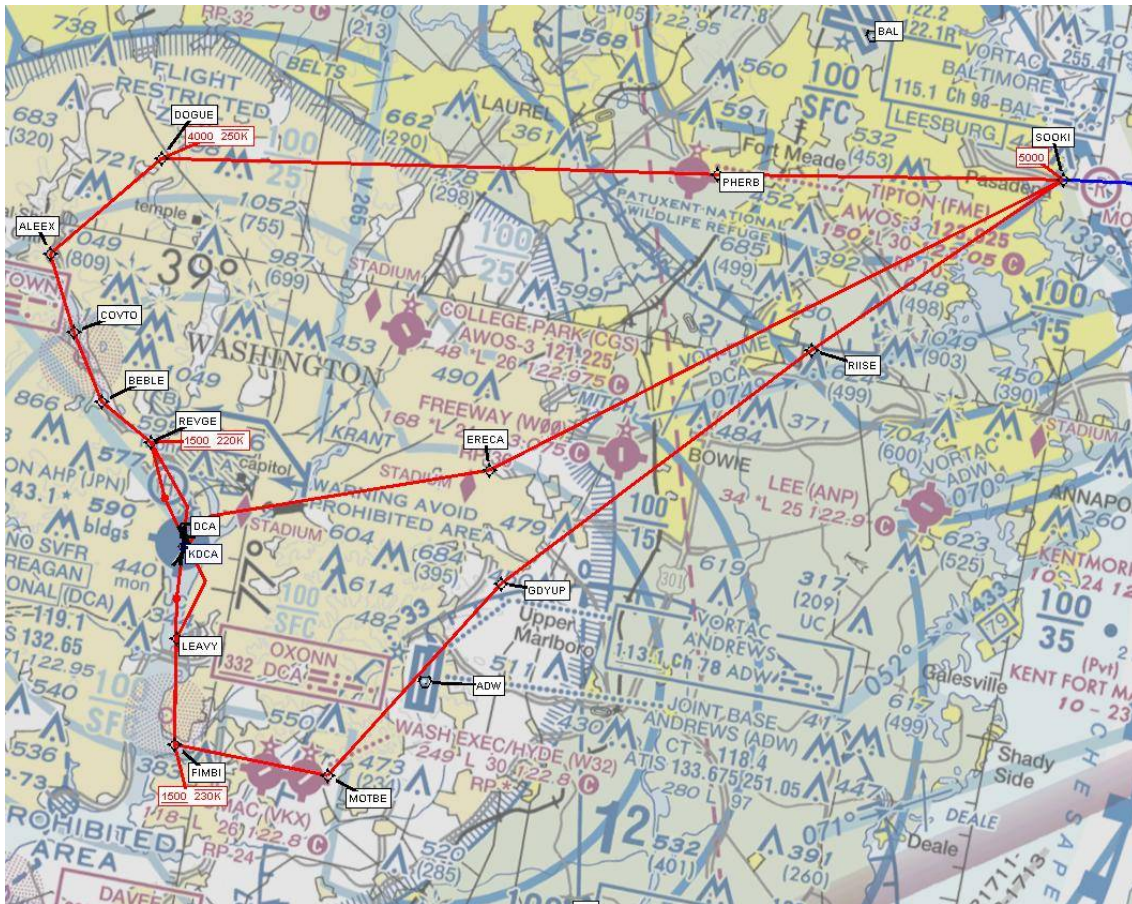


DME DME Assessment Results for SOOKI5 path KDCA:RW15:DER_SWANN

Graphic Depiction 1

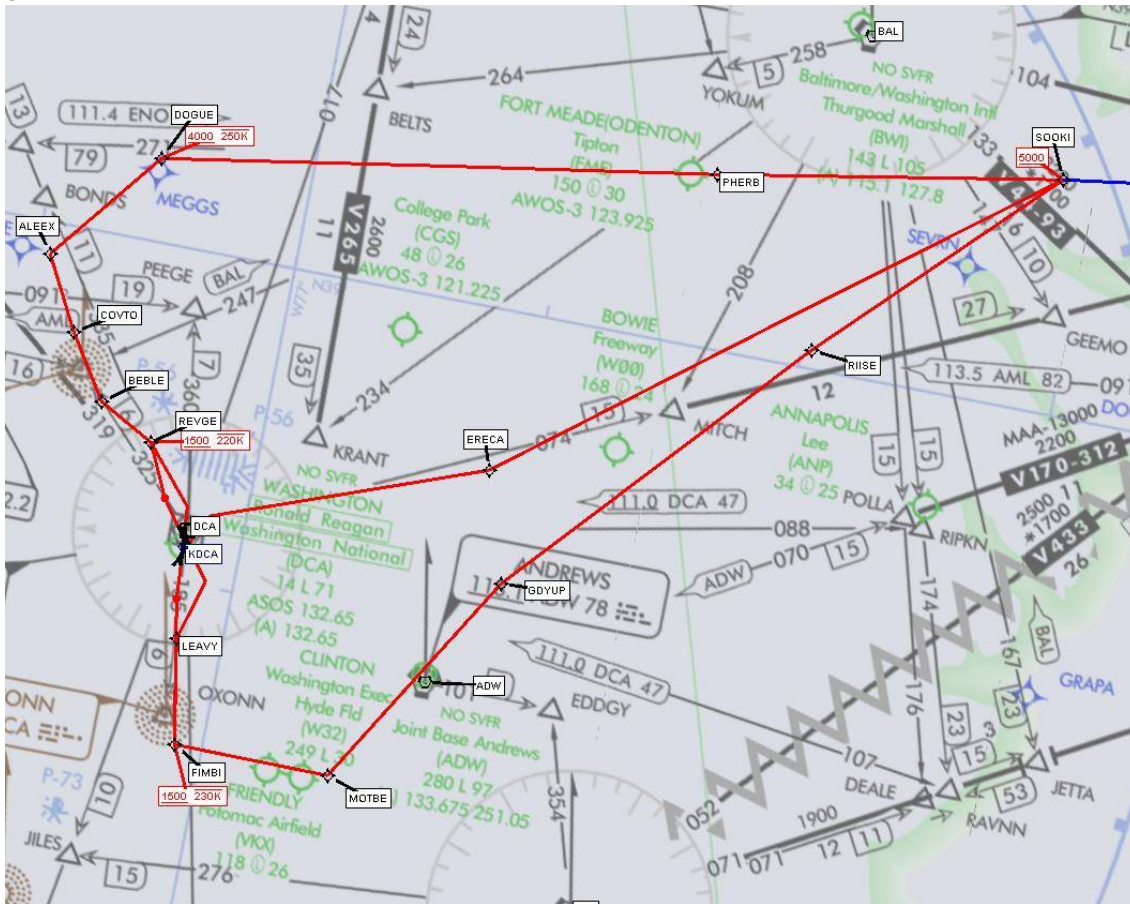


Graphic Depiction 2



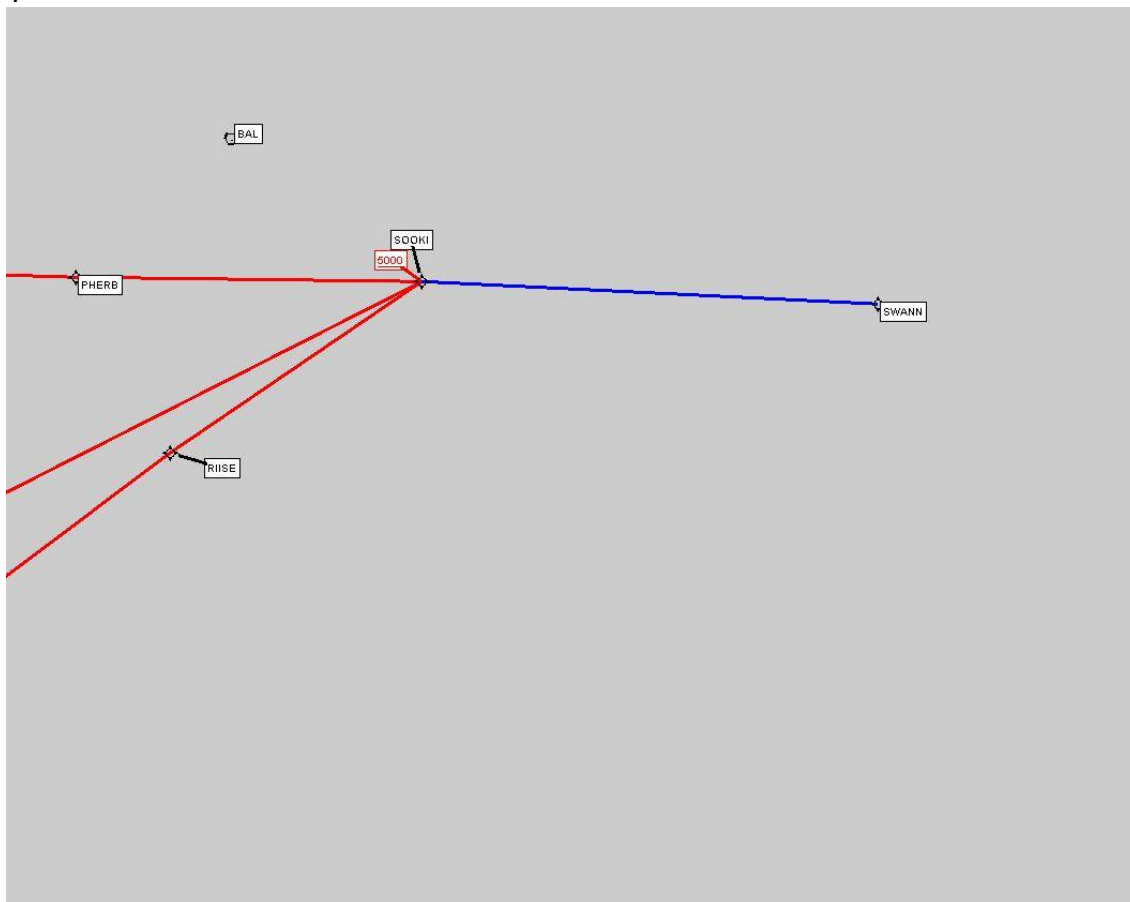
DME DME Assessment Results for SOOKI5 path KDCA:RW15:DER_SWANN

Graphic Depiction 3



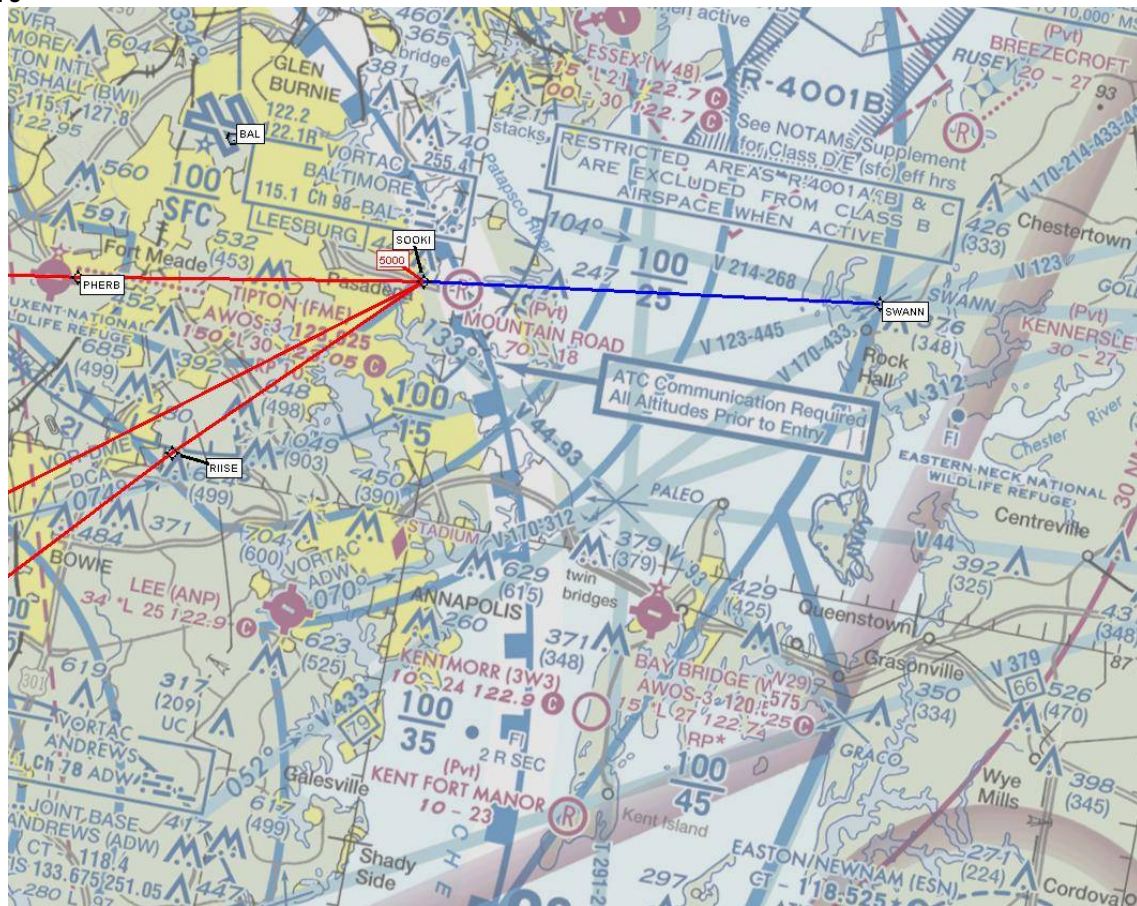
DME DME Assessment Results for SOOKI5 path KDCA:RW15:DER_SWANN

Graphic Depiction 4

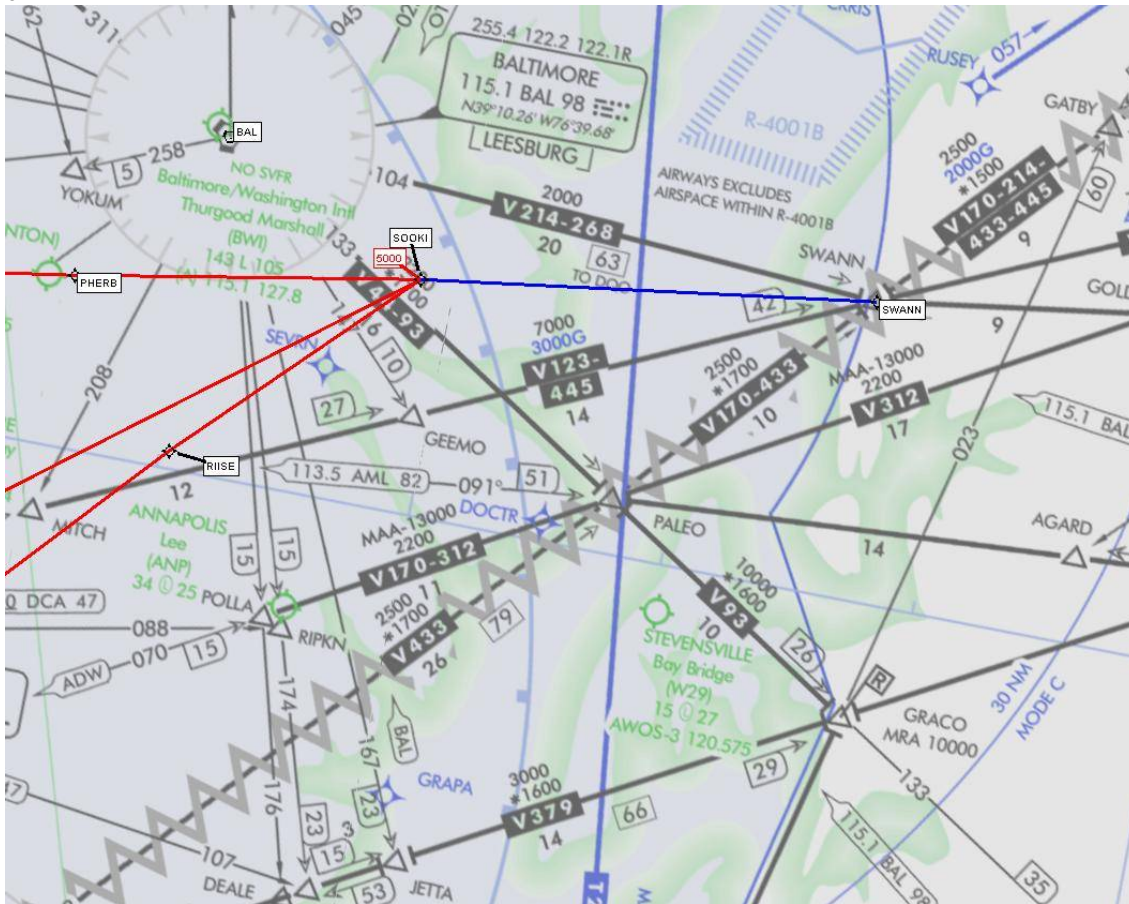


DME DME Assessment Results for SOOKI5 path KDCA:RW15:DER_SWANN

Graphic Depiction 5

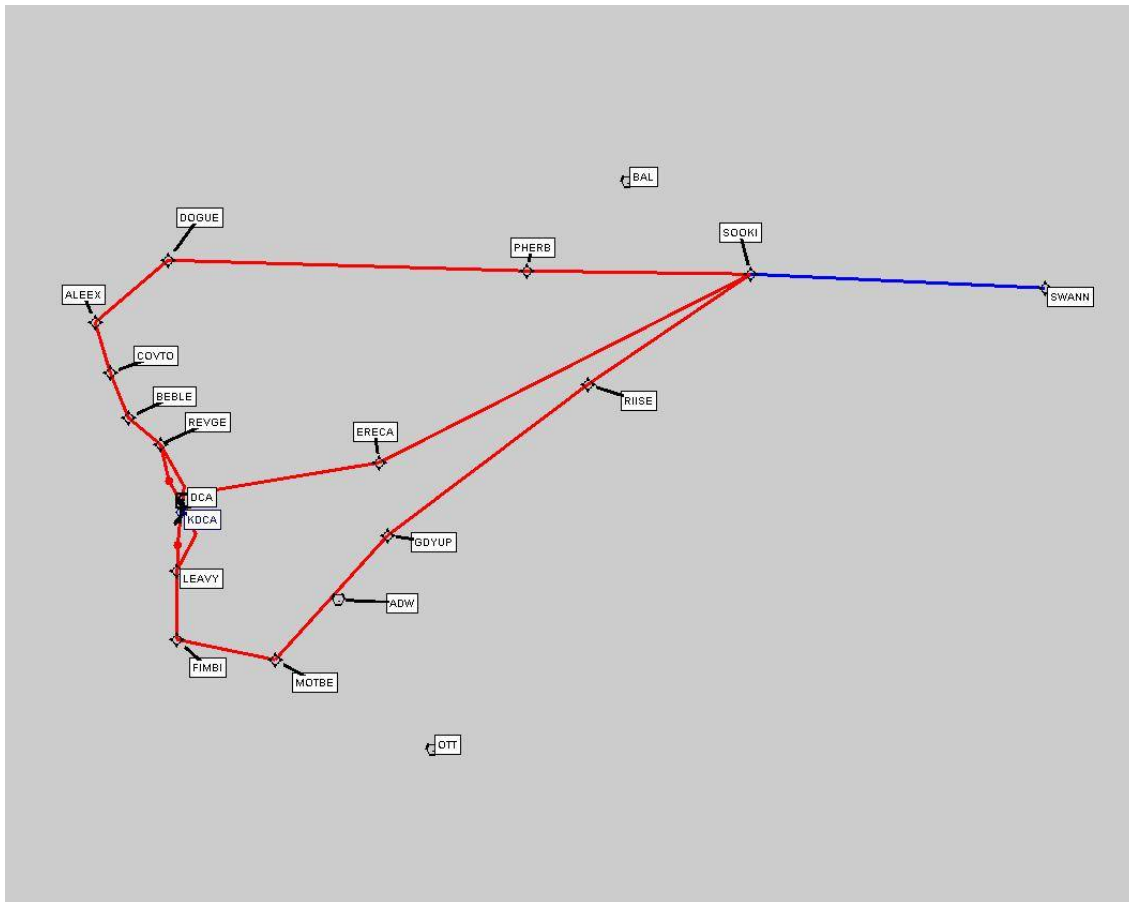


Graphic Depiction 6



DME DME Assessment Results for SOOKI5 path KDCA:RW15:DER_SWANN

Graphic Depiction 7



DME DME Assessment Results for SOOKI5 path KDCA:RW19:DER_FIMBI

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Mason
Project File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SOOKI\SOOKI.tgs
Output File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SOOKI\KDCA [IFPA] SOOKI5 20191113_1318 EST\KDCA-RW19-DER_FIMBI\KDCA SOOKI5 SID KDCA RW19 FIMBI 20191113_1318 EST.pdf
Procedure Name:	SOOKI5
Software: DmeDmePlugin:	6.0.0
Date/Time:	11/13/2019 13:18 EST
Databases:	DTED.MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KDCA:RW19:DER	WP	N38° 50' 29.645500000", W077° 02' 12.294400000"	11.4	VNAV	130	FLY_OVER	TF
FIMBI	WP	N38° 45' 08.900000000", W077° 01' 05.770000000"	1500	VNAV	230	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 515.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KDCA [IFPA]
Climb Gradient:	500.0 ft/NM up to 515.0 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 SOOKI5 path KDCA:RW19:DER_FIMBI

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
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:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OTT	N38° 42' 21.135200000", W076° 44' 41.085400000"	10.0 W	40	L	IFPA	NO	Enabled	58.8 %	65.9 %
2	BAL	N39° 10' 15.828300000", W076° 39' 40.522500000"	11.0 W	40	L	IFPA	NO	Enabled	58.8 %	65.9 %
3	BRV	N38° 20' 10.526400000", W077° 21' 10.315900000"	9.0 W	40	L	IFPA	NO	Enabled	44.2 %	51.8 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.8	OTT	BAL				
2.6	BRV	OTT	BAL			

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N38° 50' 27.491810194", W077° 02' 12.077669869"	N38° 48' 39.622223834", W077° 01' 54.676031951"	1.8137

Available DMEs by Waypoints		
Waypoint Before	Waypoint After	DME List
KDCA:RW19:DER	FIMBI	BRV, BAL, OTT

DME DME Assessment Results for SOOKI5 path KDCA:RW19:DER_FIMBI

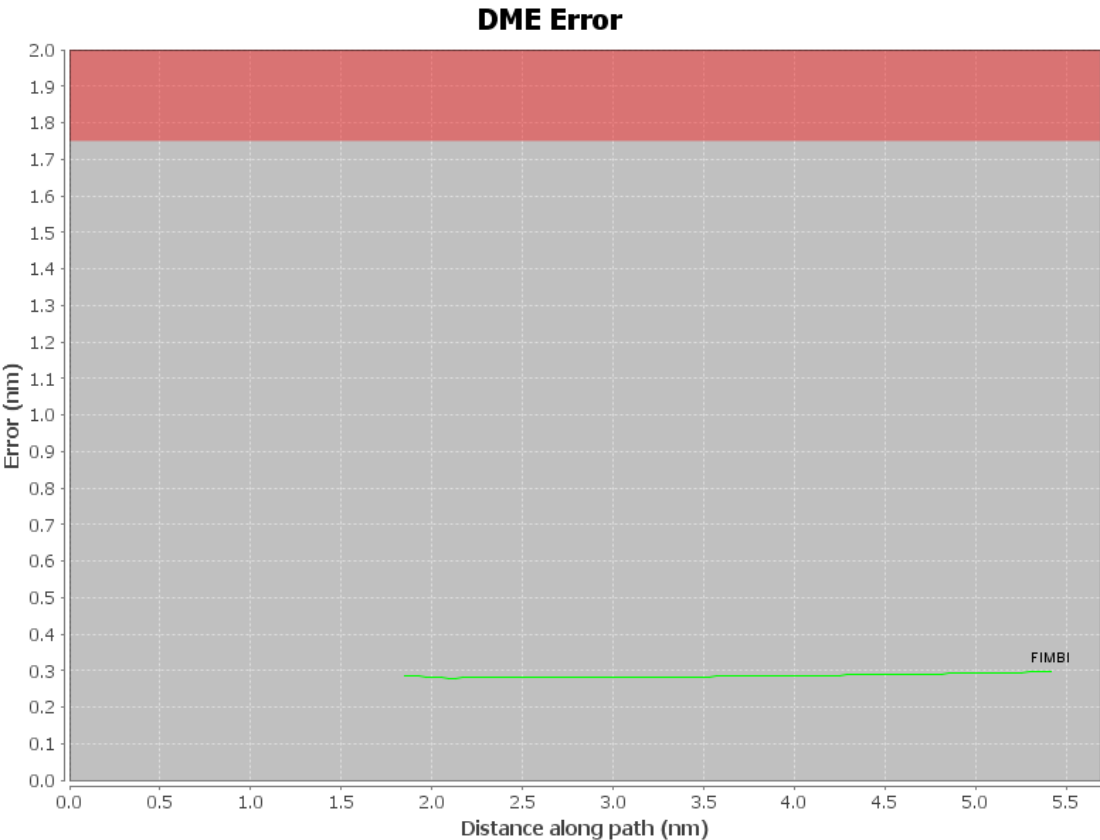
User Data Files

File Name

None

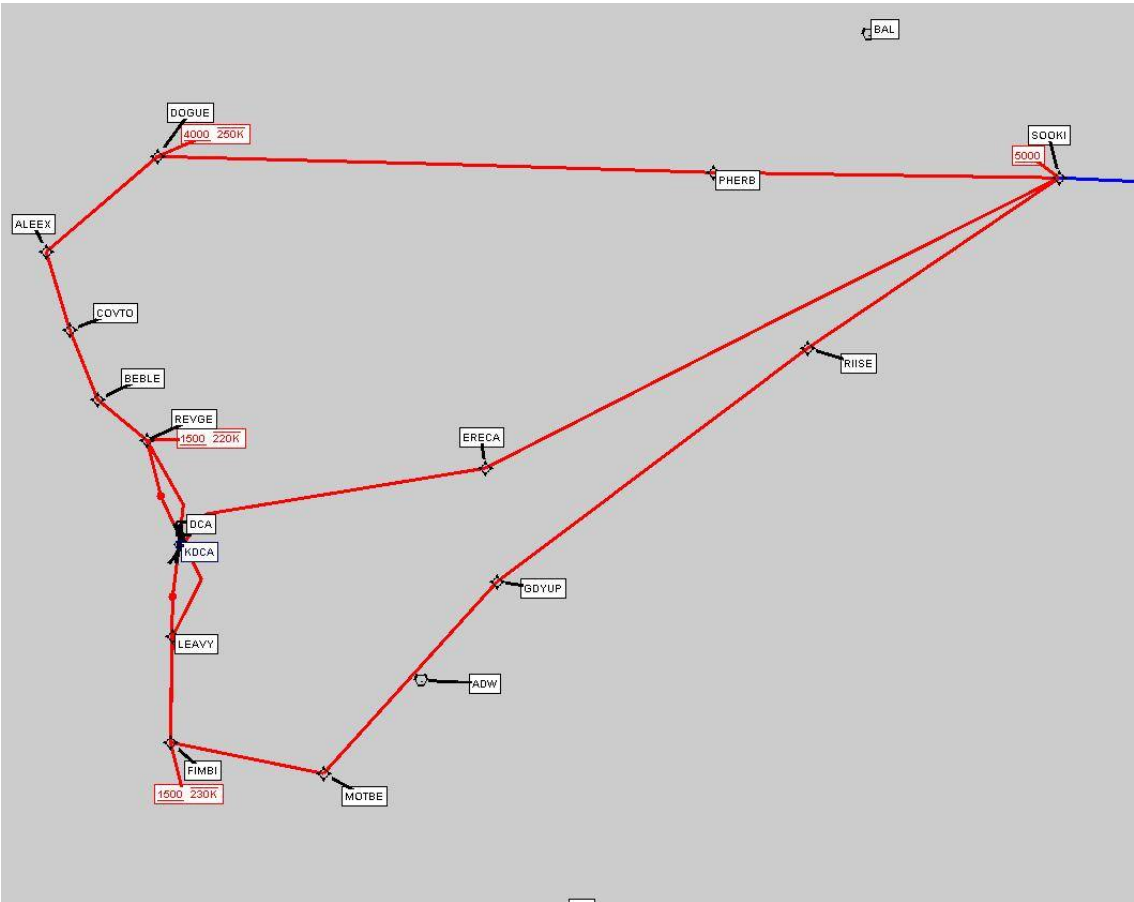
User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	ESVB SBY [IFPA] SBY [IFPA]	N38° 20' 42.020100000", W075° 30' 38.067400000"	12.0 W	40	52.5	111.2	ESVB SBY [IFPA]	
ESV:		Bearing [True]: 313.0° to 333.0° Bearing [Mag]: 325.0° to 345.0°				Arc Distance: Out to 65.0 NM Altitude: 7000.0 to 16000.0 ft		
2	ADW FAA 880073-2 ADW [IFPA]	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	278.9	113.1	ADW FAA 880073-2	
ESV:		Bearing [True]: 308.0° to 332.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 20000.0 ft		



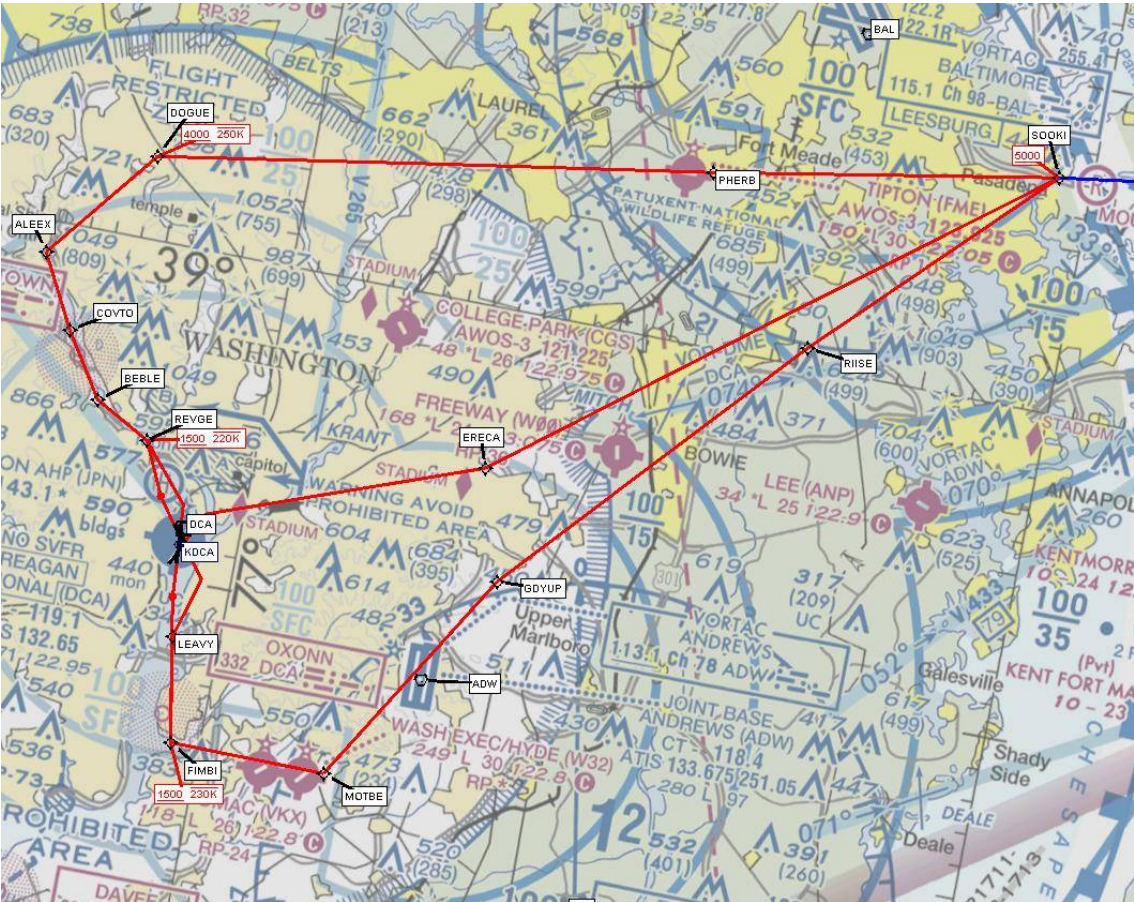
DME DME Assessment Results for SOOKI5 path KDCA:RW19:DER_FIMBI

Graphic Depiction 1



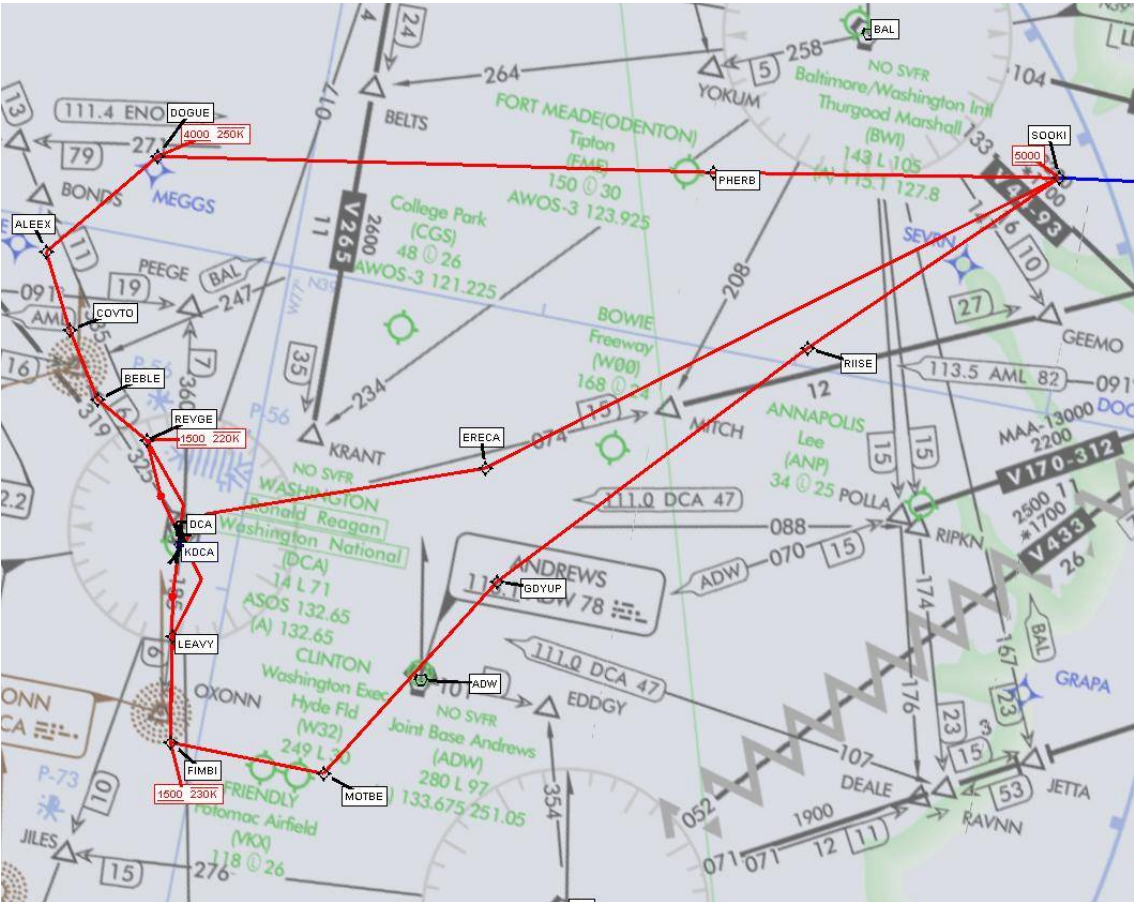
DME DME Assessment Results for SOOKI5 path KDCA:RW19:DER_FIMBI

Graphic Depiction 2



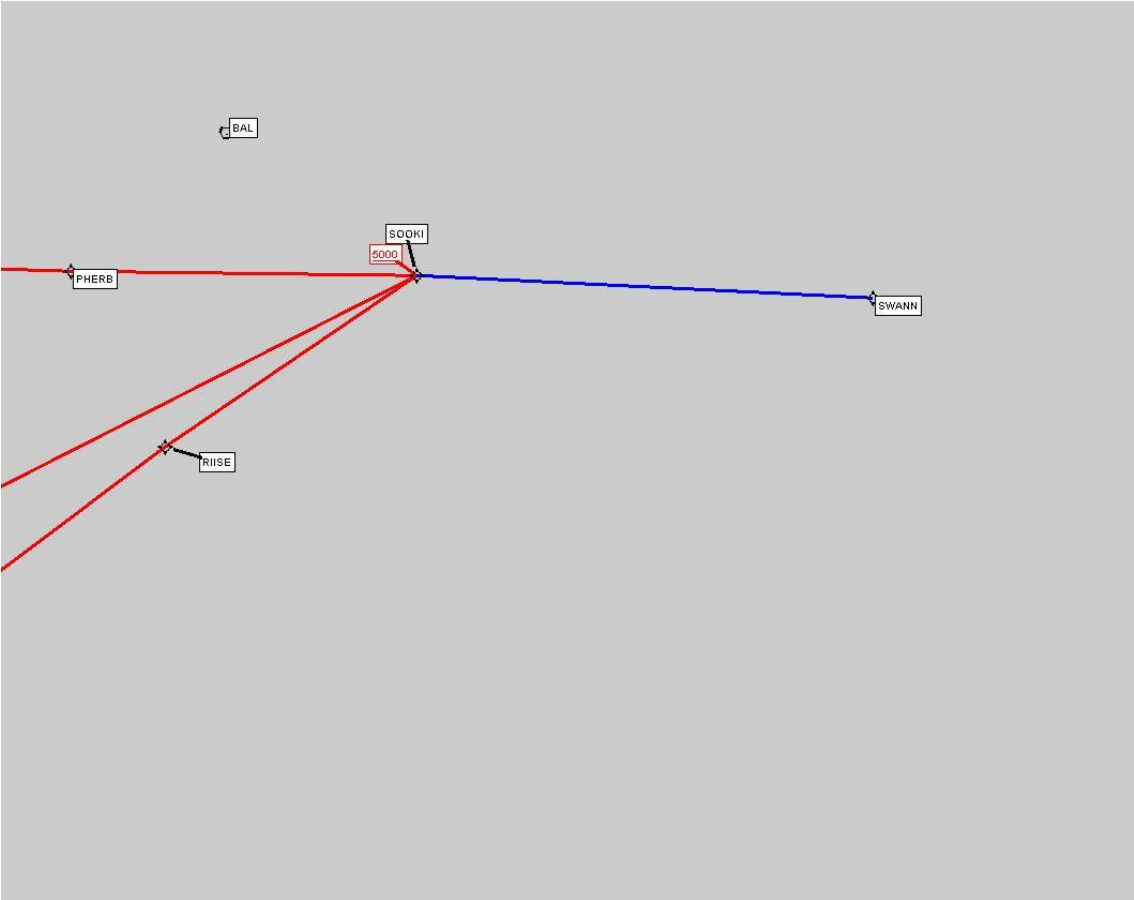
DME DME Assessment Results for SOOKI5 path KDCA:RW19:DER_FIMBI

Graphic Depiction 3



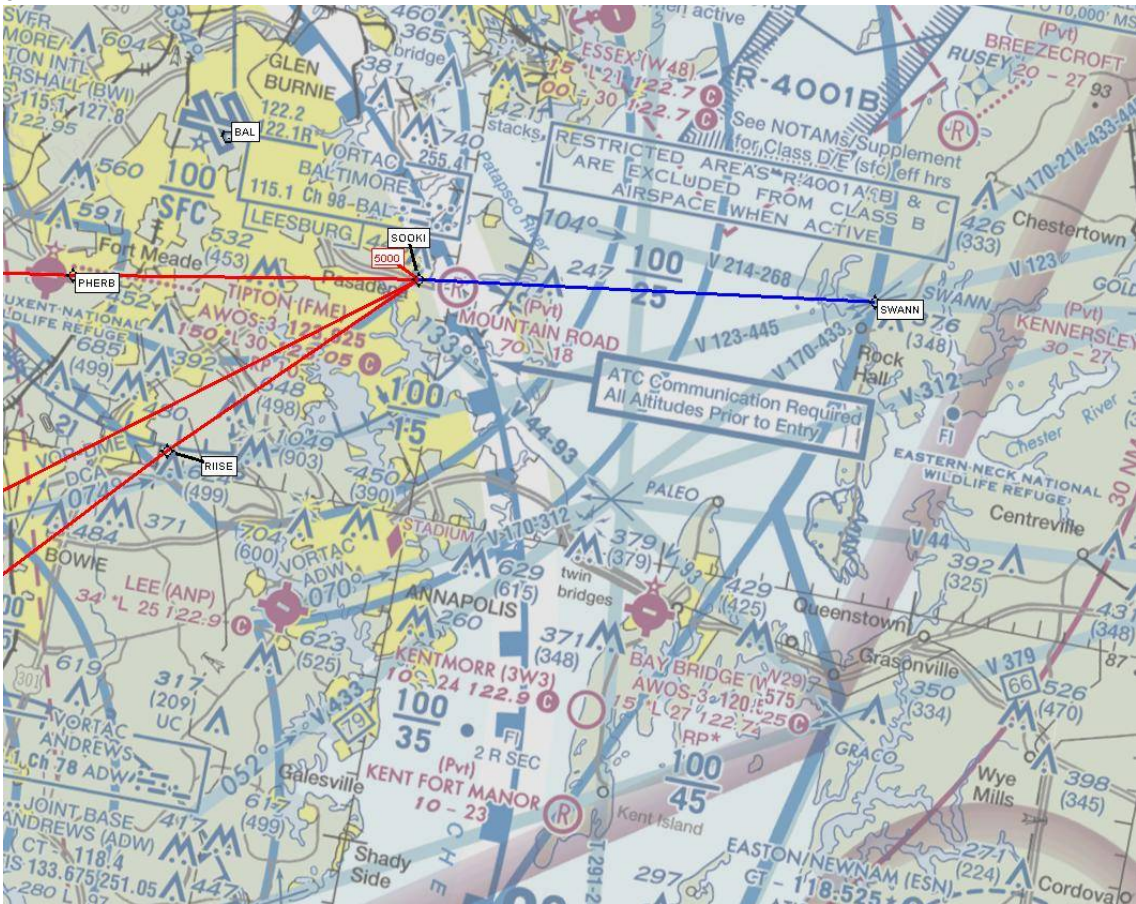
DME DME Assessment Results for SOOKI5 path KDCA:RW19:DER_FIMBI

Graphic Depiction 4



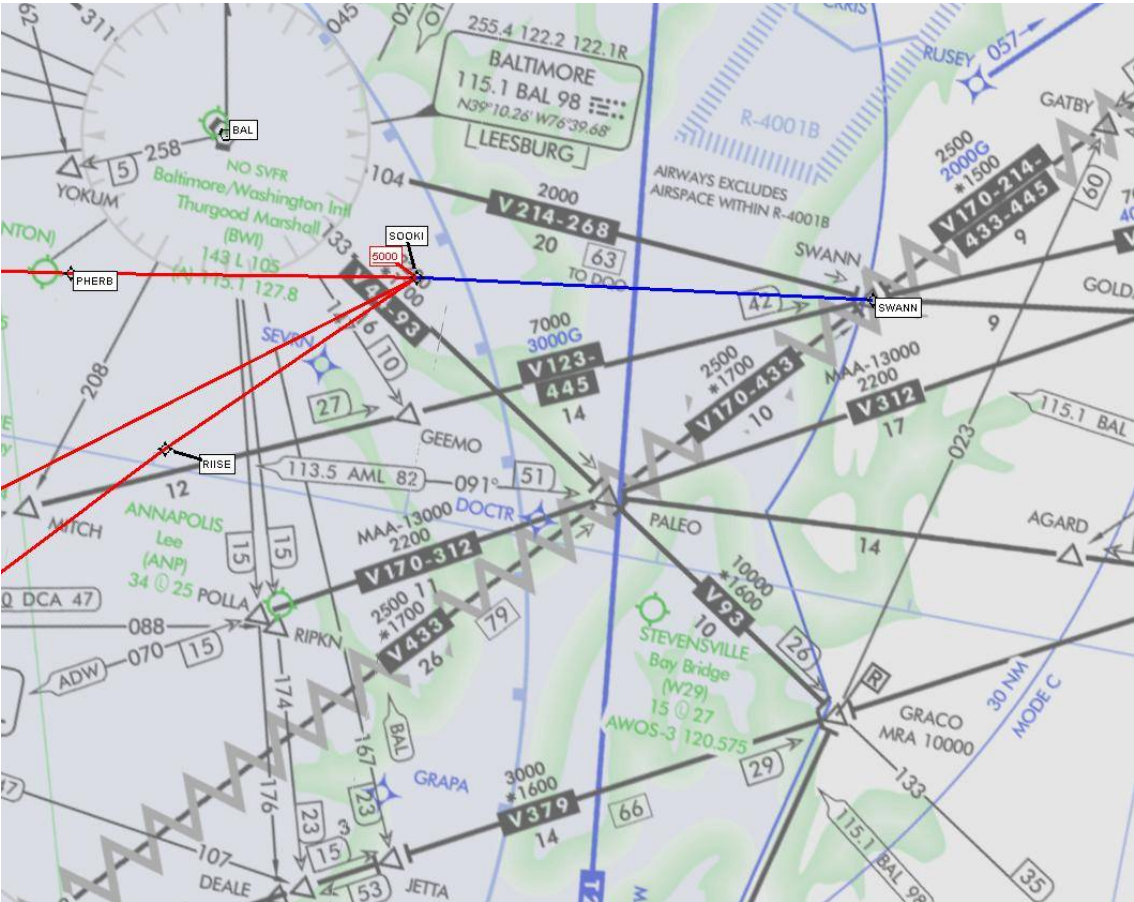
DME DME Assessment Results for SOOKI5 path KDCA:RW19:DER_FIMBI

Graphic Depiction 5



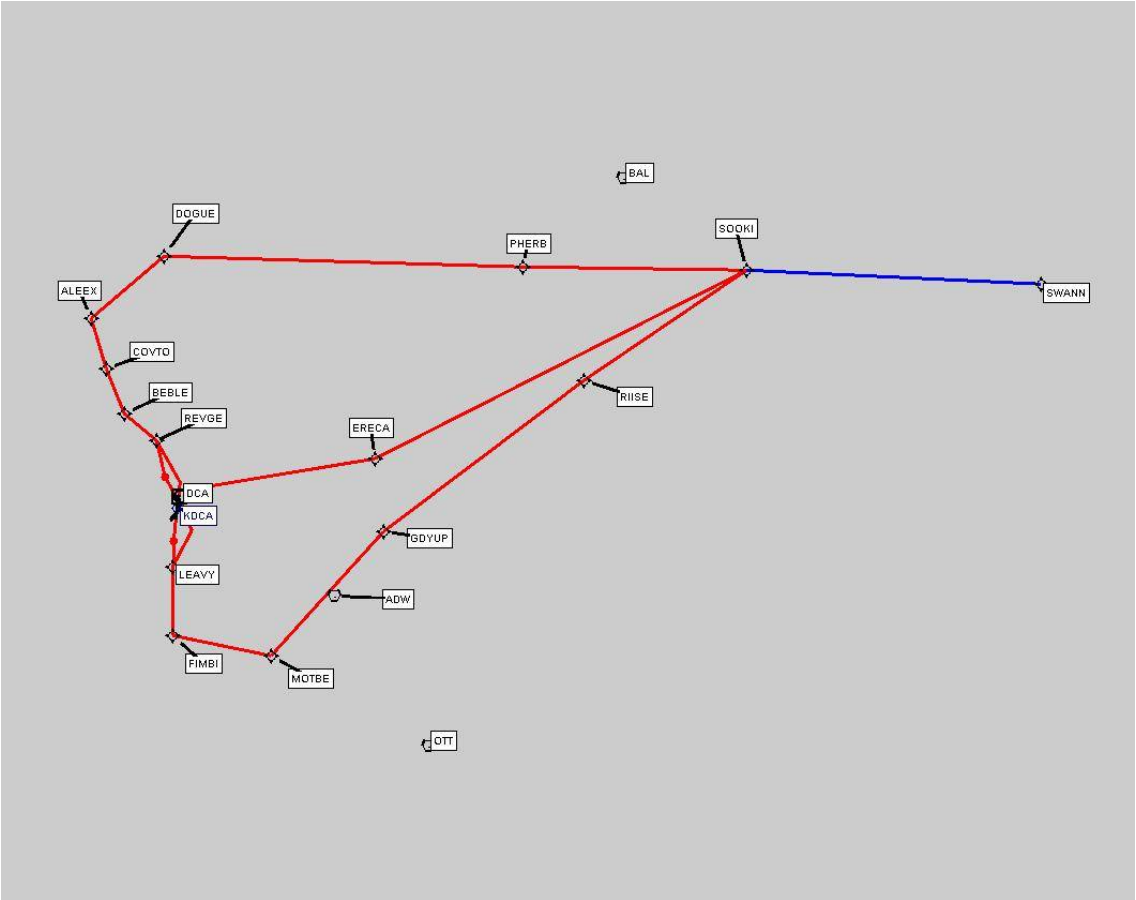
DME DME Assessment Results for SOOKI5 path KDCA:RW19:DER_FIMBI

Graphic Depiction 6



DME DME Assessment Results for SOOKI5 path KDCA:RW19:DER_FIMBI

Graphic Depiction 7



DME DME Assessment Results for SOOKI5 path KDCA:RW33:DER_SOOKI

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Mason
Project File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SOOKI\SOOKI.tgs
Output File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SOOKI\KDCA [IFPA] SOOKI5 20191113_1318 EST\KDCA-RW33-DER_SOOKI\KDCA SOOKI5 SID KDCA RW33 SOOKI 20191113_1318 EST.pdf
Procedure Name:	SOOKI5
Software: DmeDmePlugin:	6.0.0
Date/Time:	11/13/2019 13:18 EST
Databases:	DTED.MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KDCA:RW33:DER	WP	N38° 51' 40.181200000", W077° 02' 35.869100000"	14	VNAV	130	FLY_OVER	TF
REVGE	WP	N38° 53' 59.460000000", W077° 04' 14.240000000"	1500	VNAV	220	FLY_BY	TF
BEBLE	WP	N38° 54' 55.810000000", W077° 06' 26.920000000"	1892.9	VNAV	220	FLY_BY	TF
COVTO	WP	N38° 56' 49.580000000", W077° 08' 02.230000000"	2345.7	VNAV	220	FLY_BY	TF
ALEEX	WP	N38° 59' 02.290000000", W077° 09' 30.510000000"	2843.7	VNAV	220	FLY_BY	TF
DOGUE	WP	N39° 02' 30.960000000", W077° 05' 56.510000000"	4000	VNAV	250	FLY_BY	TF
PHERB	WP	N39° 05' 14.110000000", W076° 44' 35.810000000"	5000	VNAV	250	FLY_BY	TF
SOOKI	WP	N39° 07' 06.180000000", W076° 31' 20.230000000"	5000	VNAV	250	FLY_BY	TF
Climb Gradient: 540.0 ft/NM up to 640.0 ft MSL 200.0 ft/NM							

DME DME Assessment Results for SOOKI5 path KDCA:RW33:DER_SOOKI

Flyability	
Flight Type:	SID
Selected Airport:	KDCA [IFPA]
Climb Gradient:	540.0 ft/NM up to 640.0 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
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:	None

DME DME Assessment Results for SOOKI5 path KDCA:RW33:DER_SOOKI

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OTT	N38° 42' 21.135200000", W076° 44' 41.085400000"	10.0 W	40	L	IFPA	NO	Enabled	57.6 %	61.1 %
2	BAL	N39° 10' 15.828300000", W076° 39' 40.522500000"	11.0 W	40	L	IFPA	NO	Enabled	76.5 %	78 %
3	CSN	N38° 38' 28.327700000", W077° 51' 55.797900000"	6.0 W	130	H	IFPA	NO	Enabled		
4	AML	N38° 56' 04.538000000", W077° 28' 00.128500000"	8.0 W	40	L	IFPA	NO	Enabled	64.6 %	66.9 %
5	ADW	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	L	IFPA	NO	Enabled	78.4 %	81.5 %
6	DCA	N38° 51' 34.030100000", W077° 02' 11.170000000"	9.0 W	40	L	IFPA	NO	Enabled	80 %	83.1 %
7	EMI	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	H	IFPA	NO	Enabled	87.1 %	89.8 %

DME DME Assessment Results for SOOKI5 path KDCA:RW33:DER_SOOKI

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
2.0	BAL	ADW				
2.2						
2.3	BAL	ADW				
2.4						
3.1	BAL	DCA				
4.2	BAL	DCA	EMI			
4.3	BAL	EMI				
4.4	BAL	DCA	EMI			
4.8	BAL	DCA	ADW	EMI		
5.1	ADW	EMI	BAL			
5.3	BAL	EMI				
5.4	BAL	DCA	ADW	EMI		
5.5	BAL	DCA	CSN	ADW	EMI	
5.6	BAL	DCA	ADW	EMI		
5.7	BAL	EMI				
5.8	BAL	DCA	EMI			
5.9	BAL	DCA	CSN	ADW	EMI	
6.0	BAL	DCA	ADW	EMI		
6.1	ADW	EMI	BAL			
6.2	BAL	EMI				
6.3	BAL	DCA	EMI			
6.6	BAL	EMI				
6.7	ADW	EMI	BAL			
6.7	BAL	DCA	ADW	EMI		
6.8	BAL	DCA	EMI			
7.0	BAL	EMI				
7.0	BAL	DCA	EMI			
7.1	BAL	EMI				
7.2	ADW	EMI	BAL			
7.3	BAL	EMI				
7.3	BAL	DCA	EMI			
7.6	BAL	EMI				
7.7	BAL	DCA	CSN	AML	EMI	
7.7	BAL	DCA	AML	EMI		
7.9	BAL	DCA	AML	EMI	ADW	
8.0	AML	EMI	ADW	BAL		
8.1	BAL	DCA	AML	EMI		
8.3	AML	EMI	BAL			
8.5	BAL	DCA	ADW	EMI	AML	
8.7	ADW	EMI	AML	BAL		
8.9	BAL	DCA	AML	EMI		
9.0	AML	EMI	BAL			
9.2	BAL	DCA	ADW	EMI	AML	
10.1	BAL	ADW	EMI	AML		
10.2	BAL	DCA	AML	ADW	EMI	
10.4	BAL	ADW	EMI	AML		
10.5	BAL	DCA	AML	ADW	EMI	
10.6	BAL	ADW	EMI	AML		
10.7	BAL	DCA	AML	ADW	EMI	
11.5	OTT	BAL	ADW	AML	EMI	
11.6	BAL	DCA	AML	ADW	EMI	
11.8	BAL	ADW	AML	EMI		
11.8	OTT	BAL	ADW	AML	EMI	
11.9	BAL	DCA	AML	ADW	EMI	
12.1	BAL	ADW	AML	EMI		

DME DME Assessment Results for SOOKI5 path KDCA:RW33:DER_SOOKI

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
12.3	BAL	DCA	AML	ADW	EMI	
32.4	AML	EMI	DCA	OTT	ADW	
35.3	DCA	EMI	ADW	OTT		
38.4	DCA	EMI	BAL	ADW	OTT	

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N38° 51' 41.884587399", W077° 02' 37.532417743"	N38° 53' 21.235470779", W077° 03' 52.055650586"	1.9297
2	N38° 53' 32.996996501", W077° 03' 58.880900652"	N38° 53' 41.818063733", W077° 04' 04.000248593"	0.1613
3	N38° 53' 44.758404797", W077° 04' 05.706776088"	N38° 54' 13.124465574", W077° 04' 46.399497472"	0.7452

Available DMEs by Waypoints

Waypoint Before	Waypoint After	DME List
KDCA:RW33:DER	REVGE	ADW, BAL
REVGE	BEBLE	EMI, DCA, BAL
BEBLE	COVTO	EMI, DCA, ADW, BAL, CSN
COVTO	ALEEX	EMI, AML, DCA, ADW, BAL, CSN
ALEEX	DOGUE	AML, EMI, DCA, ADW, BAL, OTT
DOGUE	PHERB	AML, EMI, DCA, ADW, BAL, OTT
PHERB	SOOKI	AML, EMI, DCA, ADW, BAL, OTT

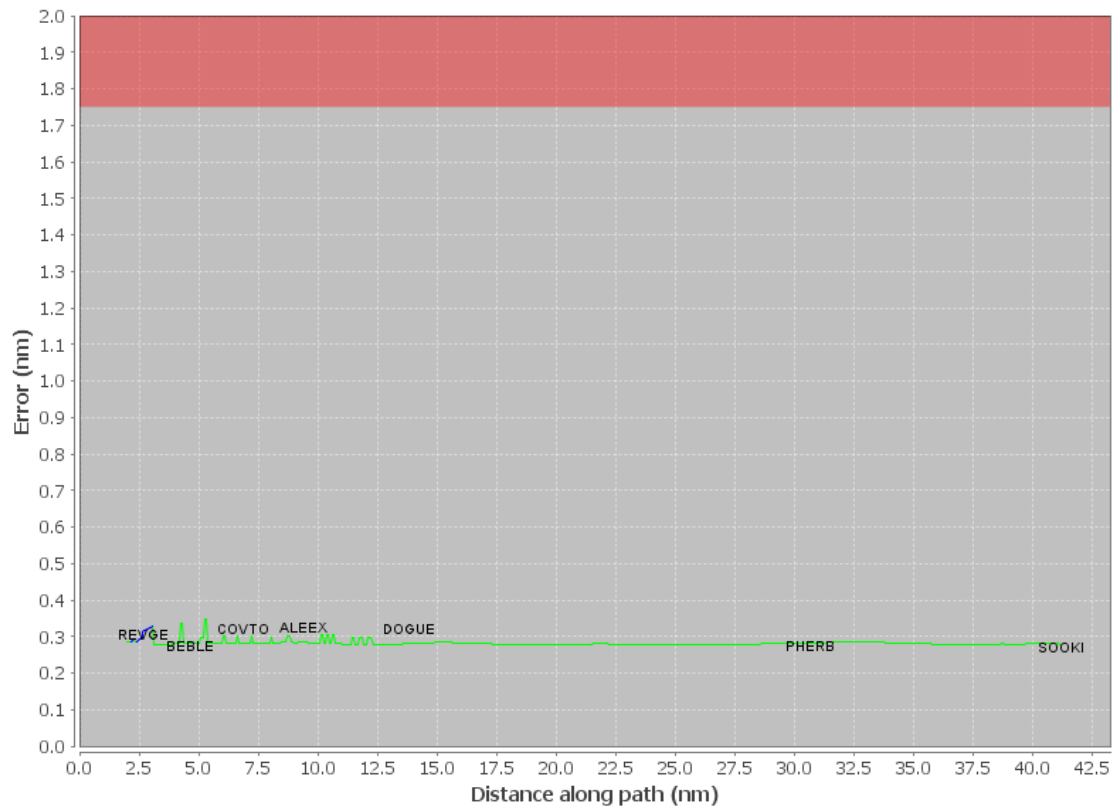
User Data Files

#	File Name
	None

User DMEs

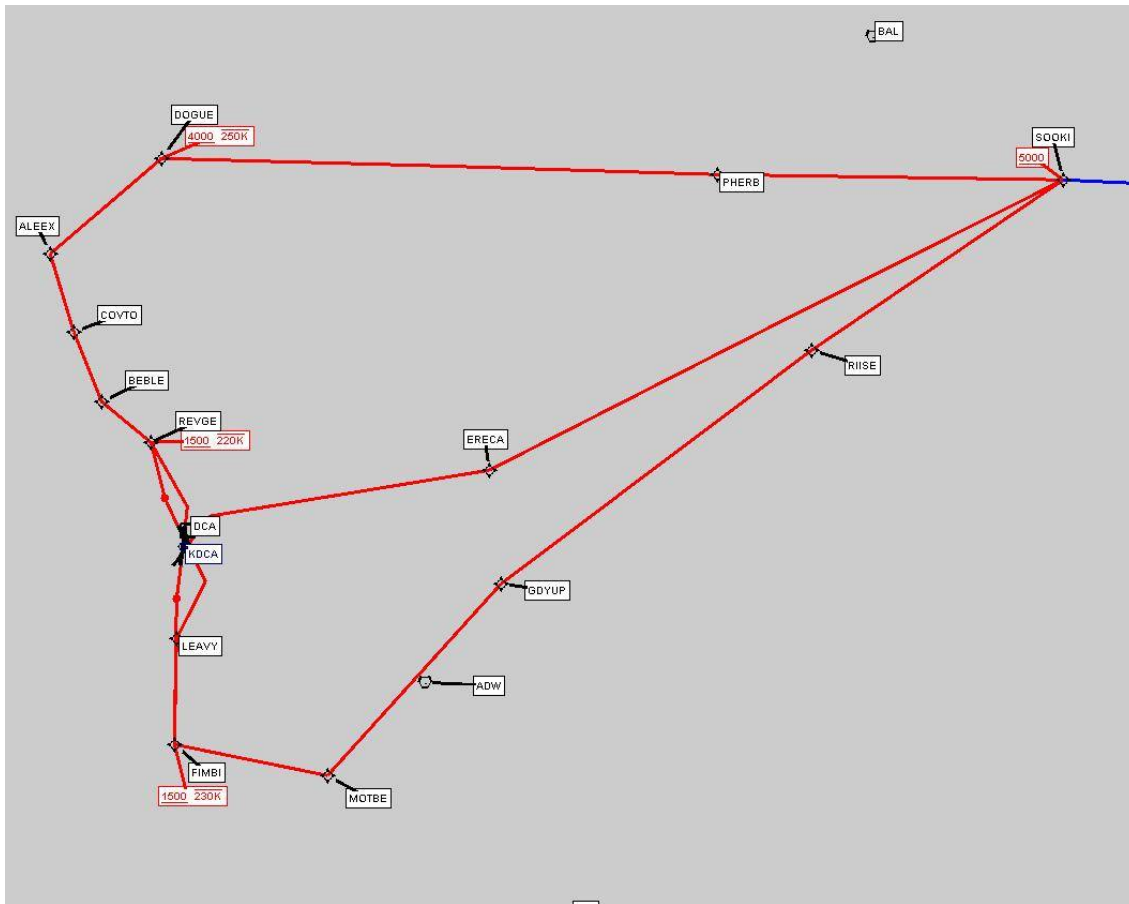
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	ESVB SBY [IFPA] SBY [IFPA]	N38° 20' 42.020100000", W075° 30' 38.067400000"	12.0 W	40	52.5	111.2	ESVB SBY [IFPA]	
	ESV:	Bearing [True]: 313.0° to 333.0° Bearing [Mag]: 325.0° to 345.0°				Arc Distance: Out to 65.0 NM Altitude: 7000.0 to 16000.0 ft		
2	ADW FAA 880073-2 ADW [IFPA]	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	278.9	113.1	ADW FAA 880073-2	
	ESV:	Bearing [True]: 308.0° to 332.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 20000.0 ft		

DME Error



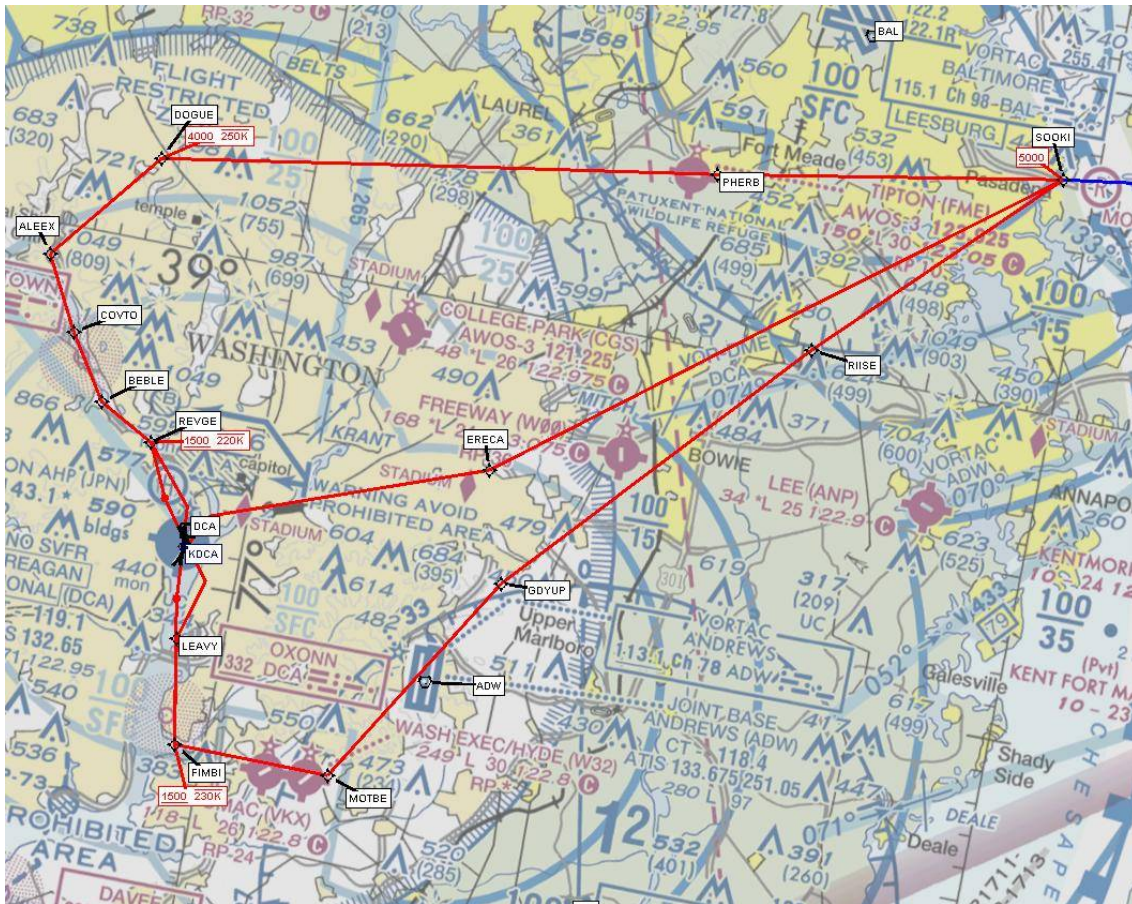
DME DME Assessment Results for SOOKI5 path KDCA:RW33:DER_SOOKI

Graphic Depiction 1



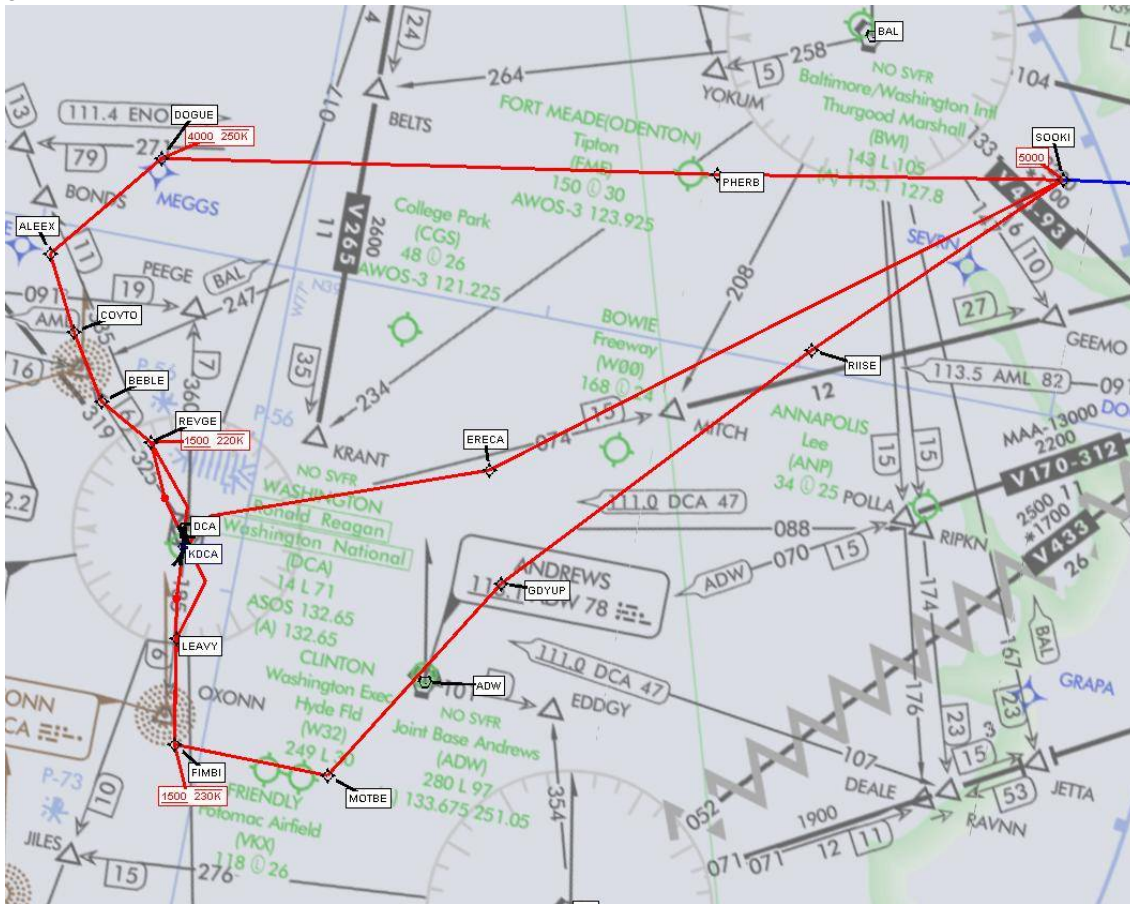
DME DME Assessment Results for SOOKI5 path KDCA:RW33:DER_SOOKI

Graphic Depiction 2



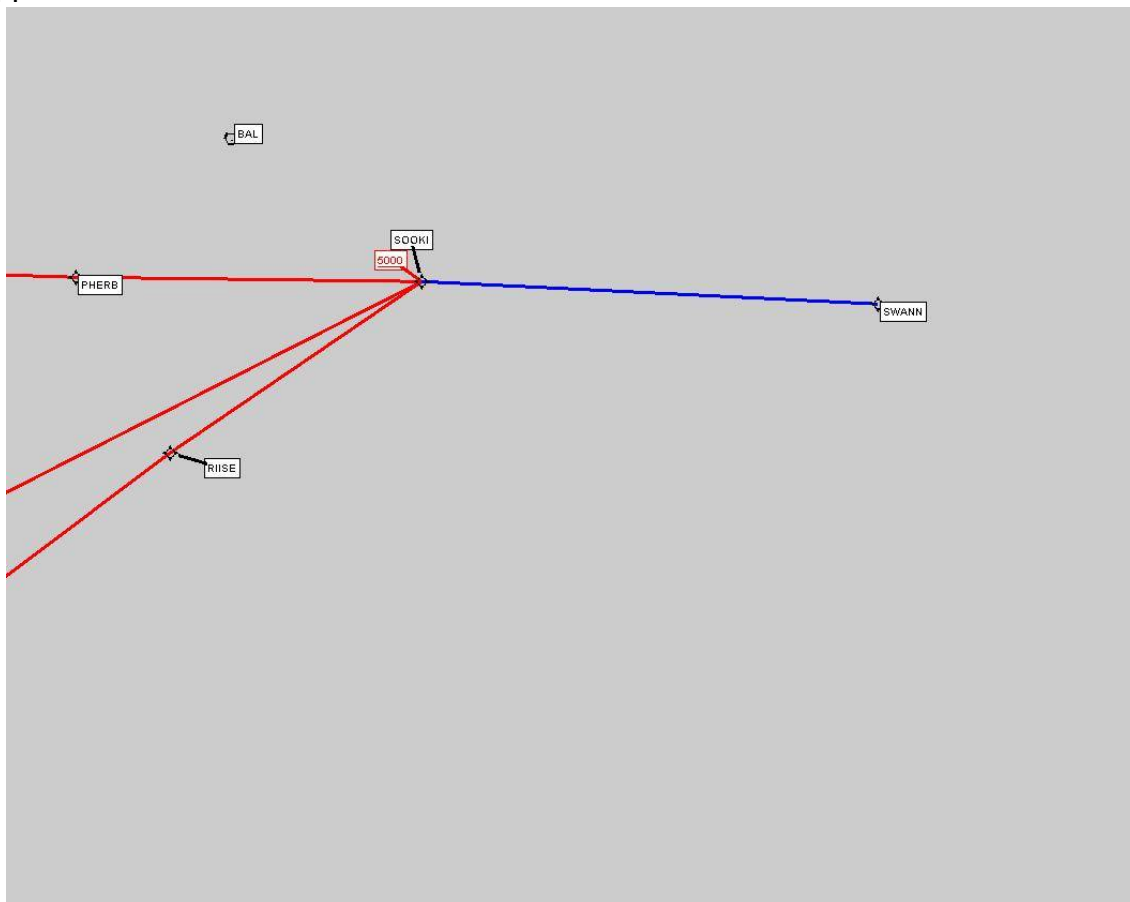
DME DME Assessment Results for SOOKI5 path KDCA:RW33:DER_SOOKI

Graphic Depiction 3

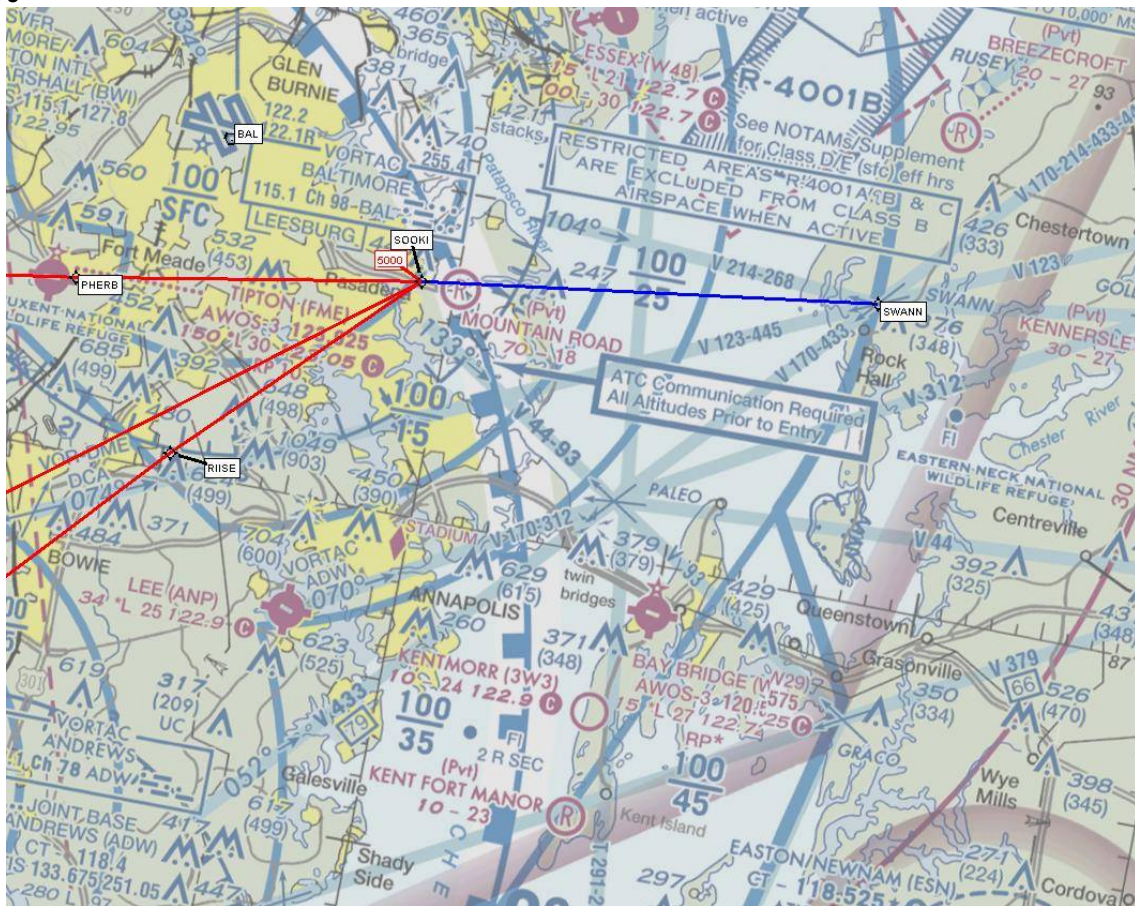


DME DME Assessment Results for SOOKI5 path KDCA:RW33:DER_SOOKI

Graphic Depiction 4

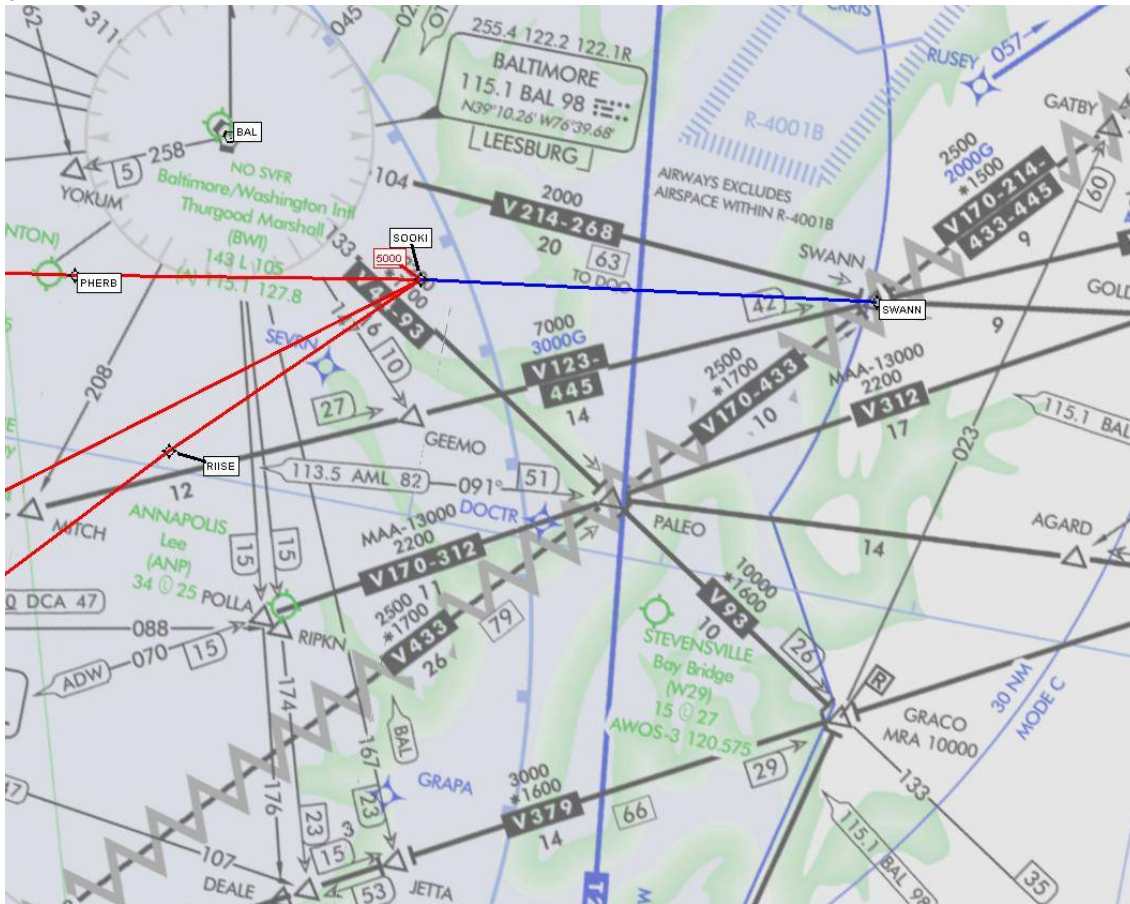


Graphic Depiction 5



DME DME Assessment Results for SOOKI5 path KDCA:RW33:DER_SOOKI

Graphic Depiction 6



DME DME Assessment Results for SOOKI5 path KDCA:RW33:DER_SOOKI

Graphic Depiction 7

