

DME ESVs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LDN LDN [IFPA]	N38° 51' 15.8344", W078° 12' 20.0559"	6.0 W	40	2435.3	114.3	LDN	
	Restriction:	Bearing [True]: 149.0° to 169.0° Bearing [Mag]: 155.0° to 175.0°				Distance: Beyond 20.0 NM Altitude: Below 4500.0 ft		
	Restriction:	Bearing [True]: 194.0° to 219.0° Bearing [Mag]: 200.0° to 225.0°				Distance: Beyond 20.0 NM Altitude: Below 5500.0 ft		
	Restriction:	Bearing [True]: 109.0° to 144.0° Bearing [Mag]: 115.0° to 150.0°				Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
	Restriction:	Bearing [True]: 144.0° to 149.0° Bearing [Mag]: 150.0° to 155.0°				Distance: Beyond 20.0 NM Altitude: Below 4000.0 ft		
	Restriction:	Bearing [True]: 169.0° to 194.0° Bearing [Mag]: 175.0° to 200.0°				Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
	ESV:	Bearing [True]: 330.0° to 354.0° Bearing [Mag]: 336.0° to 360.0°				Arc Distance: Out to 51.0 NM Altitude: 4700.0 to 20500.0 ft		

## DME DME Assessment Results for ANTHM4 path ANTHM\_ARYIA

### 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 ANTHM4 (RNAV) STAR DME DME_20231211 MITRE 3DEP 3 arcsec .auto-save.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] ANTHM4 20240207_0709 EST\ANTHM_ARYIA\KBWI ANTHM4 RNAV STAR ANTHM ARYIA 20240207_0709 EST.pdf
Procedure Name:	ANTHM4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 07:09 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
ANTHM	WP	N39° 26' 47.5600", W077° 21' 47.6700"	4500	VNAV	280	FLY_BY	TF
ARYIA	WP	N39° 28' 33.2200", W077° 13' 50.9700"	4000	VNAV	250	FLY_OVER	TF

### Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KBWI [IFPA]
Climb Gradient:	None assigned
Speeds:	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 ANTHM4 path ANTHM\_ARYIA**

<b>DME/DME</b>	
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:	Enabled
Disabled DMEs:	FKN

<b>DME/DME (Continued)</b>										
<b>DMEs Used</b>										
#	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	94 %	94 %
2	AML	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	L	IFPA	NO	Enabled	100 %	100 %
3	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled	100 %	100 %
4	FKN	N36° 42' 51.2443", W077° 00' 44.5488"	9.0 W	40	L	IFPA	NO	Disabled		

<b>Flight Check DME Selection</b>						
Distance [NM]	Selected DMEs					Alternate
0.0	AML	MRB	EMI			
6.1	AML	EMI				

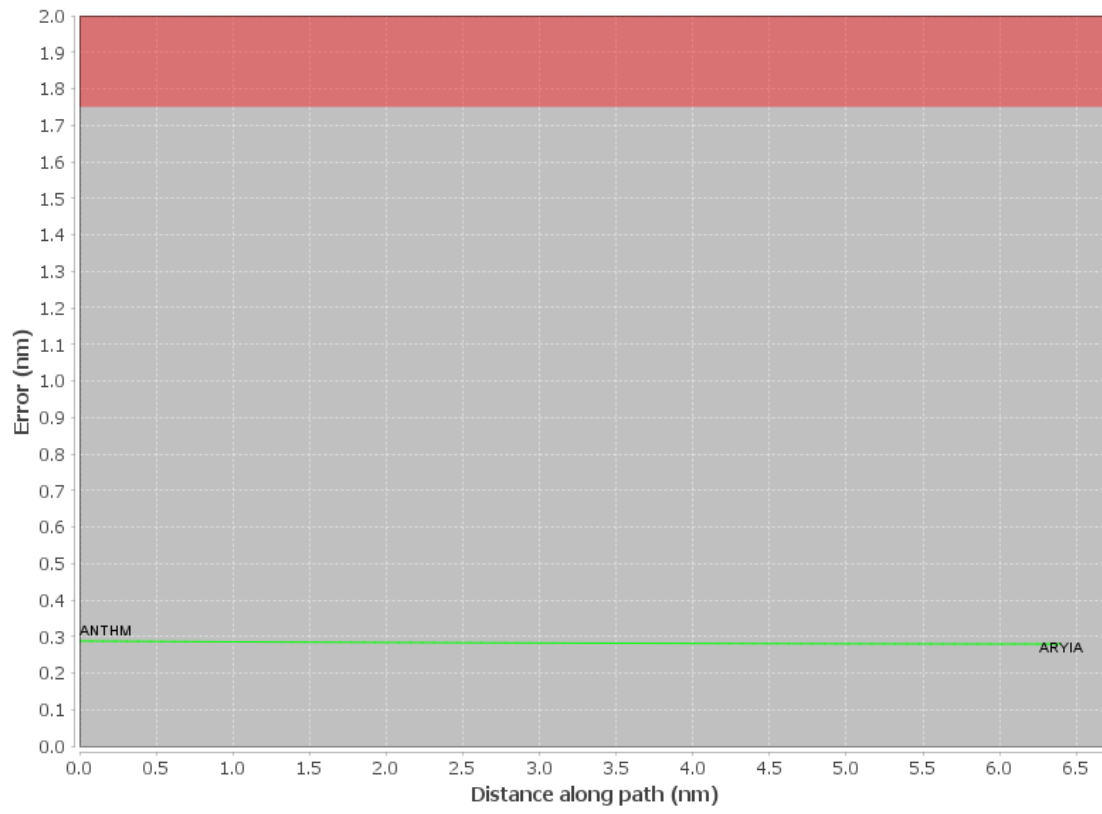
<b>Inertial Drift Segments</b>			
#	Start Location	End Location	Length [NM]

<b>Available DMEs by Waypoints</b>			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
ANTHM	ARYIA	AML, EMI, MRB	

<b>User Data Files</b>								
#	File Name							
1	New Analysis.udt							
<b>User DMEs</b>								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LDN LDN [IFPA]	N38° 51' 15.8344", W078° 12' 20.0559"	6.0 W	40	2435.3	114.3	LDN	
	ESV:	Bearing [True]: 330.0° to 354.0° Bearing [Mag]: 336.0° to 360.0°				Arc Distance: Out to 51.0 NM Altitude: 4700.0 to 20500.0 ft		

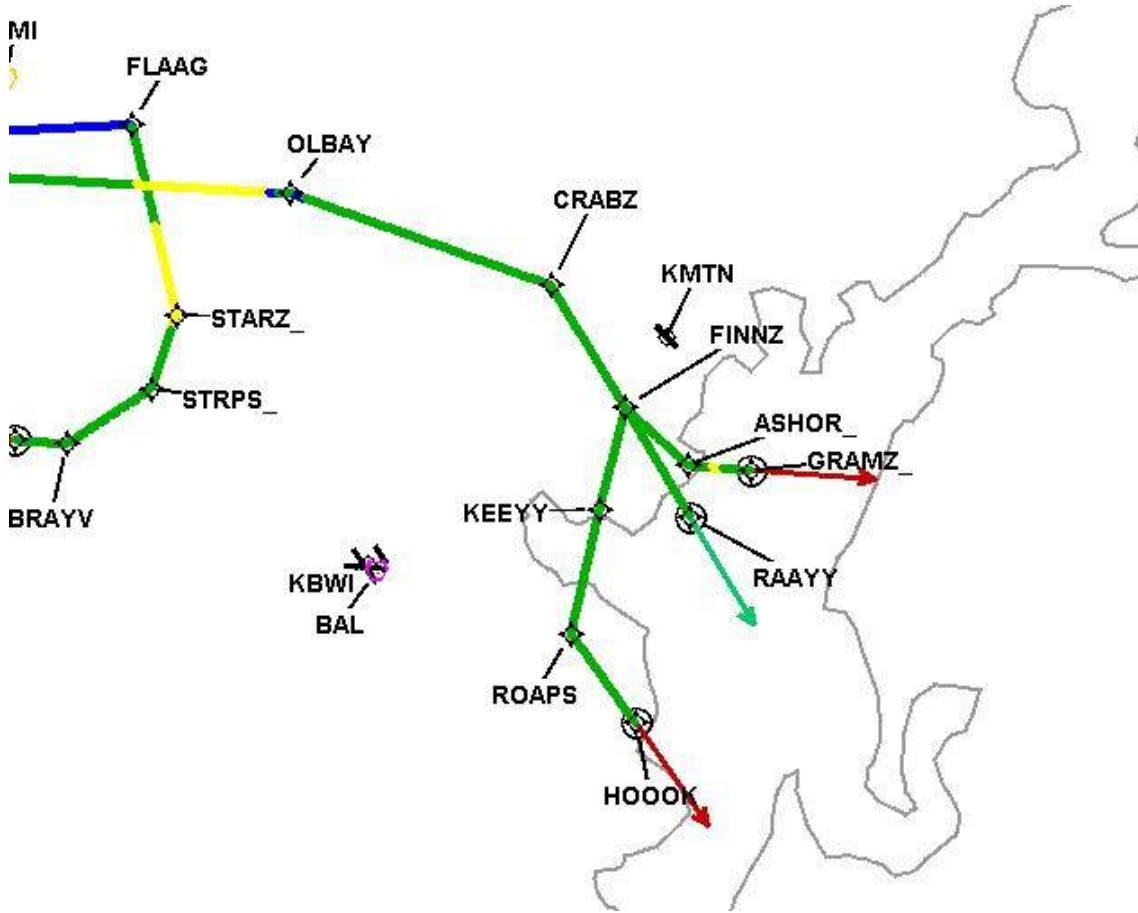
# DME DME Assessment Results for ANTHM4 path ANTHM\_ARYIA

## DME Error



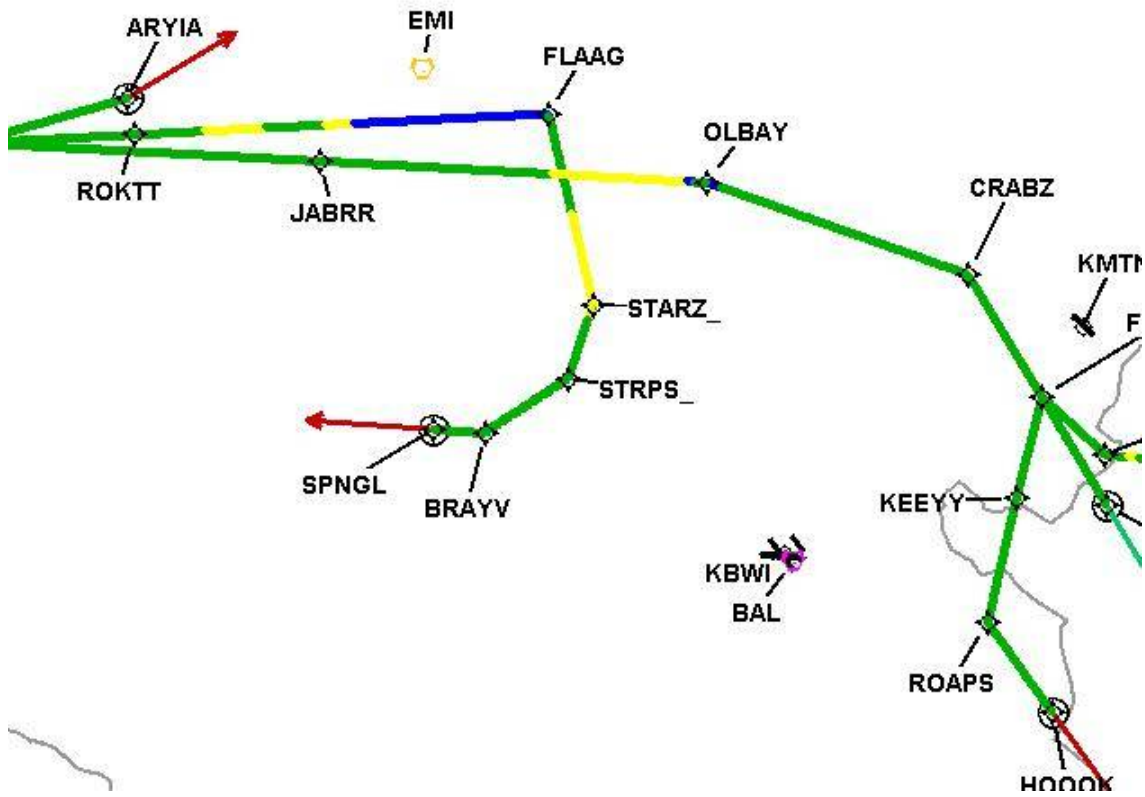
DME DME Assessment Results for ANTHM4 path ANTHM\_ARYIA

Graphic Depiction 1



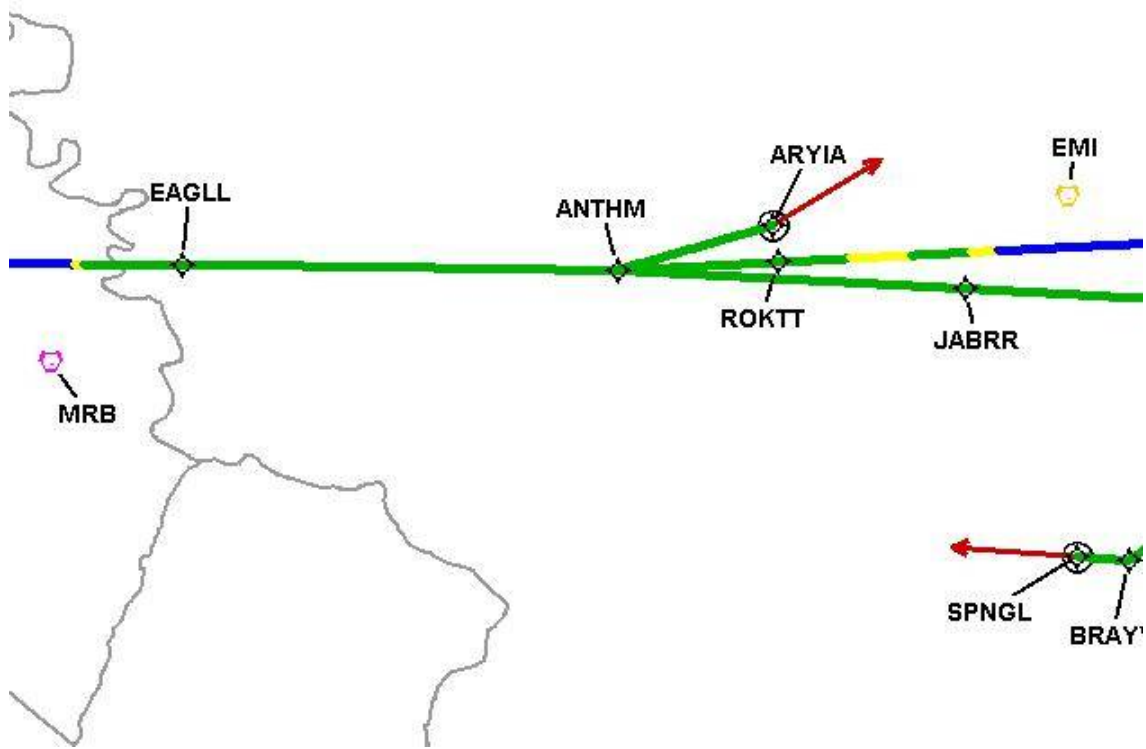
DME DME Assessment Results for ANTHM4 path ANTHM\_ARYIA

Graphic Depiction 2



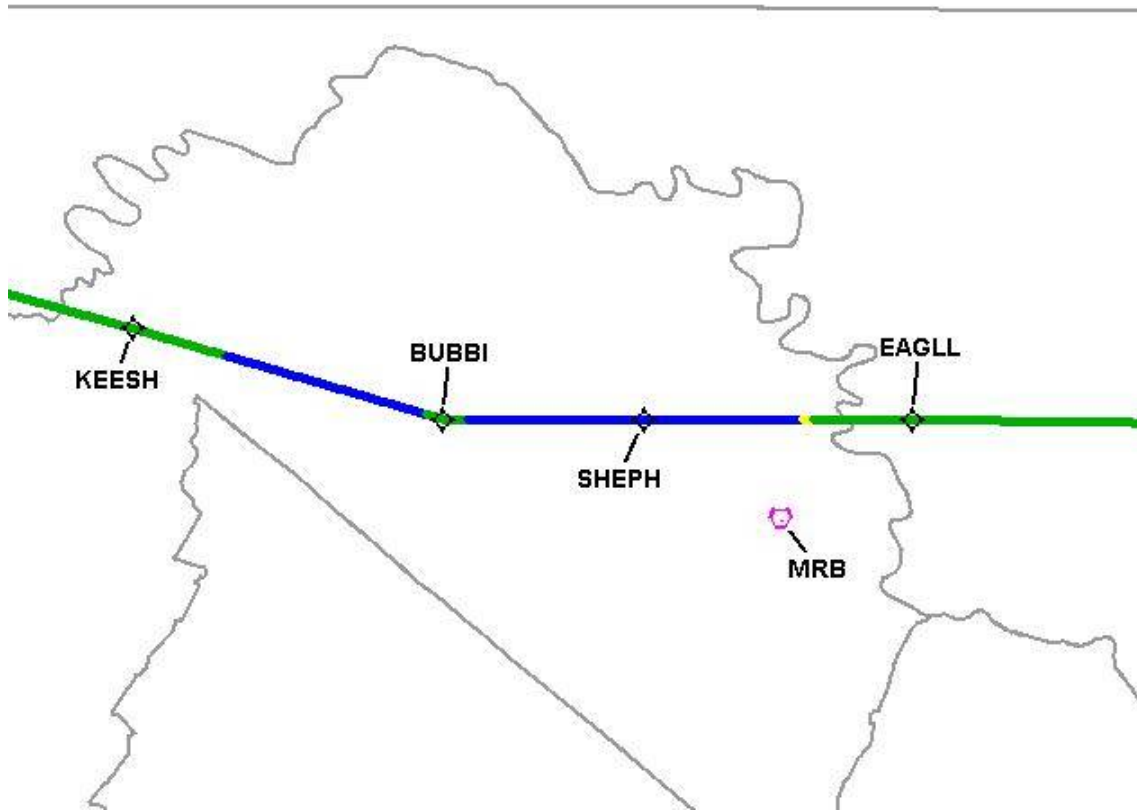
DME DME Assessment Results for ANTHM4 path ANTHM\_ARYIA

Graphic Depiction 3



DME DME Assessment Results for ANTHM4 path ANTHM\_ARYIA

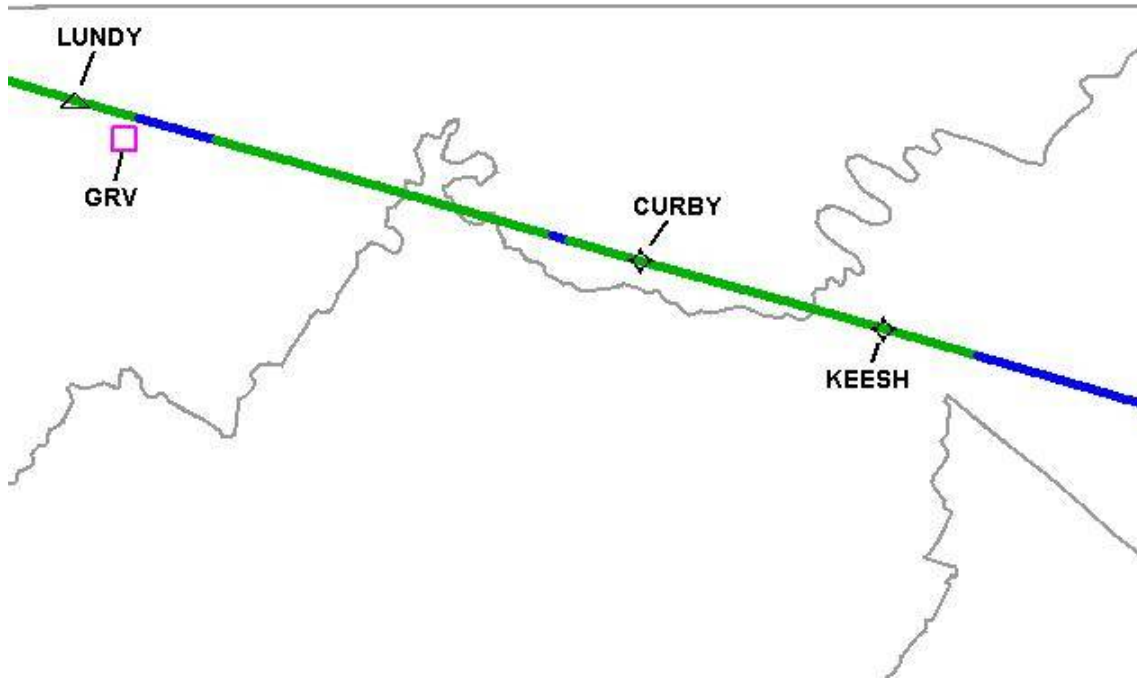
Graphic Depiction 4





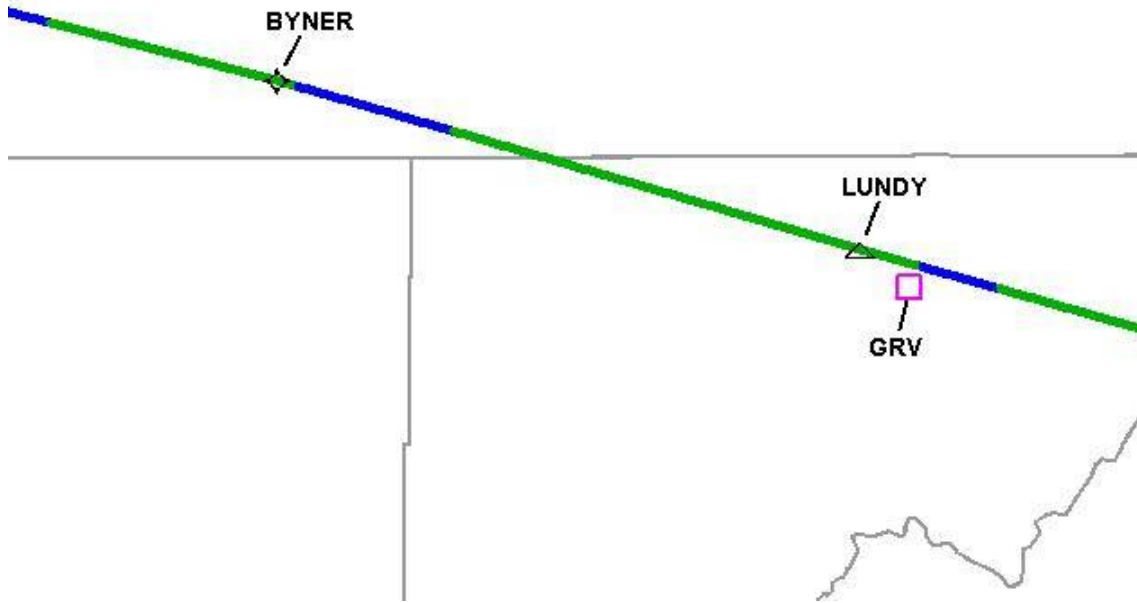
# DME DME Assessment Results for ANTHM4 path ANTHM\_ARYIA

Graphic Depiction 5

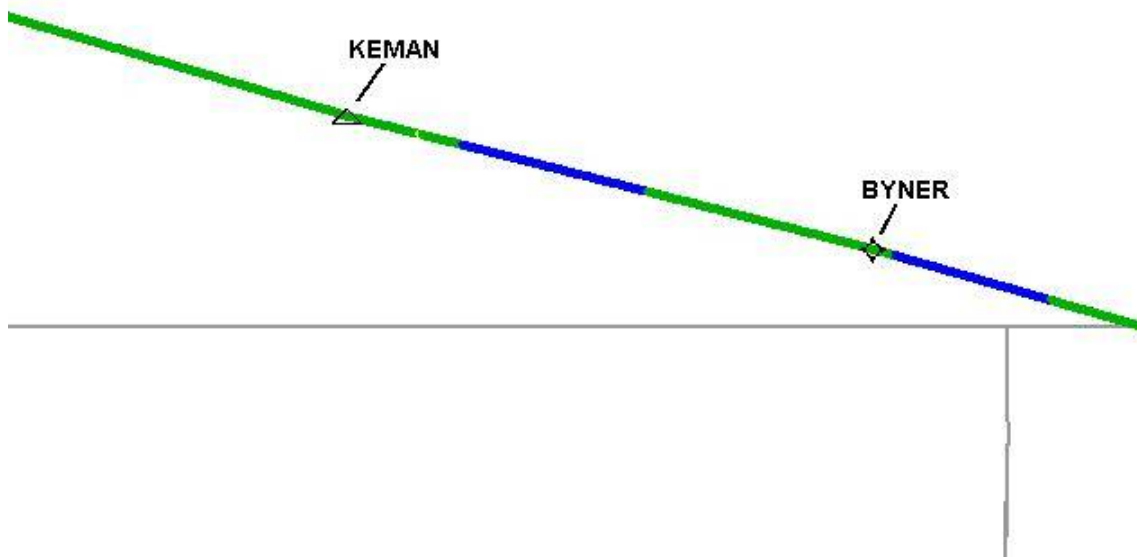


DME DME Assessment Results for ANTHM4 path ANTHM\_ARYIA

Graphic Depiction 6

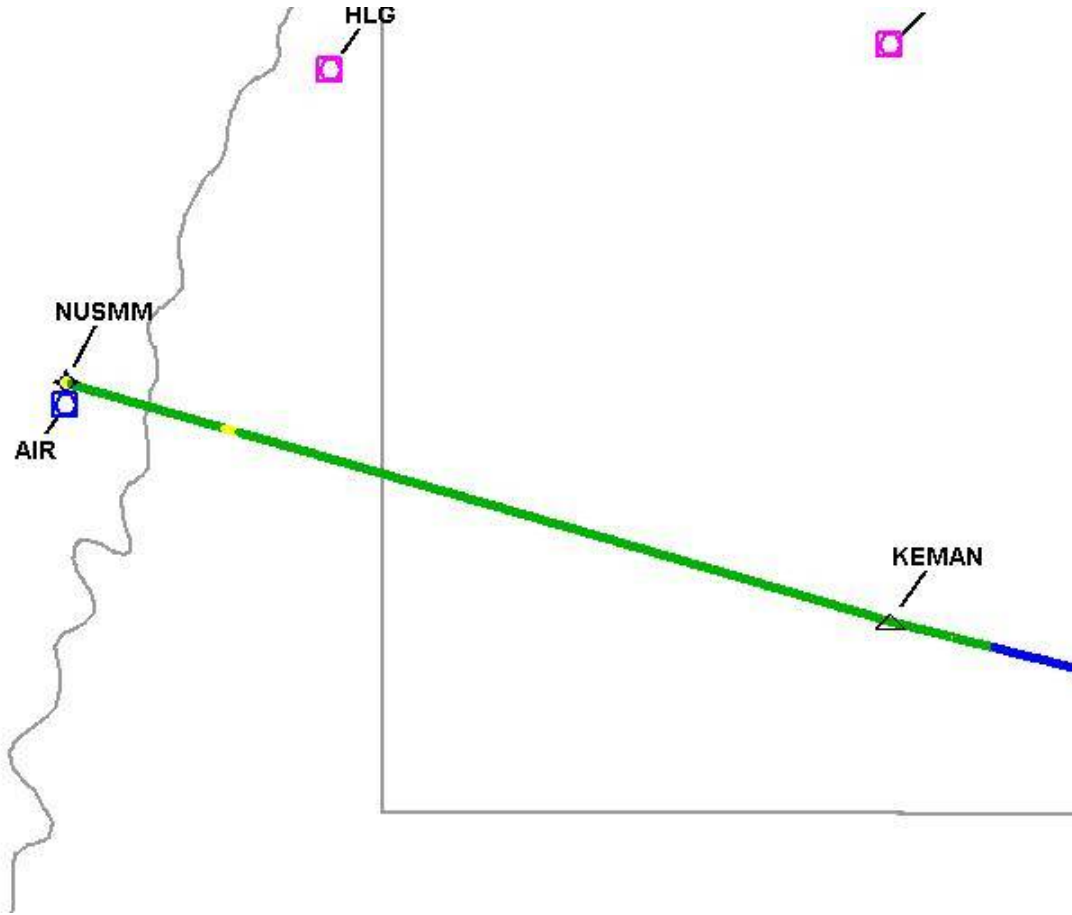


Graphic Depiction 7



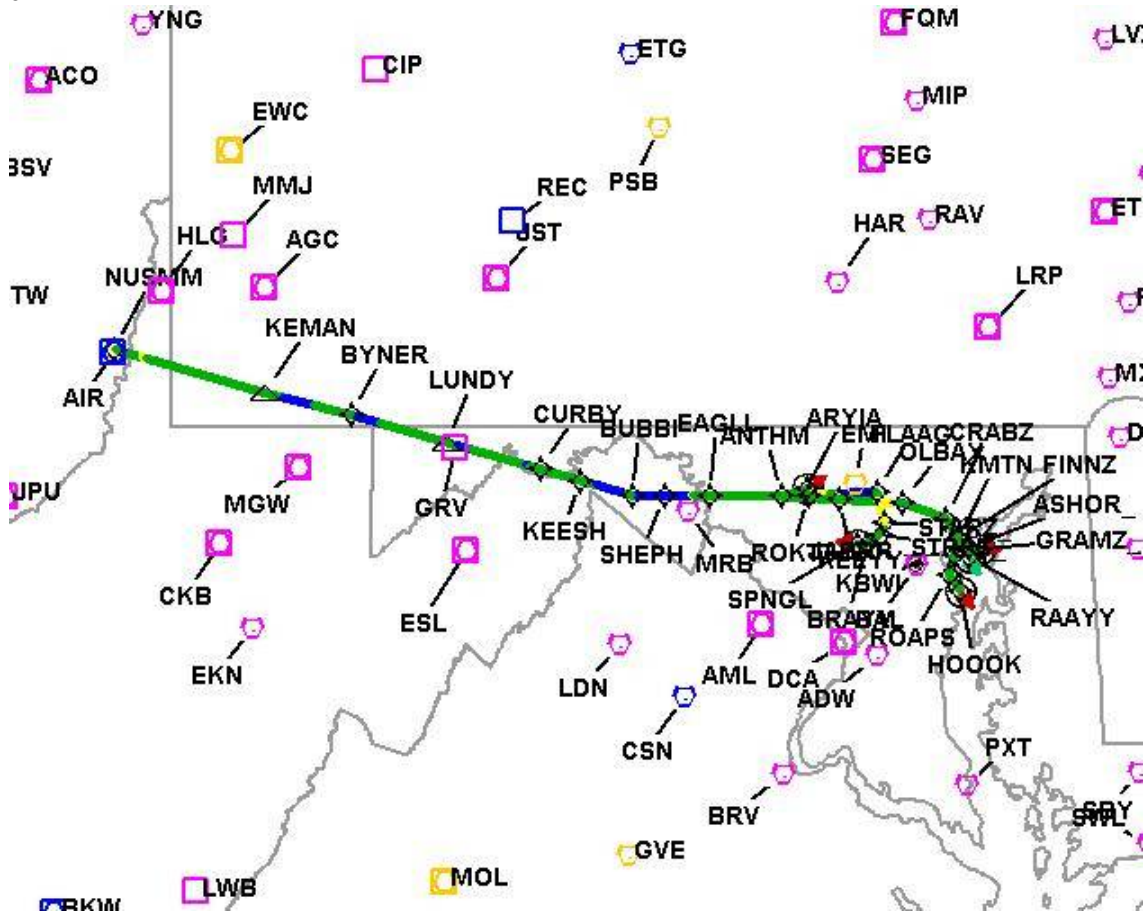
DME DME Assessment Results for ANTHM4 path ANTHM\_ARYIA

Graphic Depiction 8



DME DME Assessment Results for ANTHM4 path ANTHM\_ARYIA

Graphic Depiction 9



## DME DME Assessment Results for ANTHM4 path ANTHM\_SPNGL

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 ANTHM4 (RNAV) STAR DME DME_20231211 MITRE 3DEP 3 arcsec .auto-save.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] ANTHM4 20240207_0709 EST\ANTHM_SPNGL\KBWI ANTHM4 RNAV STAR ANTHM SPNGL 20240207_0709 EST.pdf
Procedure Name:	ANTHM4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 07:09 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
ANTHM	WP	N39° 26' 47.5600", W077° 21' 47.6700"	4500	VNAV	280	FLY_BY	TF
ROKTT	WP	N39° 27' 07.1500", W077° 13' 32.8400"	4500	VNAV	250	FLY_BY	TF
FLAAG	WP	N39° 27' 57.1300", W076° 52' 16.2400"	4500	VNAV	250	FLY_BY	TF
STARZ_	WP	N39° 20' 23.7100", W076° 49' 58.6500"	4500	VNAV	210	FLY_BY	TF
STRPS_	WP	N39° 17' 28.3800", W076° 51' 14.6700"	4000	VNAV	210	FLY_BY	TF
BRAYV	WP	N39° 15' 18.4500", W076° 55' 32.3500"	4000	VNAV	210	FLY_BY	TF
SPNGL	WP	N39° 15' 27.0269", W076° 58' 13.5190"	4000	VNAV	210	FLY_OVER	TF

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KBWI [IFPA]
Climb Gradient:	None assigned
Speeds:	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 ANTHM4 path ANTHM\_SPNGL

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:	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	29.2 %	31.7 %
2	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled	70.7 %	68.7 %
3	AML	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	L	IFPA	NO	Enabled	70.1 %	69.5 %
4	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled	70.8 %	70 %
5	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled	59.9 %	57.2 %
6	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled	36.1 %	32.8 %
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	AML	MRB	EMI			
4.6	AML	BAL	MRB	EMI		
9.2	MRB	DCA	EMI	AML	BAL	
11.7	AML	BAL	DCA	EMI		
14.0	MRB	DCA	AML	BAL	EMI	
15.1						
23.0	BAL	DCA				
27.0	AML	EMI	BAL	DCA	ADW	
30.7	BAL	DCA	EMI	ADW		
30.9	AML	BAL	EMI	DCA	ADW	

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N39° 27' 34.0949", W077° 02' 17.0561"	N39° 27' 57.1300", W076° 52' 16.2400"	7.7413

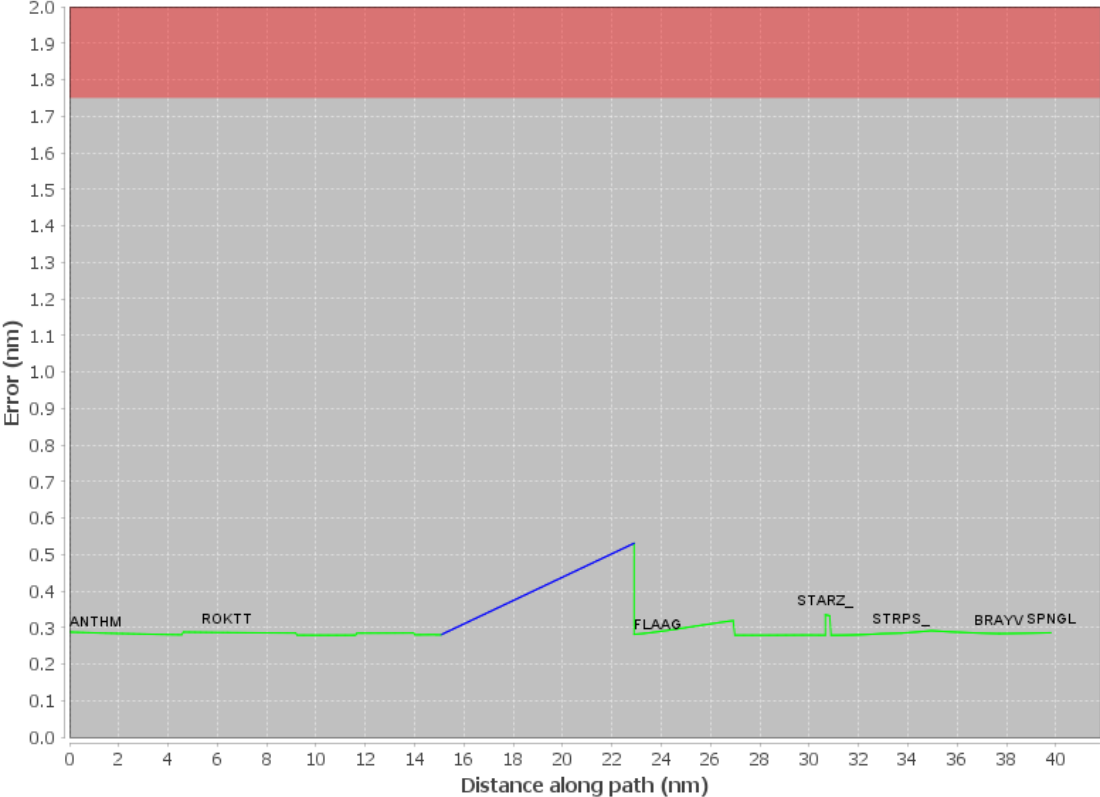
**DME DME Assessment Results for ANTHM4 path ANTHM\_SPNGL**

<b>Available DMEs by Waypoints</b>			
<b>Waypoint Before</b>	<b>Waypoint After</b>	<b>DME List</b>	<b>Suggested DMEs</b>
ANTHM	ROKTT	AML, EMI, MRB, BAL	
ROKTT	FLAAG	AML, EMI, DCA, ADW, MRB, BAL	
FLAAG	STARZ_	AML, EMI, DCA, ADW, BAL	
STARZ_	STRPS_	EMI, AML, DCA, ADW, BAL	
STRPS_	BRAYV	AML, EMI, DCA, ADW, BAL	
BRAYV	SPNGL	AML, EMI, DCA, ADW, BAL	

<b>User Data Files</b>								
<b>#</b>	<b>File Name</b>							
1	New Analysis.udt							
<b>User DMEs</b>								
<b>#</b>	<b>Name</b>	<b>Lat/Lon</b>	<b>MAGVAR</b>	<b>Range</b>	<b>Elevation [ft]</b>	<b>Frequency</b>	<b>Replaces</b>	<b>Status</b>
1	LDN LDN [IFPA]	N38° 51' 15.8344", W078° 12' 20.0559"	6.0 W	40	2435.3	114.3	LDN	
		ESV:	Bearing [True]: 330.0° to 354.0° Bearing [Mag]: 336.0° to 360.0°			Arc Distance: Out to 51.0 NM Altitude: 4700.0 to 20500.0 ft		

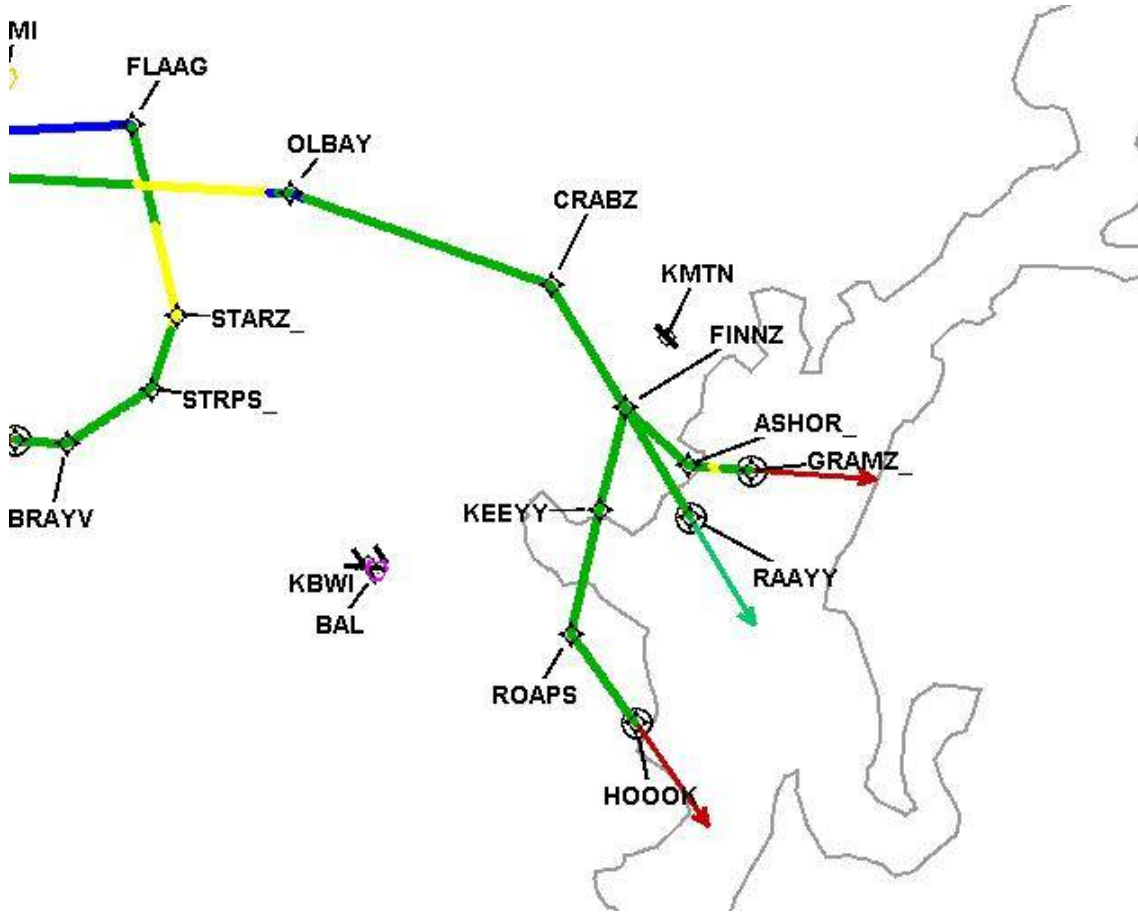


DME Error



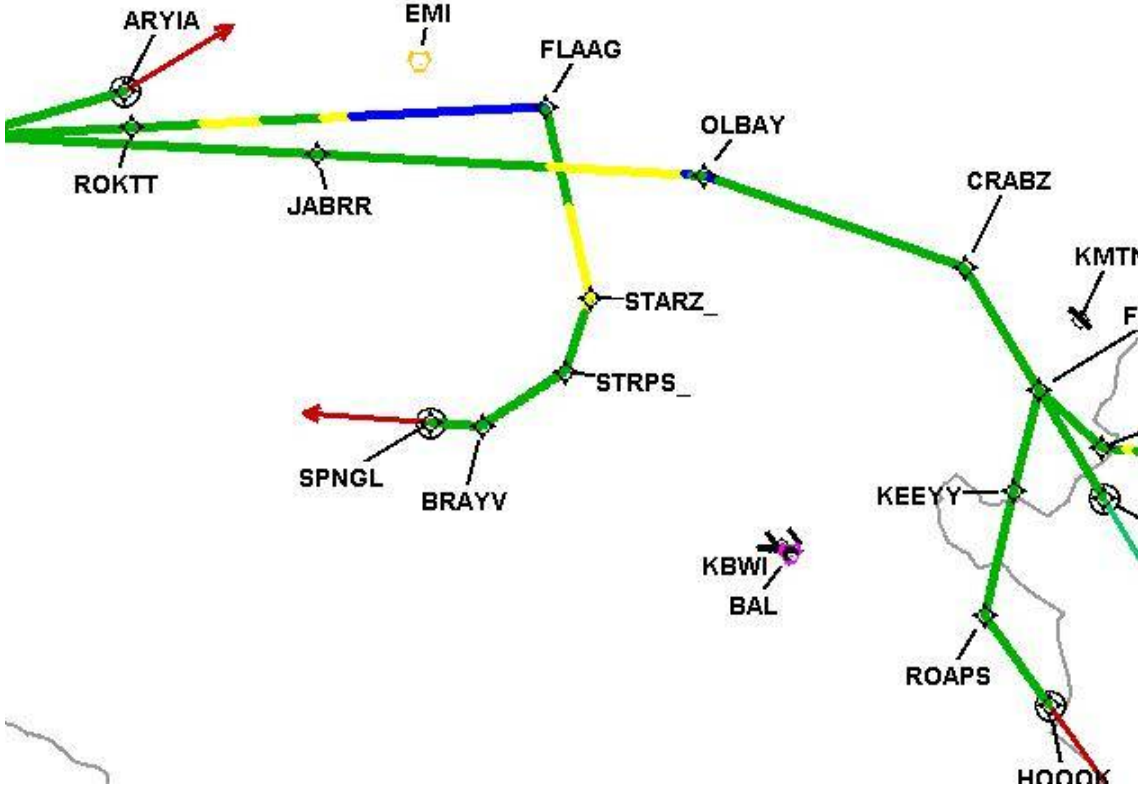
DME DME Assessment Results for ANTHM4 path ANTHM\_SPNGL

Graphic Depiction 1



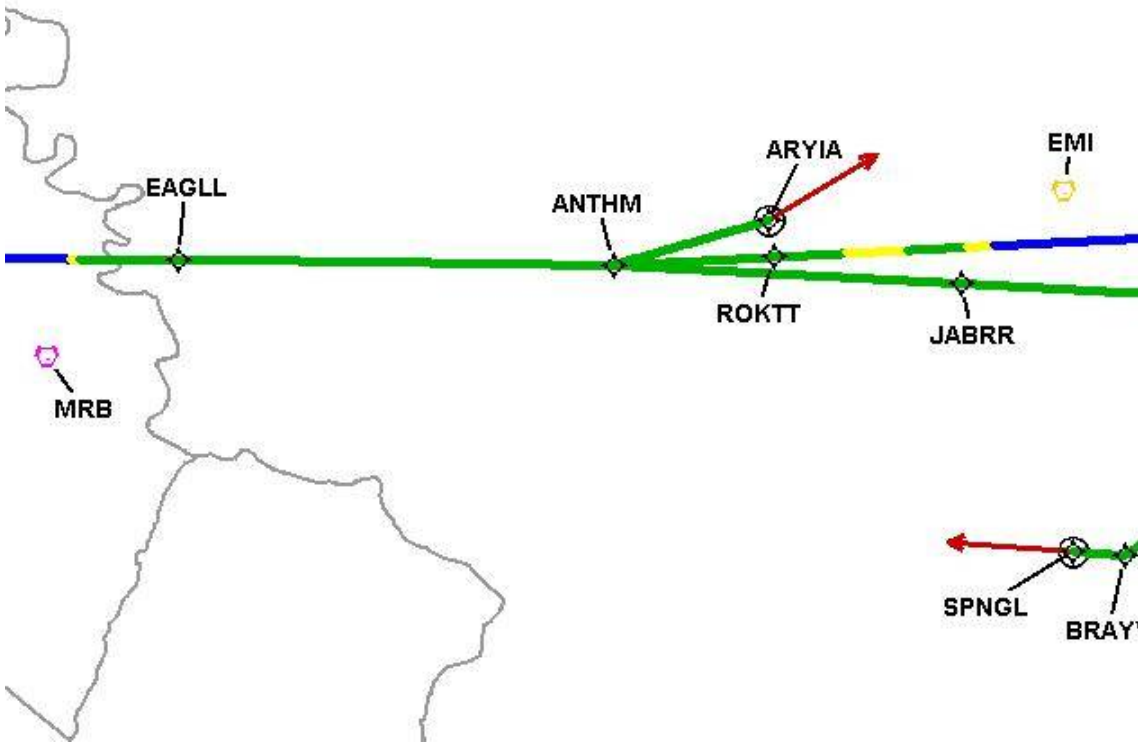
DME DME Assessment Results for ANTHM4 path ANTHM\_SPNGL

Graphic Depiction 2



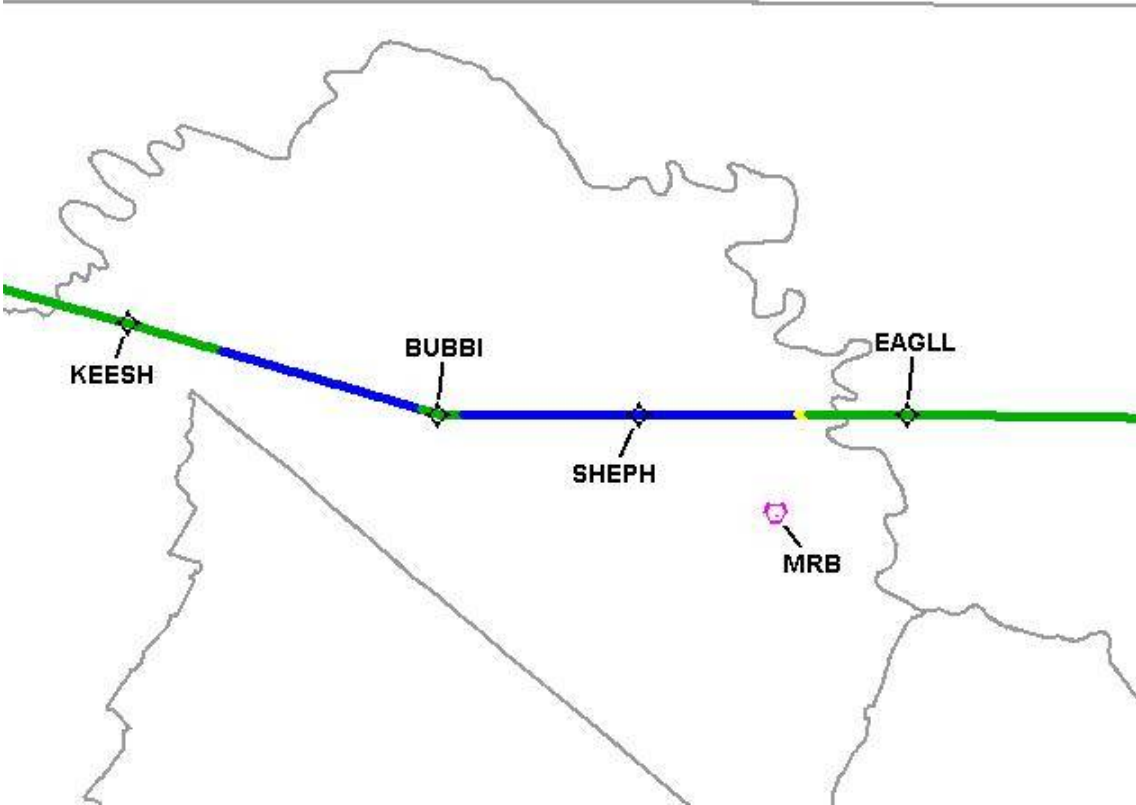
DME DME Assessment Results for ANTHM4 path ANTHM\_SPNGL

Graphic Depiction 3

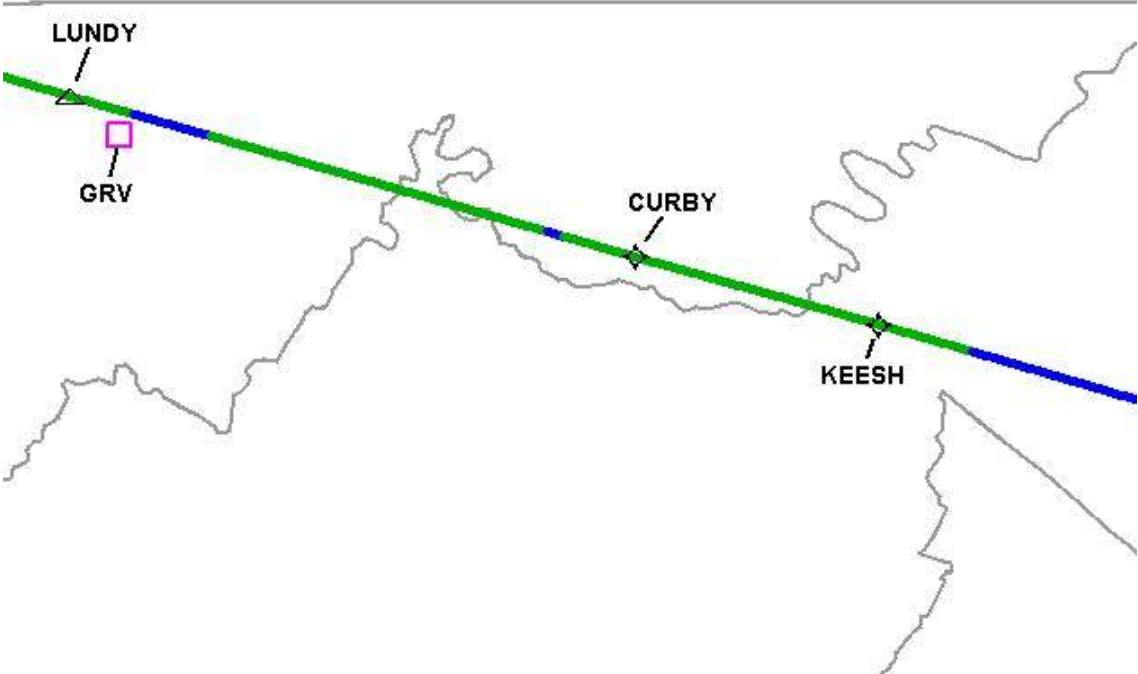


DME DME Assessment Results for ANTHM4 path ANTHM\_SPNGL

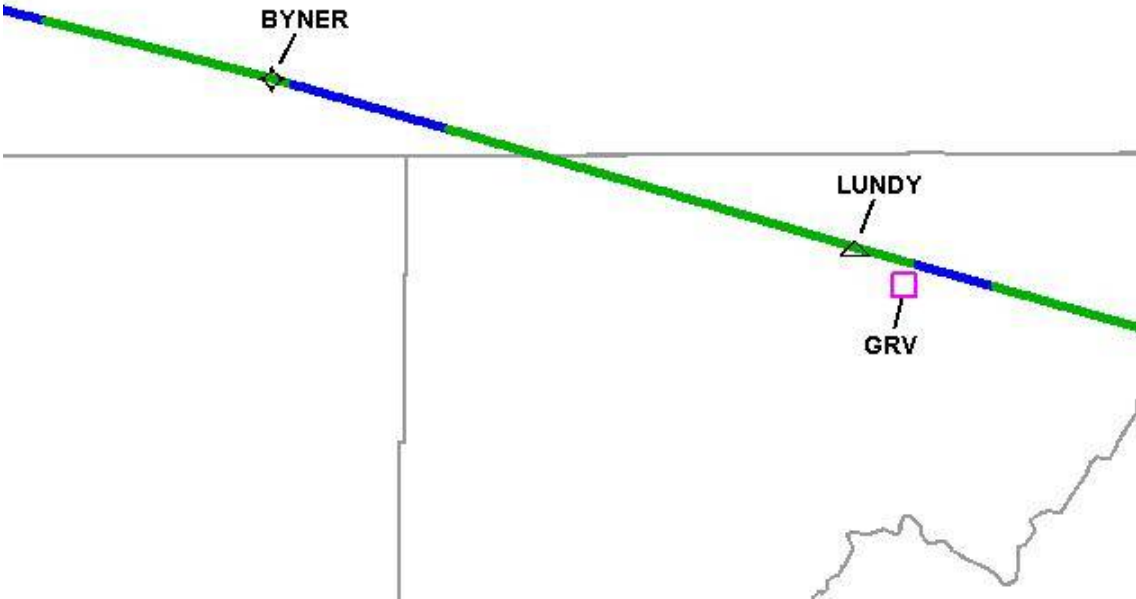
Graphic Depiction 4



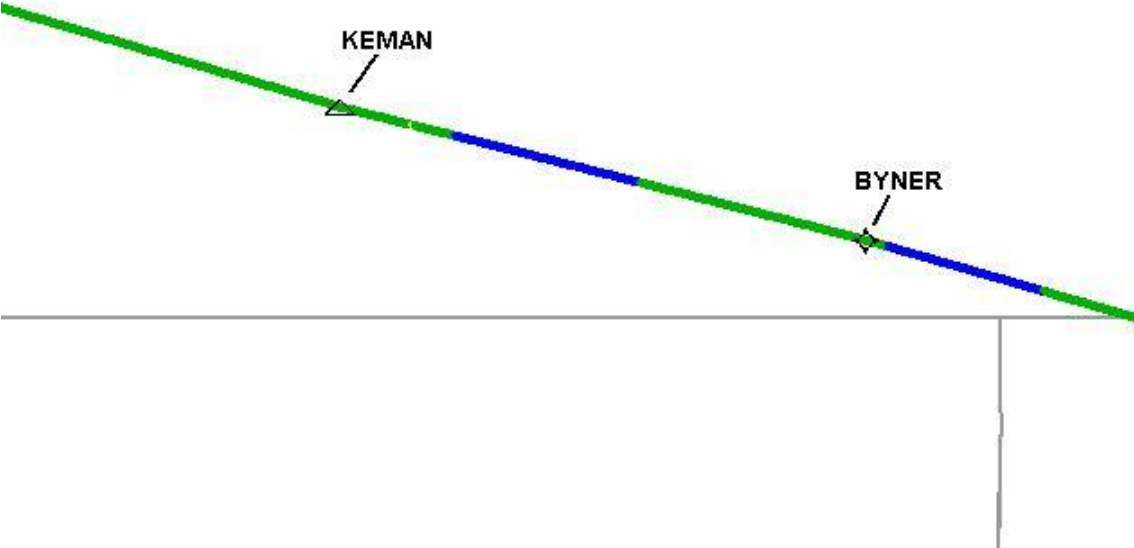
Graphic Depiction 5



Graphic Depiction 6



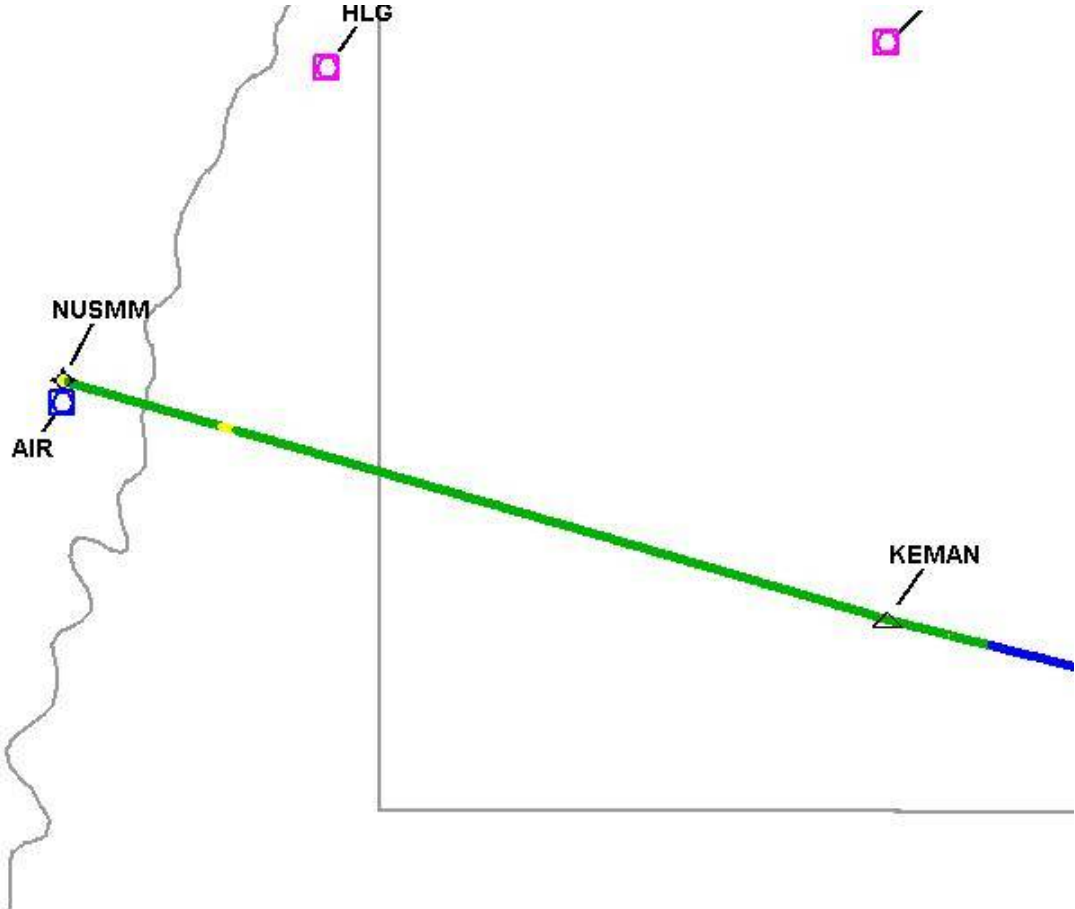
Graphic Depiction 7





DME DME Assessment Results for ANTHM4 path ANTHM\_SPNGL

Graphic Depiction 8





## DME DME Assessment Results for ANTHM4 path FINNZ\_GRAMZ\_

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 ANTHM4 (RNAV) STAR DME DME_20231211 MITRE 3DEP 3 arcsec .auto-save.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] ANTHM4 20240207_0709 EST\FINNZ_GRAMZ_\KBWI ANTHM4 RNAV STAR FINNZ GRAMZ_20240207_0709 EST.pdf
Procedure Name:	ANTHM4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 07:09 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
FINNZ	WP	N39° 16' 43.3000", W076° 26' 55.8700"	4500	VNAV	210	FLY_BY	TF
ASHOR_	WP	N39° 14' 27.0300", W076° 23' 43.7800"	4000	VNAV	210	FLY_BY	TF
GRAMZ_	WP	N39° 14' 14.6500", W076° 20' 31.3700"	4000	VNAV	210	FLY_OVER	TF

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KBWI [IFPA]
Climb Gradient:	None assigned
Speeds:	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 ANTHM4 path FINNZ\_GRAMZ\_

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:	Enabled
Disabled DMEs:	FKN

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	ENO	N39° 13' 53.9281", W075° 30' 57.4918"	9.0 W	40	L	IFPA	NO	Enabled	26.8 %	26.7 %
2	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled	100 %	100 %
3	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled	100 %	100 %
4	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled	100 %	100 %
5	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled	6.9 %	6.9 %
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	ADW	EMI	BAL			
4.3	ADW	EMI	DCA	ENO	BAL	
4.8	ADW	EMI	ENO	BAL		

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
FINNZ	ASHOR_	EMI, ADW, BAL	
ASHOR_	GRAMZ_	EMI, DCA, ADW, ENO, BAL	

**DME DME Assessment Results for ANTHM4 path FINNZ\_GRAMZ**

**User Data Files**

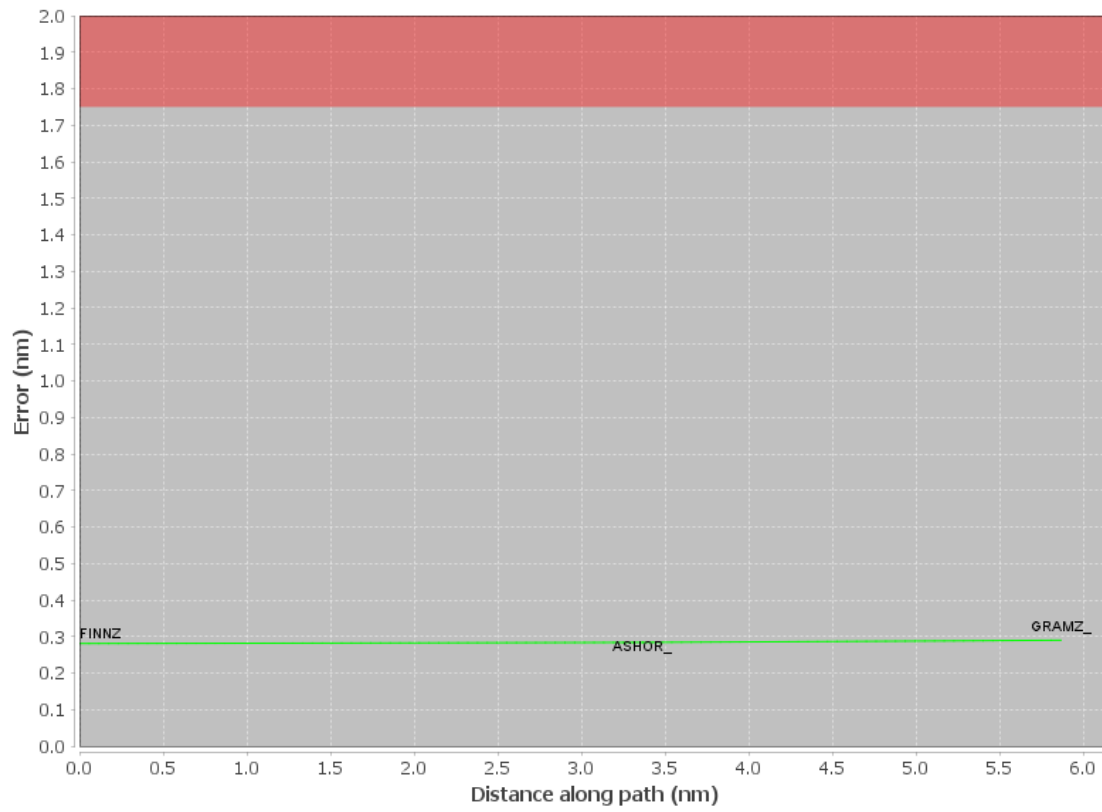
#	File Name
1	New Analysis.udt

**User DMEs**

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LDN LDN [IFPA]	N38° 51' 15.8344", W078° 12' 20.0559"	6.0 W	40	2435.3	114.3	LDN	
	ESV:	Bearing [True]: 330.0° to 354.0° Bearing [Mag]: 336.0° to 360.0°				Arc Distance: Out to 51.0 NM Altitude: 4700.0 to 20500.0 ft		

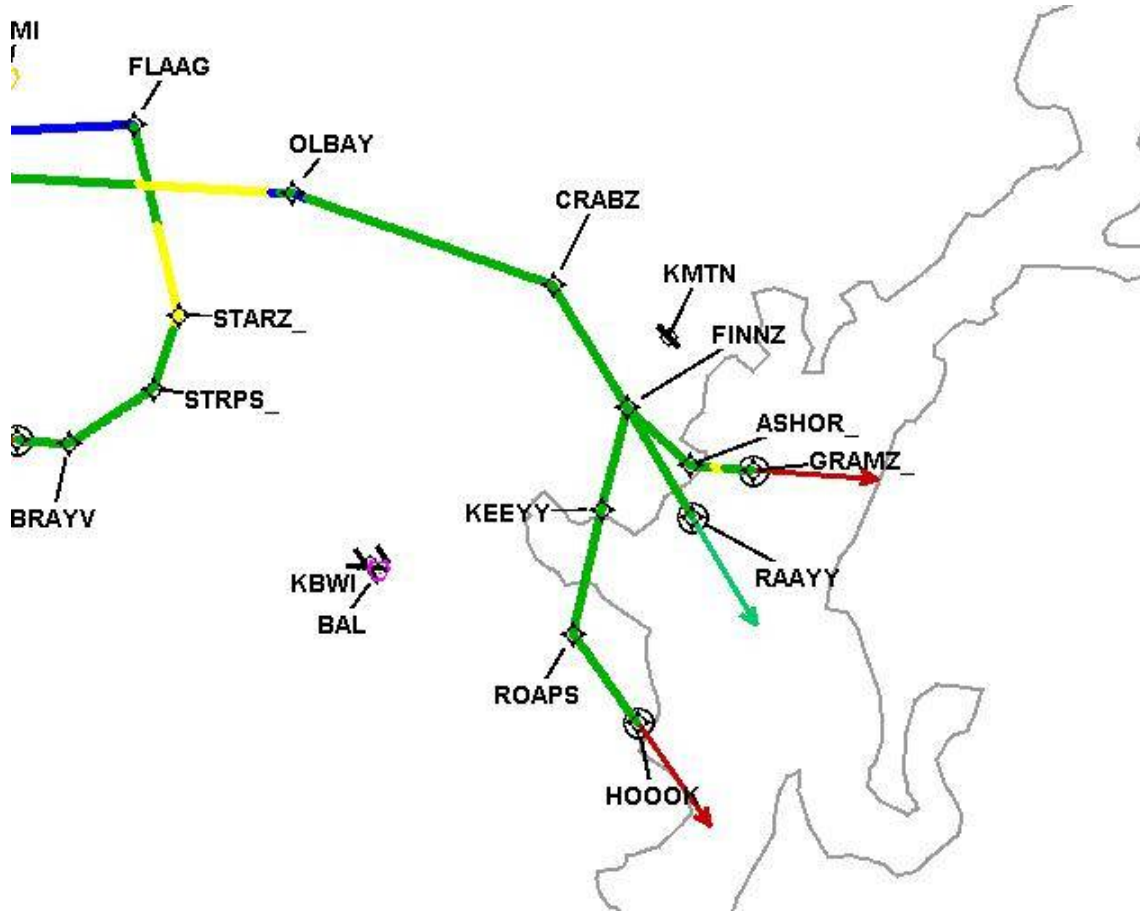
# DME DME Assessment Results for ANTHM4 path FINNZ\_GRAMZ\_

## DME Error



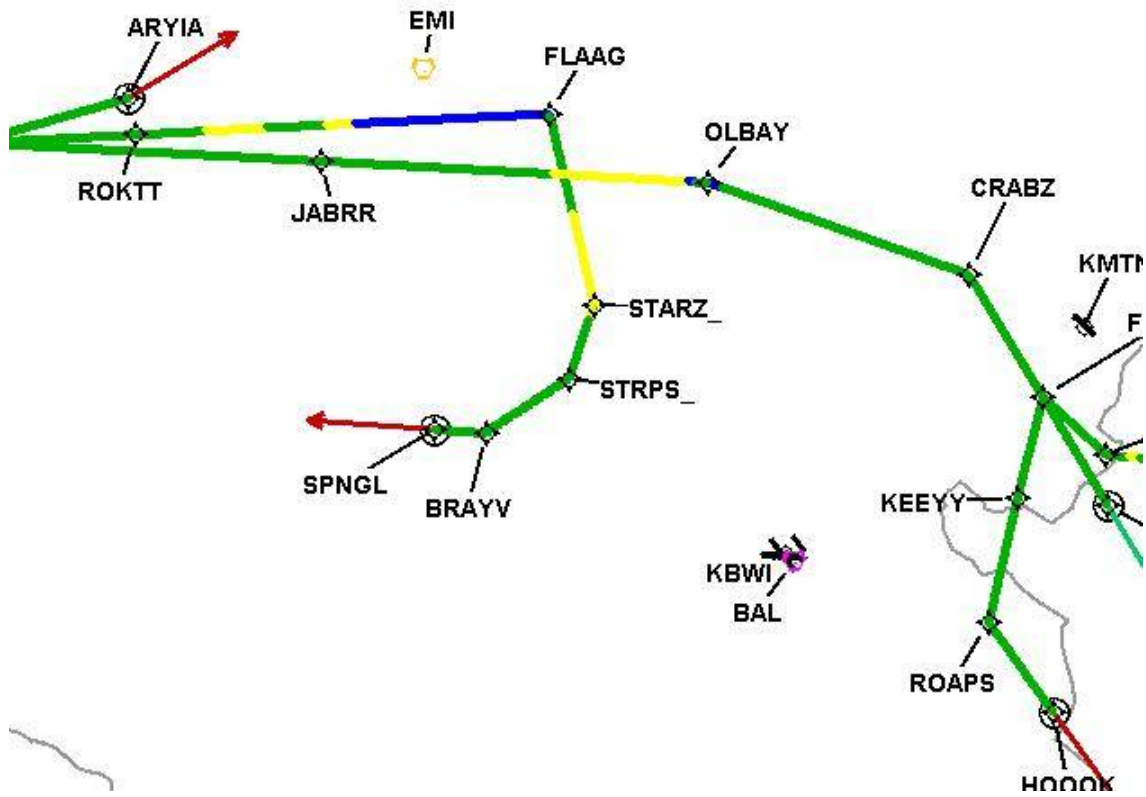
# DME DME Assessment Results for ANTHM4 path FINNZ\_GRAMZ\_

Graphic Depiction 1



# DME DME Assessment Results for ANTHM4 path FINNZ\_GRAMZ\_

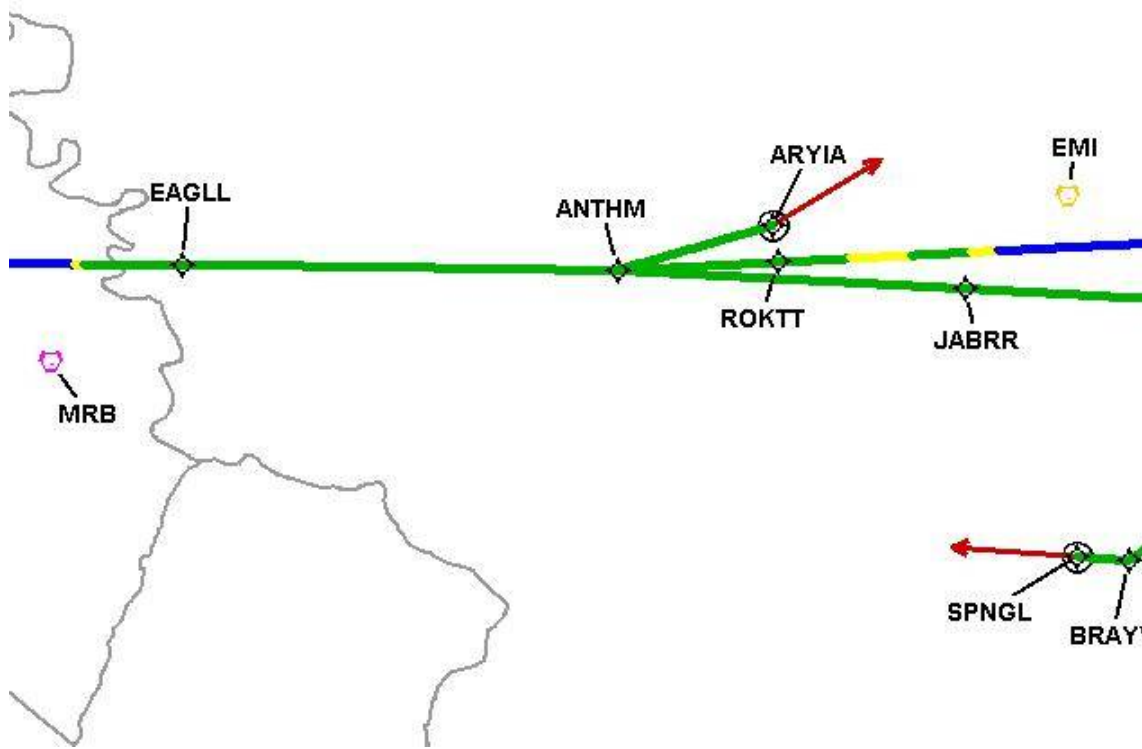
Graphic Depiction 2





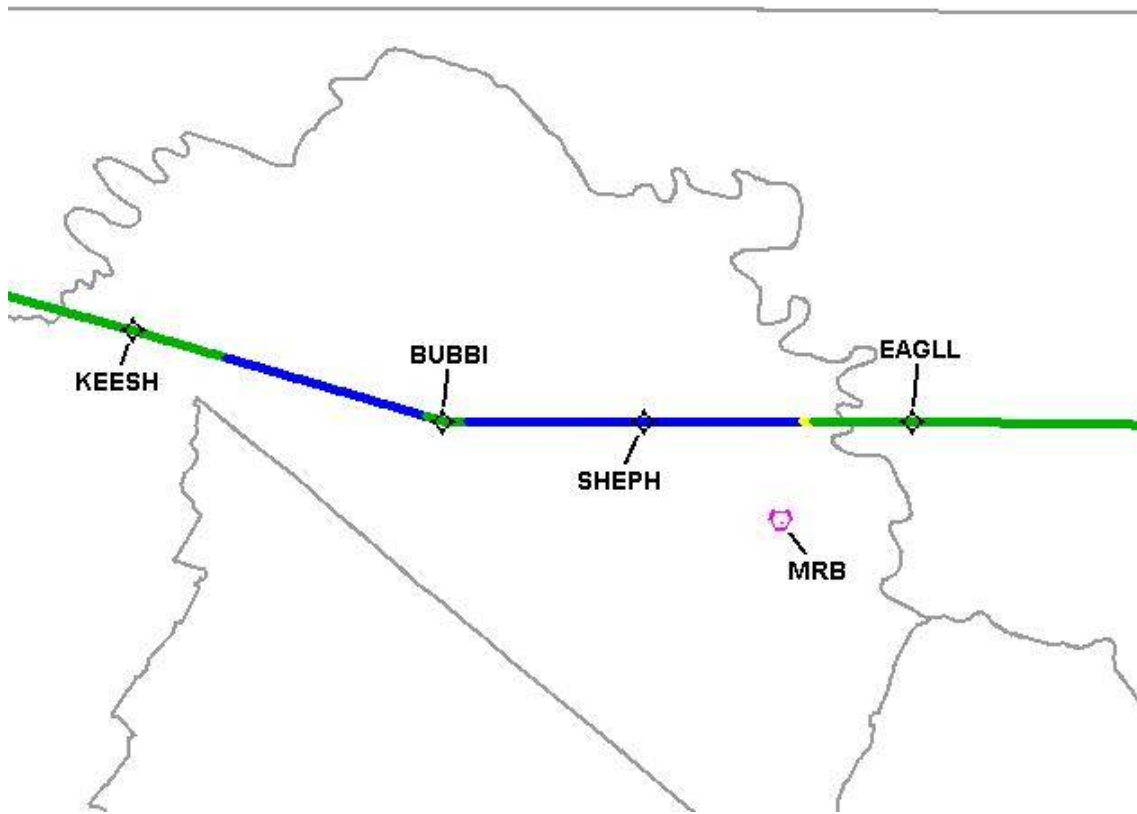
DME DME Assessment Results for ANTHM4 path FINNZ\_GRAMZ\_

Graphic Depiction 3

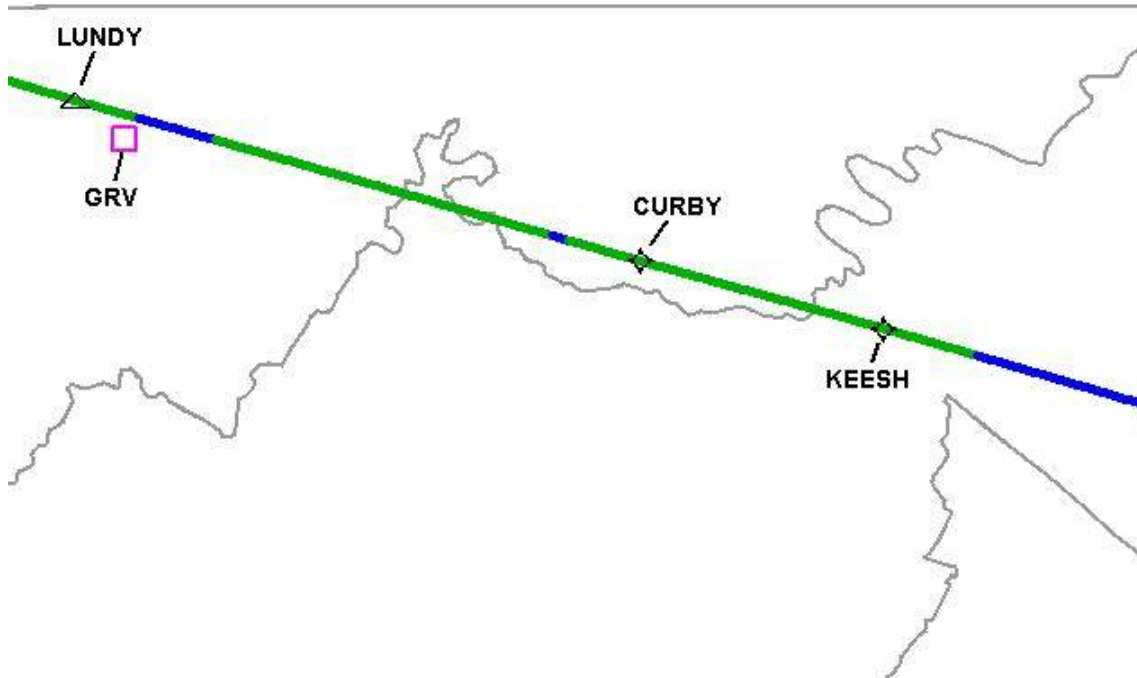


DME DME Assessment Results for ANTHM4 path FINNZ\_GRAMZ\_

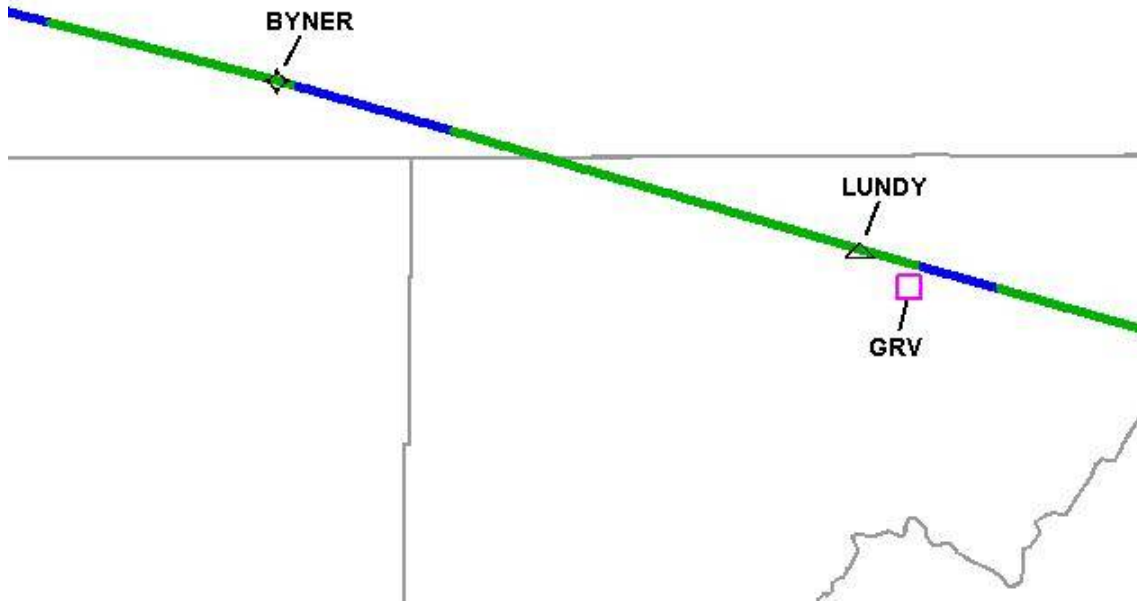
Graphic Depiction 4



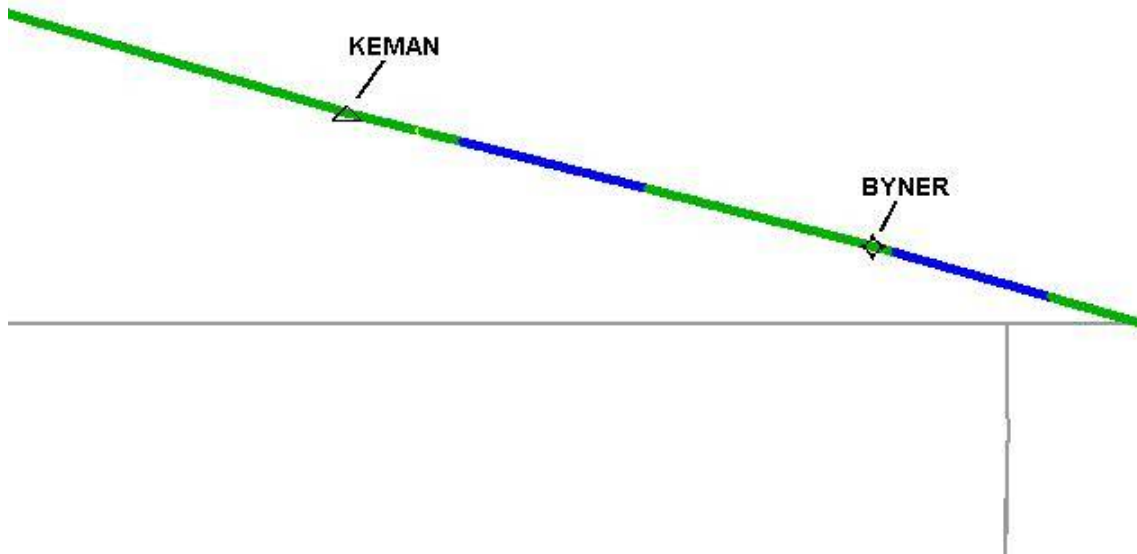
Graphic Depiction 5



Graphic Depiction 6

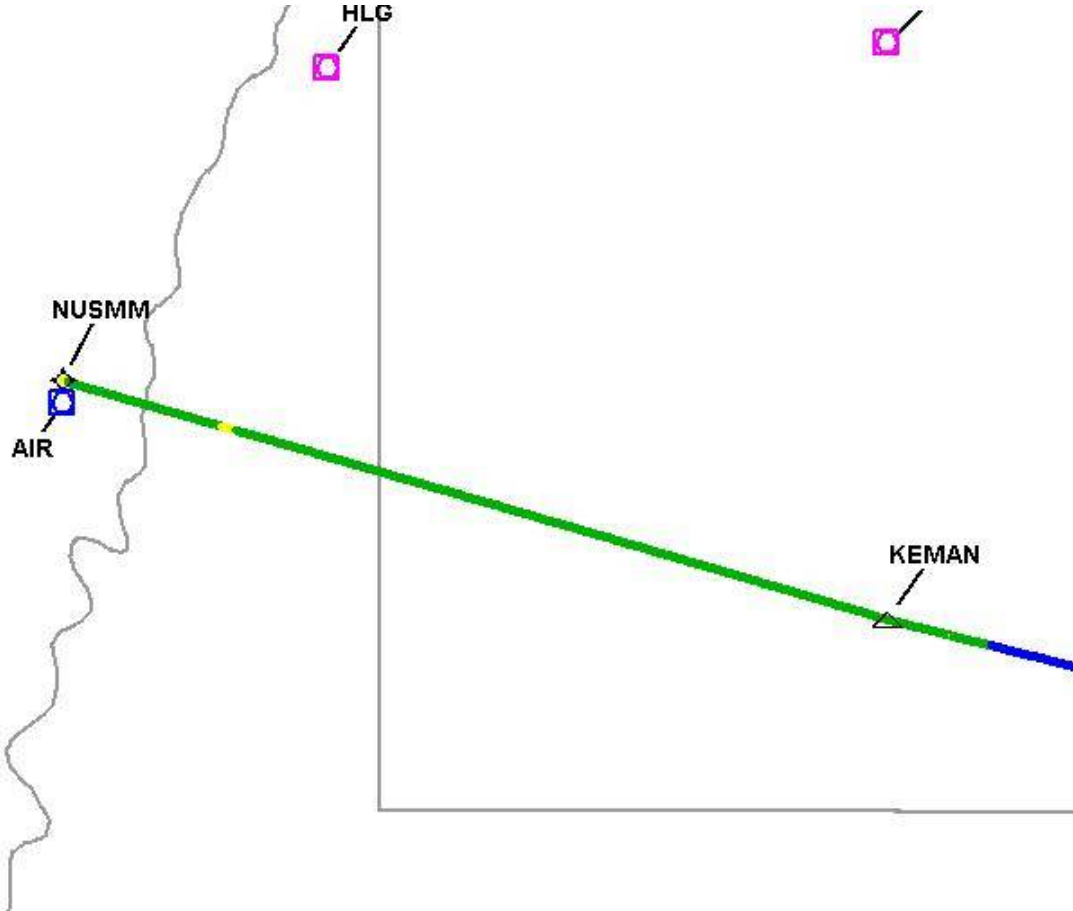


Graphic Depiction 7



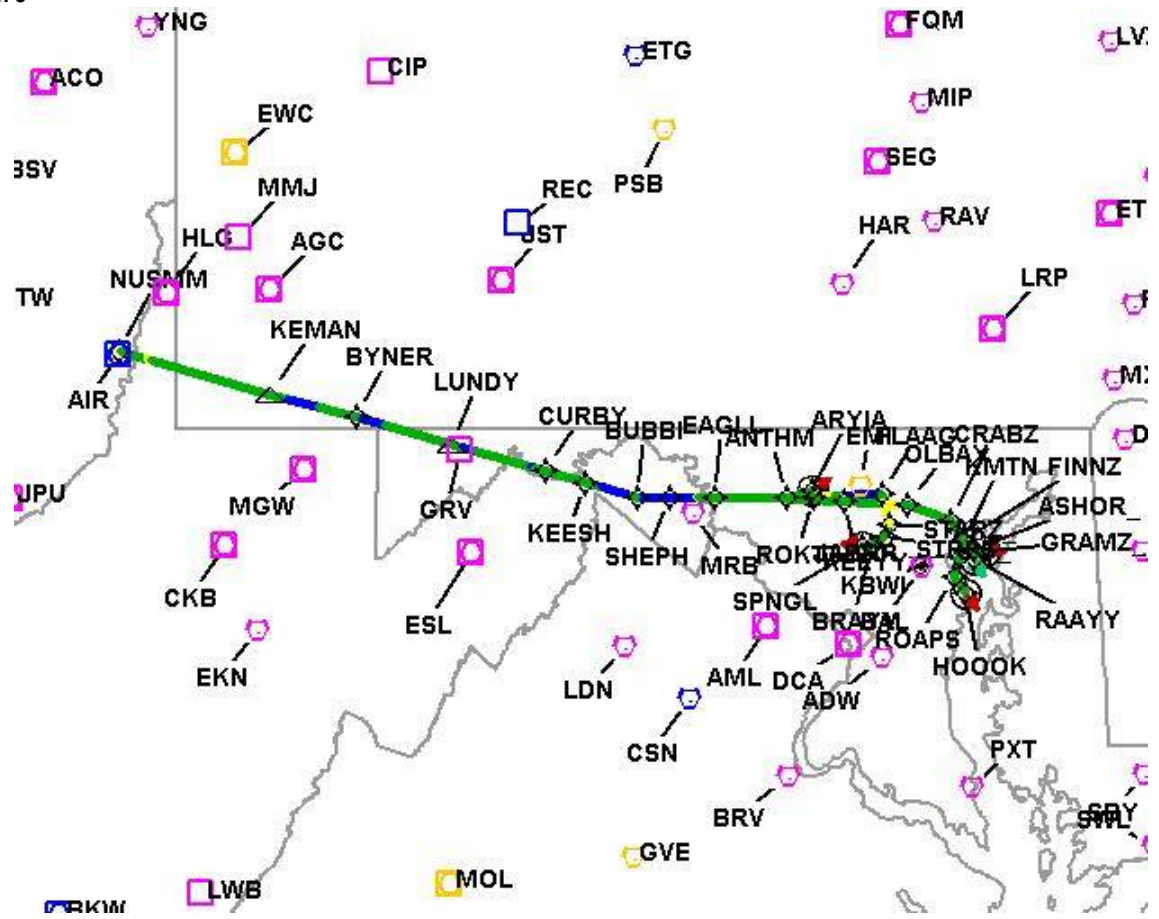
DME DME Assessment Results for ANTHM4 path FINNZ\_GRAMZ\_

Graphic Depiction 8



DME DME Assessment Results for ANTHM4 path FINNZ\_GRAMZ\_

Graphic Depiction 9



## DME DME Assessment Results for ANTHM4 path FINNZ\_RAAYY

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 ANTHM4 (RNAV) STAR DME DME_20231211 MITRE 3DEP 3 arcsec .auto-save.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] ANTHM4 20240207_0709 EST\FINNZ_RAAYY\KBWI ANTHM4 RNAV STAR FINNZ RAAYY 20240207_0709 EST.pdf
Procedure Name:	ANTHM4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 07:09 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
FINNZ	WP	N39° 16' 43.3000", W076° 26' 55.8700"	4500	VNAV	210	FLY_BY	TF
RAAYY	WP	N39° 12' 25.8800", W076° 23' 37.0900"	4000	VNAV	210	FLY_OVER	TF

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KBWI [IFPA]
Climb Gradient:	None assigned
Speeds:	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 ANTHM4 path FINNZ\_RAAYY

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:	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	100 %	100 %
2	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled	100 %	100 %
3	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled	100 %	100 %
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	ADW	EMI	BAL		

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

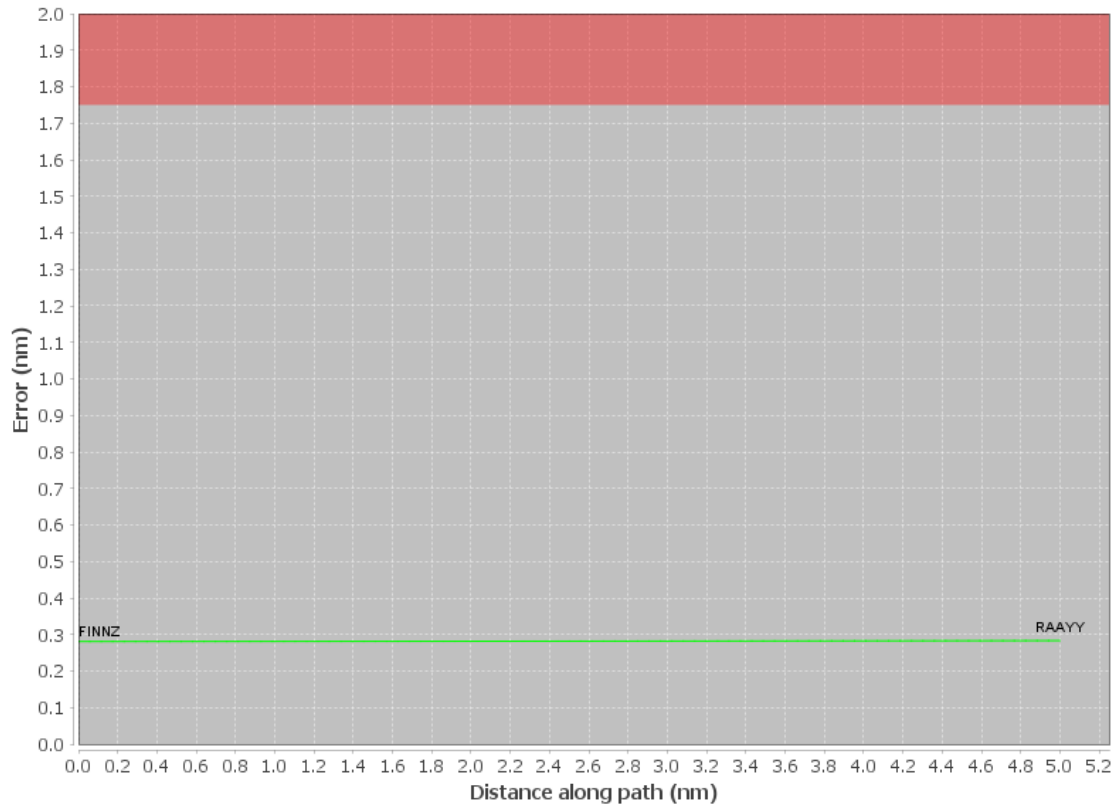
Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
FINNZ	RAAYY	EMI, ADW, BAL	

User Data Files	
#	File Name
1	New Analysis.udt

User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LDN LDN [IFPA]	N38° 51' 15.8344", W078° 12' 20.0559"	6.0 W	40	2435.3	114.3	LDN	
	ESV:	Bearing [True]: 330.0° to 354.0° Bearing [Mag]: 336.0° to 360.0°				Arc Distance: Out to 51.0 NM Altitude: 4700.0 to 20500.0 ft		

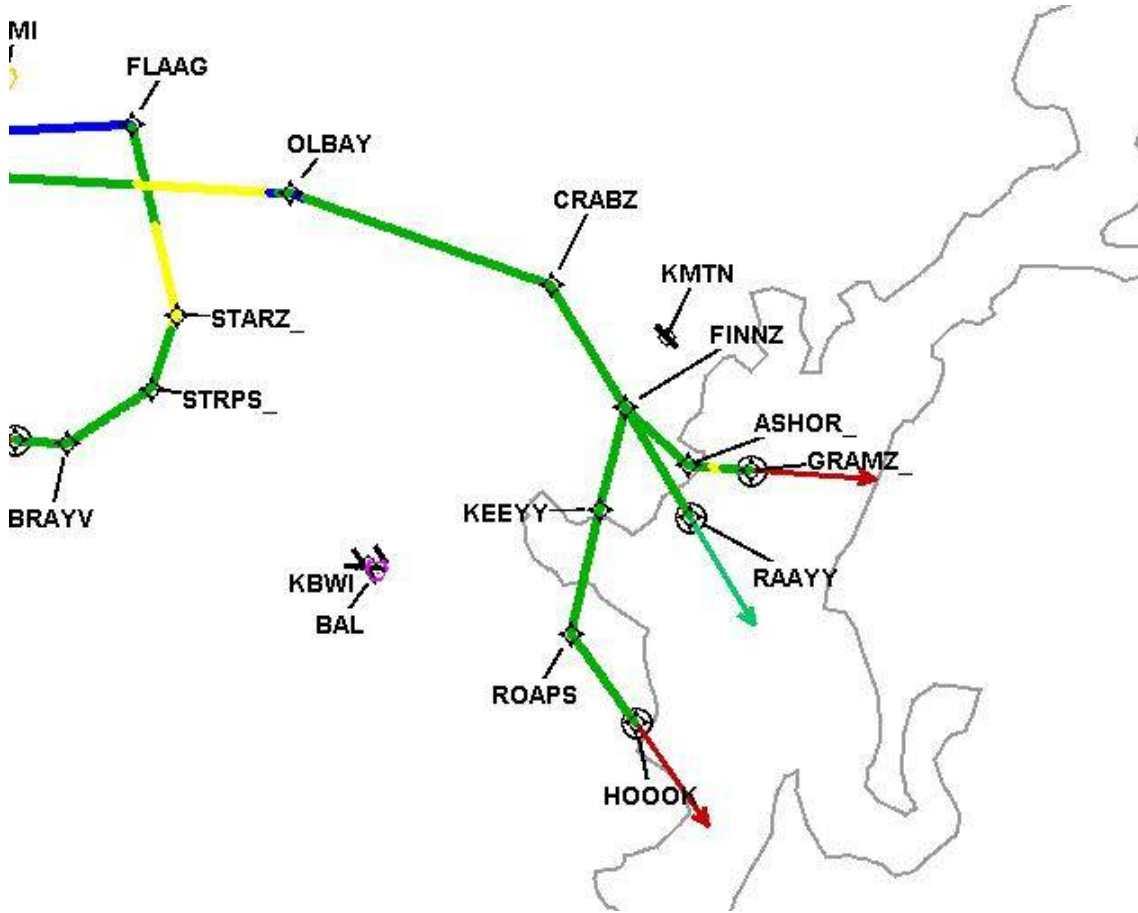
# DME DME Assessment Results for ANTHM4 path FINNZ\_RAAYY

## DME Error



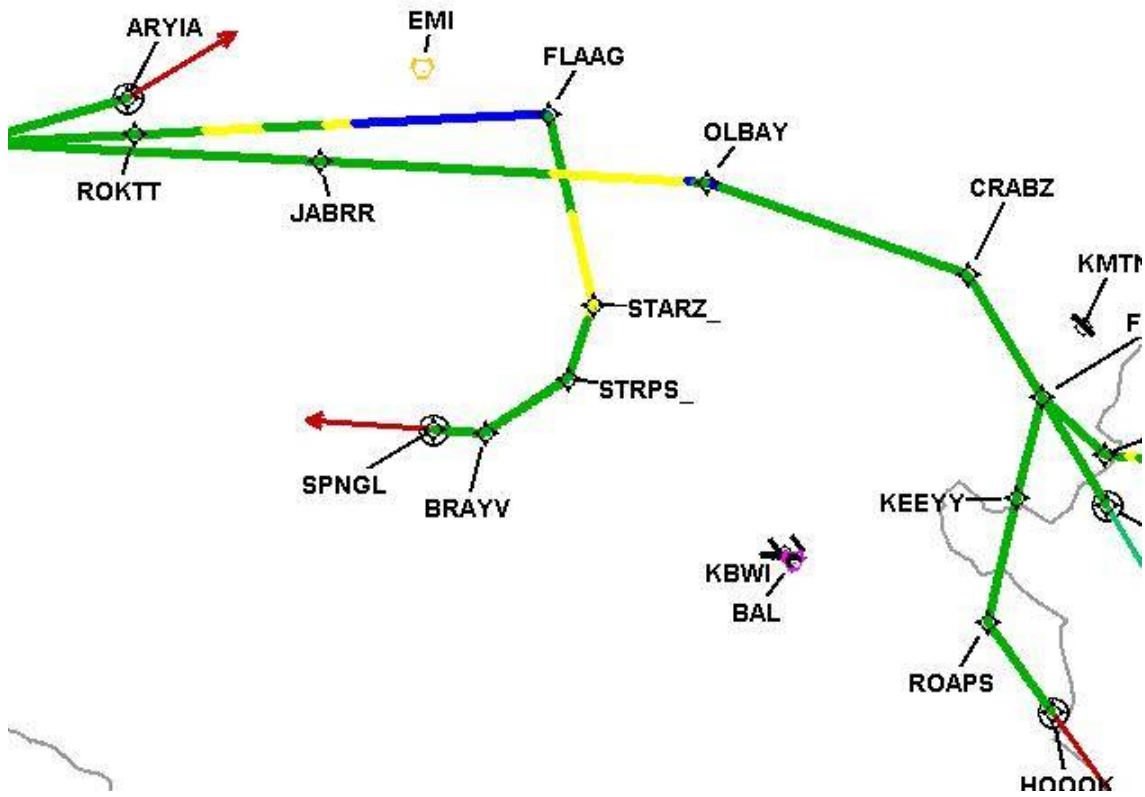
DME DME Assessment Results for ANTHM4 path FINNZ\_RAAYY

Graphic Depiction 1



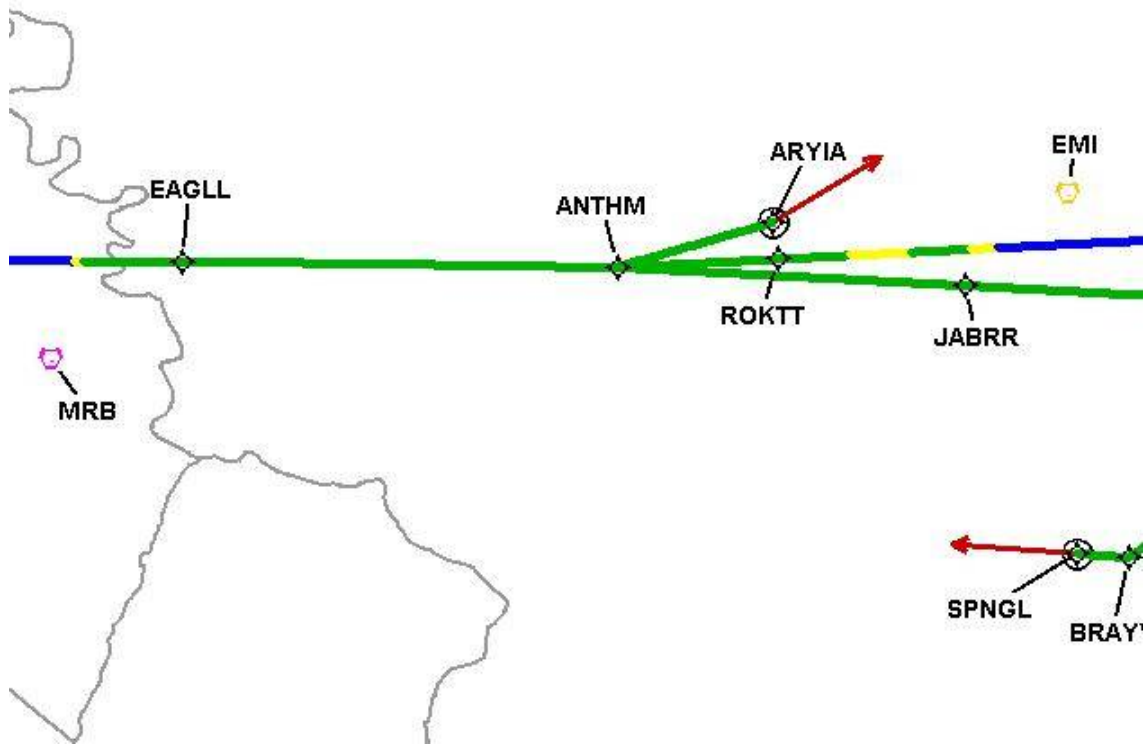
DME DME Assessment Results for ANTHM4 path FINNZ\_RAAYY

Graphic Depiction 2



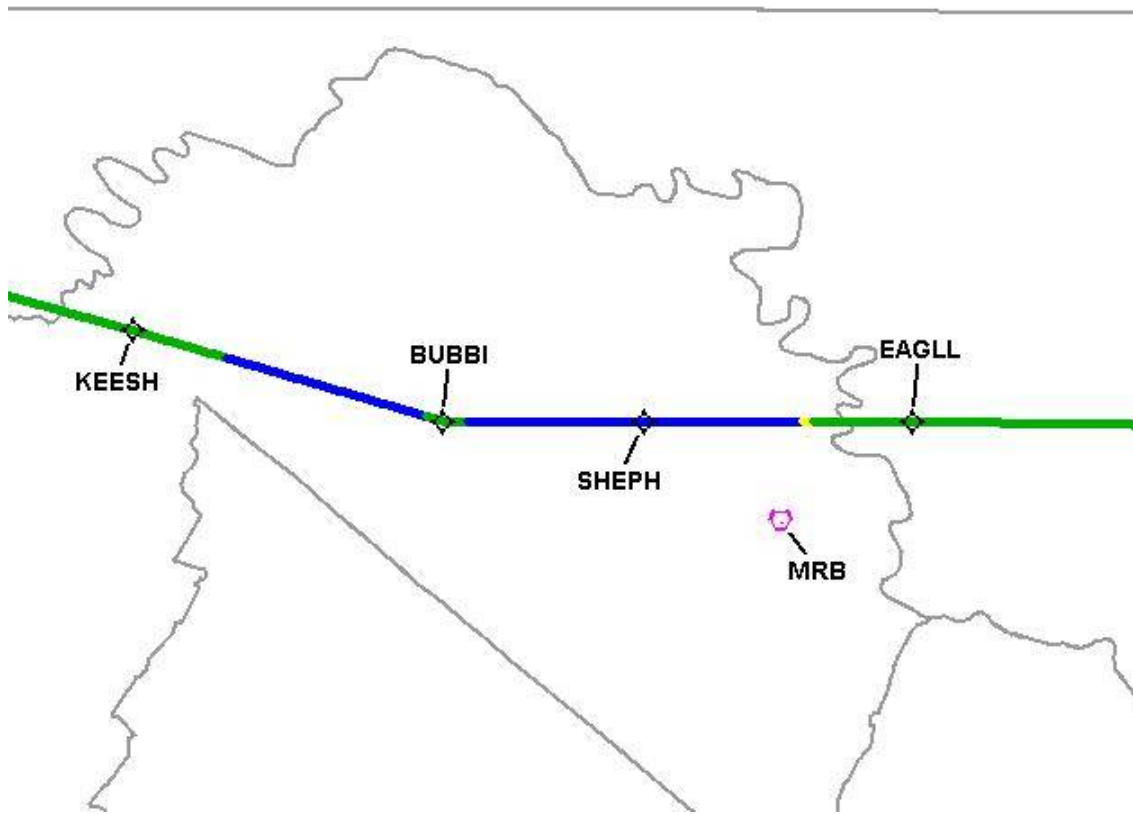
DME DME Assessment Results for ANTHM4 path FINNZ\_RAAYY

Graphic Depiction 3



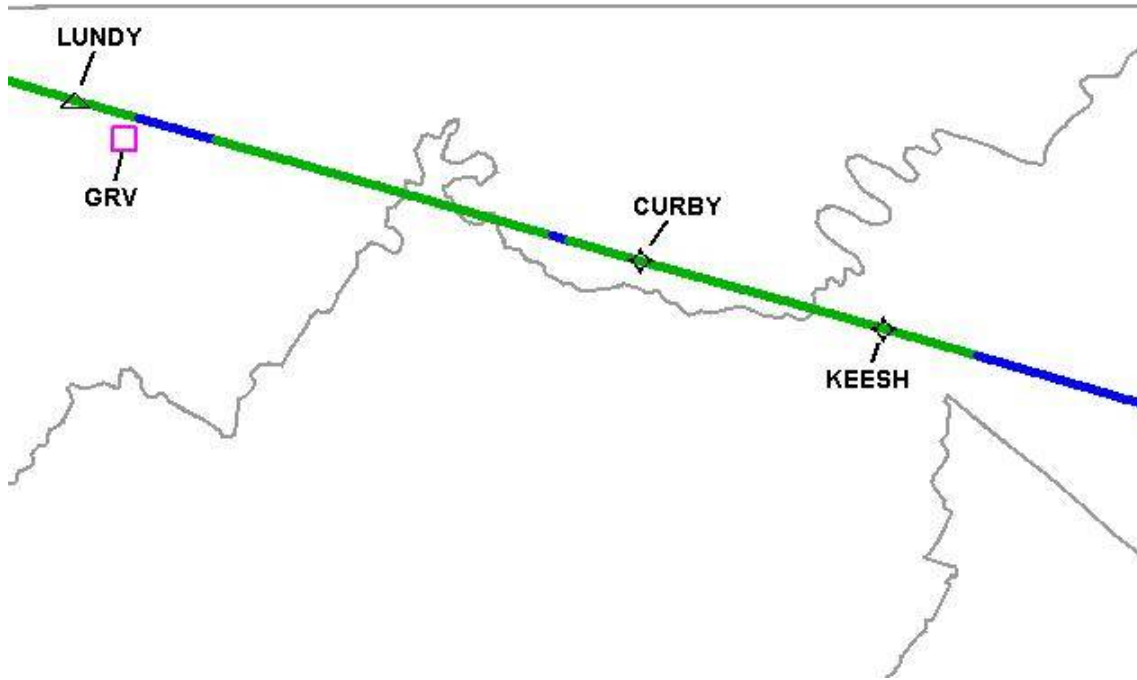
DME DME Assessment Results for ANTHM4 path FINNZ\_RAAYY

Graphic Depiction 4



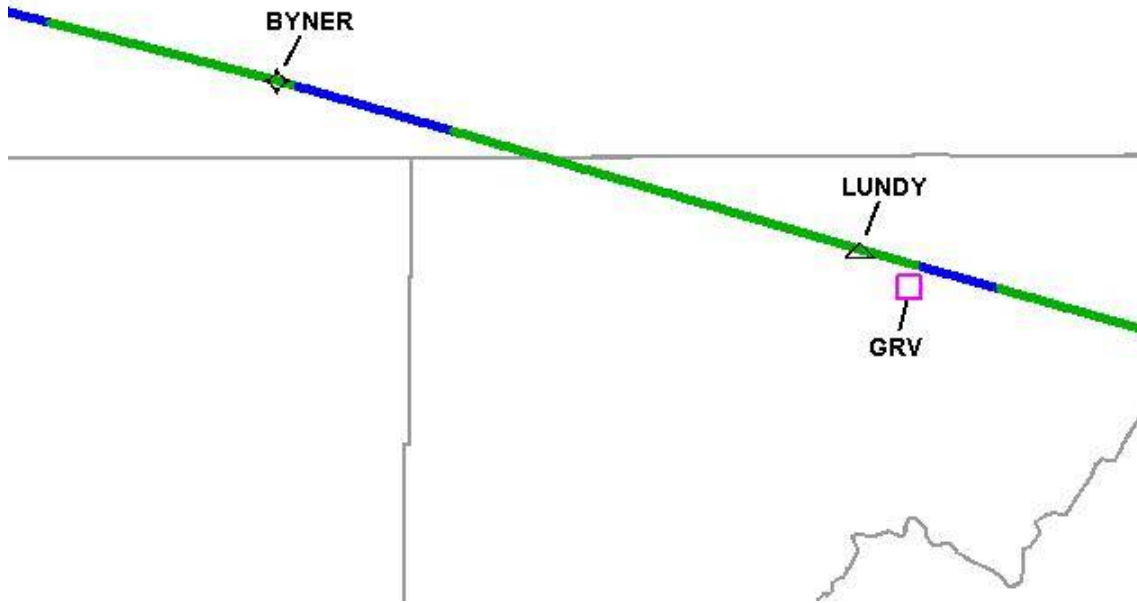
DME DME Assessment Results for ANTHM4 path FINNZ\_RAAYY

Graphic Depiction 5



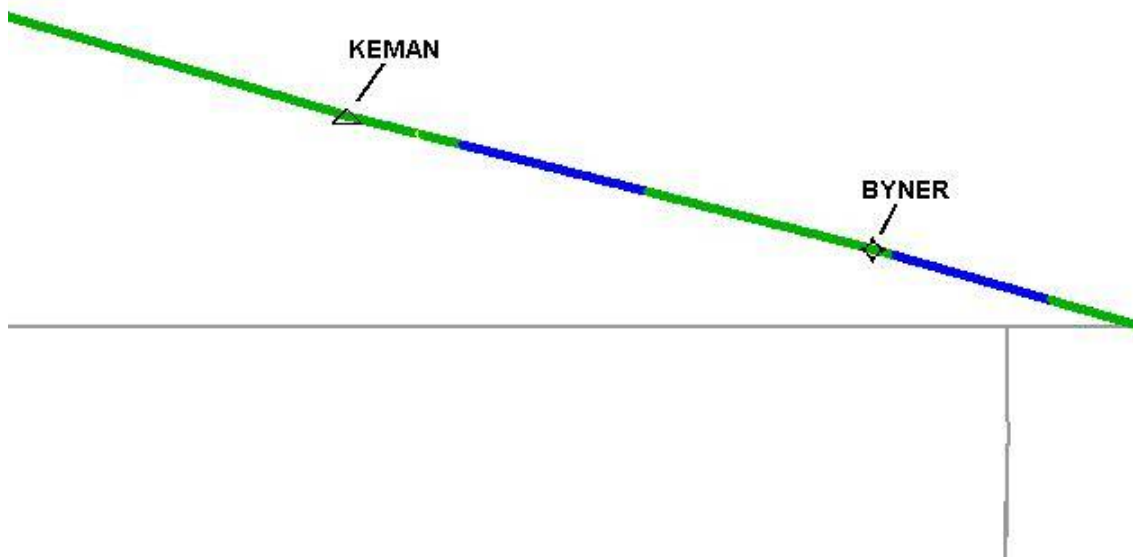
DME DME Assessment Results for ANTHM4 path FINNZ\_RAAYY

Graphic Depiction 6



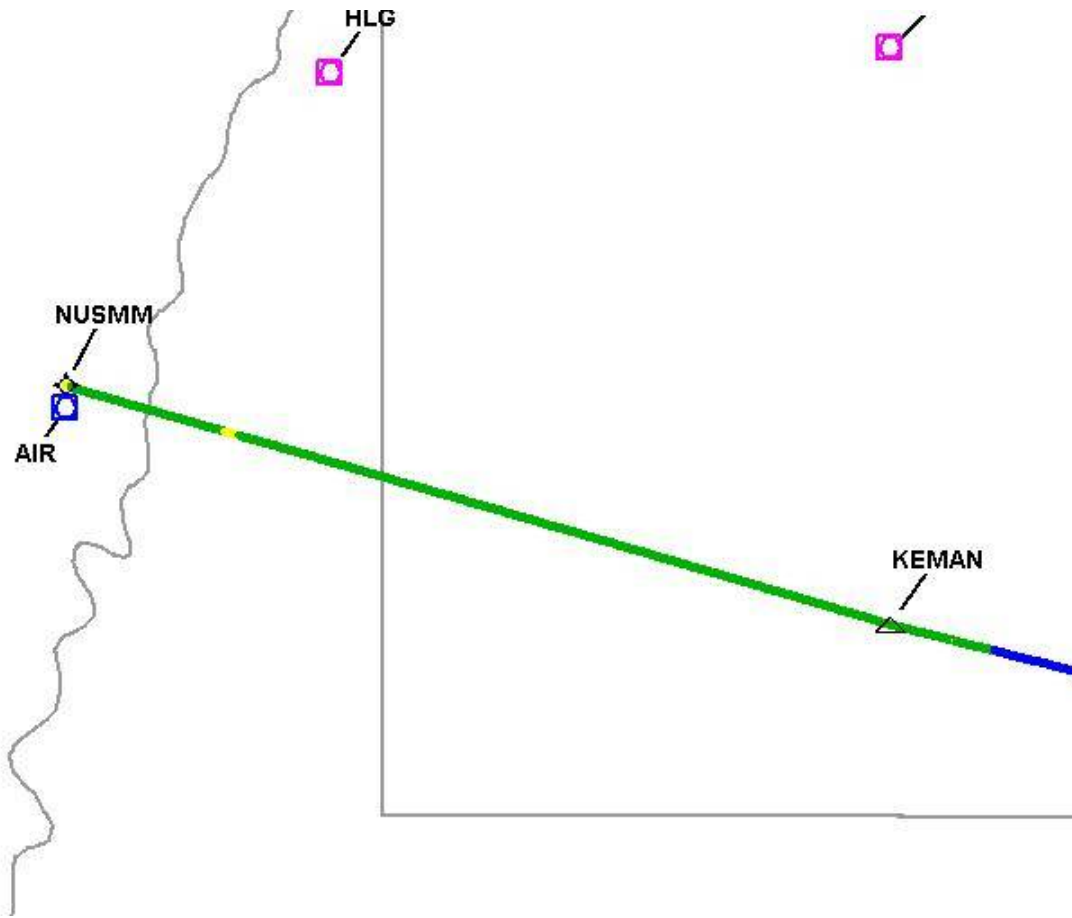


Graphic Depiction 7



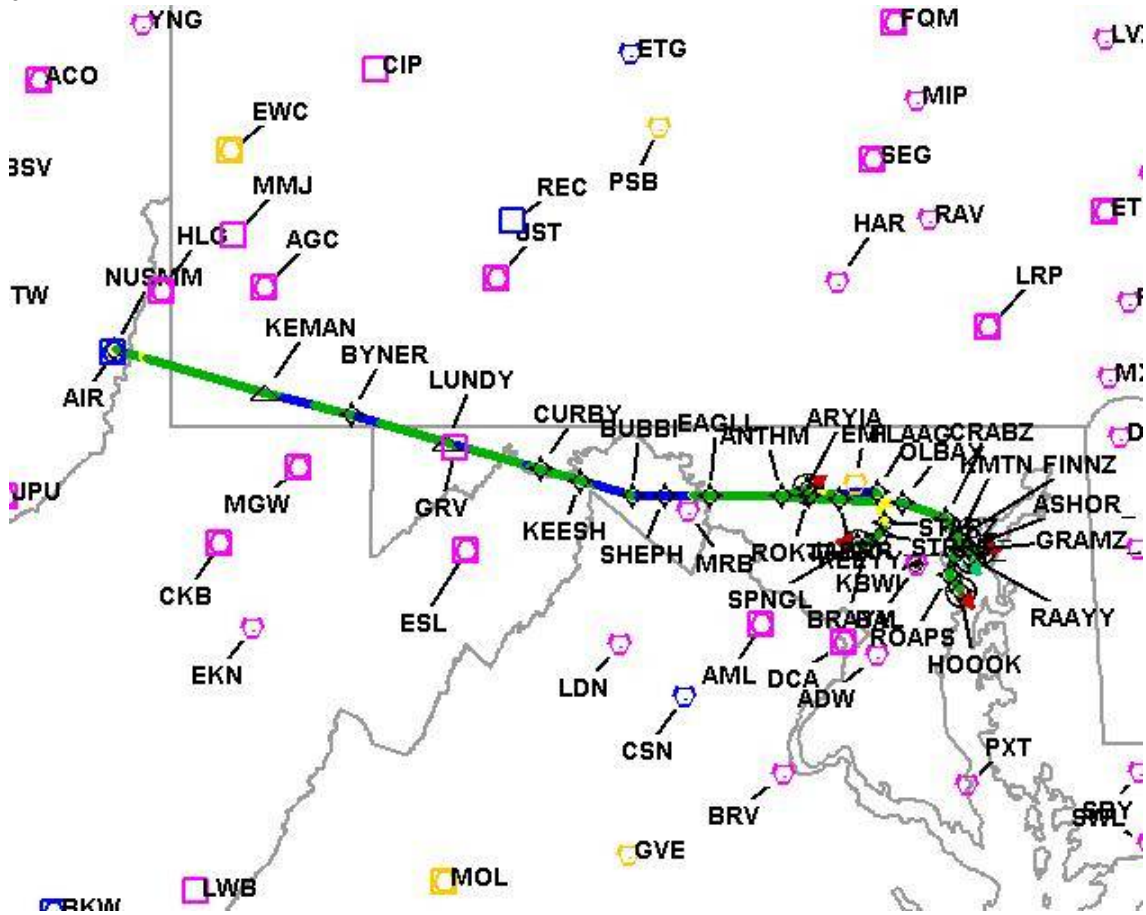
DME DME Assessment Results for ANTHM4 path FINNZ\_RAAYY

Graphic Depiction 8



DME DME Assessment Results for ANTHM4 path FINNZ\_RAAYY

Graphic Depiction 9



## DME DME Assessment Results for ANTHM4 path NUSMM\_HOOOK

### 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 ANTHM4 (RNAV) STAR DME DME_20231211 MITRE 3DEP 3 arcsec .auto-save.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\KBWI\LOWER RUNS FOR CHRIS\KBWI [IFPA] ANTHM4 20240207_0709 EST\NUSMM_HOOOK\KBWI ANTHM4 RNAV STAR NUSMM HOOOK 20240207_0709 EST.pdf
Procedure Name:	ANTHM4
Software: DmeDmePlugin:	7.2.1
Date/Time:	02/07/2024 07:09 EST
Databases:	MITRE 3DEP 3 arcsec

### Failures

No Failures

### Warnings

No Warnings

### Informational

No Informational

### Notes For Flight Check

None

**DME DME Assessment Results for ANTHM4 path NUSMM\_HOOOK**

<b>Flight Plan</b>							
Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
NUSMM	WP	N40° 02' 01.2900", W080° 49' 02.0200"	5300	VNAV	280	FLY_BY	TF
KEMAN	WP	N39° 51' 37.8100", W080° 02' 30.1500"	5300	VNAV	280	FLY_BY	TF
BYNER	WP	N39° 46' 21.4200", W079° 35' 32.4600"	5300	VNAV	280	FLY_BY	TF
LUNDY	WP	N39° 39' 39.4000", W079° 05' 34.5700"	5300	VNAV	280	FLY_BY	TF
CURBY	WP	N39° 33' 17.9600", W078° 36' 35.7400"	5300	VNAV	280	FLY_BY	TF
KEESH	WP	N39° 30' 38.3300", W078° 24' 08.1400"	4800	VNAV	280	FLY_BY	TF
BUBBI	WP	N39° 27' 03.2900", W078° 08' 14.7100"	4800	VNAV	280	FLY_BY	TF
SHEPH	WP	N39° 27' 03.3100", W077° 57' 55.0500"	4800	VNAV	280	FLY_BY	TF
EAGLL	WP	N39° 27' 02.0800", W077° 44' 07.7100"	4500	VNAV	280	FLY_BY	TF
ANTHM	WP	N39° 26' 47.5600", W077° 21' 47.6700"	4500	VNAV	280	FLY_BY	TF
JABRR	WP	N39° 26' 04.4600", W077° 03' 57.5700"	4500	VNAV	250	FLY_BY	TF
OLBAY	WP	N39° 25' 13.3200", W076° 44' 07.7600"	4500	VNAV	250	FLY_BY	TF
CRABZ	WP	N39° 21' 34.8100", W076° 30' 45.5700"	4500	VNAV	250	FLY_BY	TF
FINNZ	WP	N39° 16' 43.3000", W076° 26' 55.8700"	4500	VNAV	210	FLY_BY	TF
KEEYY	WP	N39° 12' 43.1600", W076° 28' 15.6200"	4000	VNAV	210	FLY_BY	TF
ROAPS	WP	N39° 07' 48.1000", W076° 29' 43.7200"	4000	VNAV	210	FLY_BY	TF
HOOOK	WP	N39° 04' 15.2100", W076° 26' 26.8400"	4000	VNAV	210	FLY_OVER	TF

<b>Flyability</b>	
Flight Type:	RNAV_STAR
Selected Airport:	KBWI [IFPA]
Climb Gradient:	None assigned
Speeds:	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 ANTHM4 path NUSMM\_HOOOK**

<b>DME/DME</b>	
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:	Enabled
Disabled DMEs:	FKN

<b>DME/DME (Continued)</b>										
<b>DMEs Used</b>										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	ZZV	N39° 56' 27.0911", W081° 53' 33.3687"	6.0 W	130	DH	IFPA	NO	Enabled	9.4 %	9.8 %
2	CTW	N40° 13' 45.1510", W081° 28' 35.3160"	0.0 E	40	L	IFPA	NO	Enabled	3.2 %	3.4 %
3	GRV	N39° 38' 06.1120", W079° 03' 01.9000"	-0.0 E	40	L	IFPA	NO	Enabled	7.3 %	7.6 %
4	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled	12.5 %	10.5 %
5	MRB	N39° 23' 08.0600", W077° 50' 54.0820"	7.0 W	40	L	IFPA	NO	Enabled	20.7 %	21.5 %
6	AGC	N40° 16' 43.1179", W080° 02' 27.0769"	9.0 W	40	L	IFPA	NO	Enabled	21.7 %	22.5 %
7	CKB	N39° 15' 11.5841", W080° 16' 04.3018"	4.0 W	40	L	IFPA	NO	Enabled	0 %	0 %
8	LDN	N38° 51' 15.8344", W078° 12' 20.0559"	6.0 W	40	L	IFPA	NO	Enabled	7.8 %	8.1 %
9	HLG	N40° 15' 35.6465", W080° 34' 07.0494"	7.0 W	40	L	IFPA	NO	Enabled	18 %	18.6 %
10	MMJ	N40° 29' 16.8000", W080° 11' 37.8000"	0.0 E	40	L	IFPA	NO	Enabled	10.7 %	11.1 %
11	AIR	N40° 00' 59.7814", W080° 49' 01.9382"	7.0 W	130	H	IFPA	NO	Enabled	15.2 %	15.8 %
12	MGW	N39° 33' 24.1749", W079° 51' 37.4843"	5.0 W	40	L	IFPA	NO	Enabled	23.1 %	23.9 %
13	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled	27 %	24.4 %
14	ESL	N39° 13' 31.7740", W078° 59' 22.2000"	6.0 W	40	L	IFPA	NO	Enabled	21.4 %	22.2 %
15	AML	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	L	IFPA	NO	Enabled	16.4 %	16.9 %
16	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled	34.9 %	32.9 %
17	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled	18.2 %	16.1 %
18	FKN	N36° 42' 51.2443", W077° 00' 44.5488"	9.0 W	40	L	IFPA	NO	Disabled		

**DME DME Assessment Results for ANTHM4 path NUSMM\_HOOOK**

<b>Flight Check DME Selection</b>						
<b>Distance [NM]</b>	<b>Selected DMEs</b>					<b>Alternate</b>
0.0	CTW	HLG	MMJ	AGC	ZZV	
0.2	CTW	HLG	ZZV			
1.6	CTW	HLG	ZZV	AGC		
4.7	CTW	HLG	AIR	ZZV	AGC	
7.6	HLG	AIR	ZZV	MMJ	AGC	
22.0	MMJ	AIR	MGW	AGC	HLG	
32.0	AGC	AIR	HLG	MGW		
34.0	AGC	AIR	HLG			
34.5	AGC	AIR	HLG	MGW		
40.1	CKB	AIR	AGC	HLG	MMJ	MGW
40.3	HLG	AGC				
41.8						
49.4	MGW	AGC				
59.5						
65.9	MGW	ESL				
68.6	MGW	ESL	GRV			
71.8	MGW	ESL				
85.2						
88.4	ESL	GRV				
102.3						
103.0	MRB	ESL				
103.4	MRB	ESL	LDN			
119.9						
128.2	MRB	LDN				
129.8						
143.2	MRB	EMI	AML	LDN		
143.6	AML	EMI				
145.4	AML	EMI	MRB			
168.8	AML	BAL	MRB	EMI		
170.7	DCA	EMI	MRB	AML	BAL	
175.1	AML	BAL	DCA	EMI		
179.6	AML	BAL	DCA			
181.2	BAL	DCA				
185.9	DCA	EMI	BAL			
187.9	DCA	EMI	ADW	BAL		
193.2						
193.5	BAL	EMI				
194.1						
194.6	BAL	EMI				
206.1	ADW	EMI	BAL			
210.8	ADW	EMI	DCA	BAL		

**DME DME Assessment Results for ANTHM4 path NUSMM\_HOOOK**

<b>Inertial Drift Segments</b>			
#	Start Location	End Location	Length [NM]
1	N39° 50' 30.7031", W079° 56' 43.9936"	N39° 48' 39.7512", W079° 47' 15.2970"	7.5324
2	N39° 46' 07.2874", W079° 34' 28.5649"	N39° 44' 21.6272", W079° 26' 32.4846"	6.3674
3	N39° 38' 59.0581", W079° 02' 28.8427"	N39° 38' 07.2494", W078° 58' 30.9672"	3.1818
4	N39° 34' 19.4763", W078° 41' 13.5961"	N39° 34' 07.9560", W078° 40' 21.4877"	0.6984
5	N39° 29' 34.6966", W078° 19' 24.8300"	N39° 27' 15.0755", W078° 09' 06.6732"	8.3097
6	N39° 27' 03.3395", W078° 07' 02.5166"	N39° 27' 02.7762", W077° 49' 43.4412"	13.3931
7	N39° 25' 16.1707", W076° 45' 12.0616"	N39° 25' 15.2216", W076° 44' 50.6276"	0.2773
8	N39° 25' 13.3200", W076° 44' 07.7600"	N39° 25' 02.3626", W076° 43' 27.3650"	0.5527

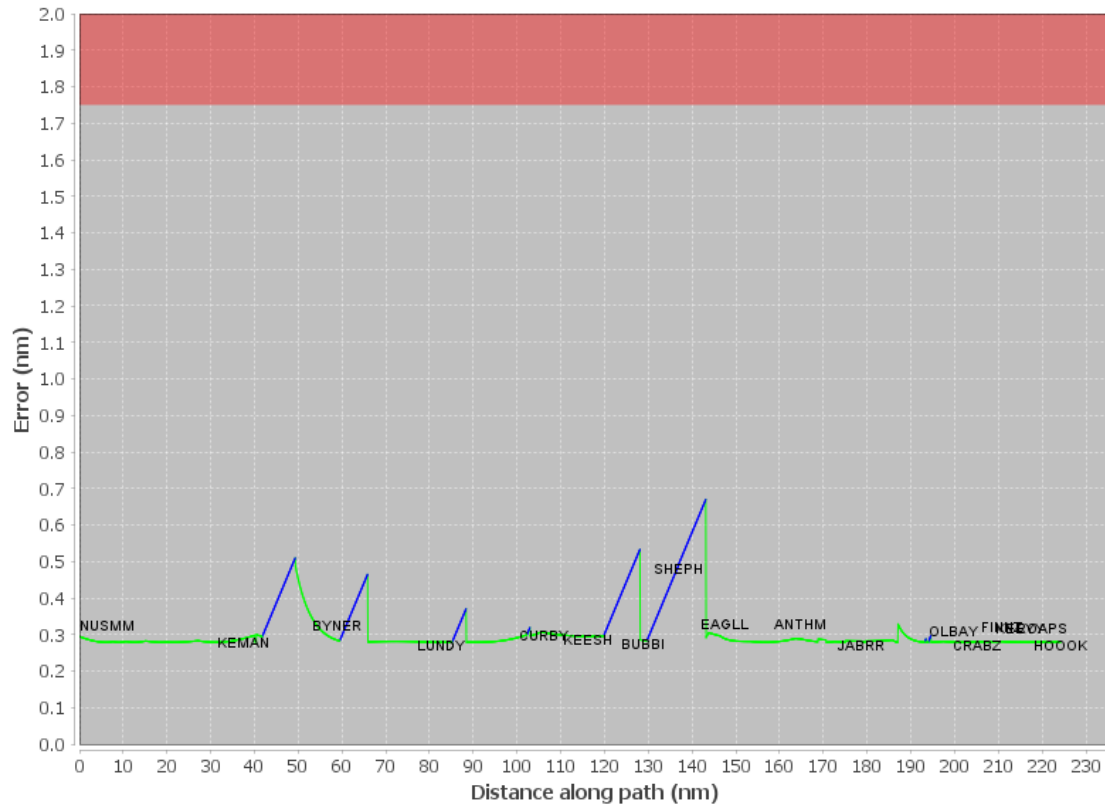
<b>Available DMEs by Waypoints</b>			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
NUSMM	KEMAN	HLG, CTW, ZZV, AIR, MMJ, MGW, AGC	
KEMAN	BYNER	HLG, AIR, CKB, MMJ, MGW, AGC	
BYNER	LUNDY	GRV, MGW, AGC, ESL	
LUNDY	CURBY	LDN, GRV, MGW, MRB, ESL	
CURBY	KEESH	LDN, MRB, ESL	
KEESH	BUBBI	LDN, MRB, ESL	
BUBBI	SHEPH	LDN, MRB	
SHEPH	EAGLL	AML, EMI, LDN, MRB	
EAGLL	ANTHM	AML, EMI, MRB	
ANTHM	JABRR	AML, EMI, DCA, MRB, BAL	
JABRR	OLBAY	AML, EMI, DCA, ADW, BAL	
OLBAY	CRABZ	EMI, BAL	
CRABZ	FINNZ	EMI, ADW, BAL	
FINNZ	KEEYY	EMI, DCA, ADW, BAL	
KEEYY	ROAPS	EMI, DCA, ADW, BAL	
ROAPS	HOOOK	EMI, DCA, ADW, BAL	

<b>User Data Files</b>								
#	File Name							
1	New Analysis.udt							
<b>User DMEs</b>								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LDN LDN [IFPA]	N38° 51' 15.8344", W078° 12' 20.0559"	6.0 W	40	2435.3	114.3	LDN	
	ESV:	Bearing [True]: 330.0° to 354.0° Bearing [Mag]: 336.0° to 360.0°				Arc Distance: Out to 51.0 NM Altitude: 4700.0 to 20500.0 ft		



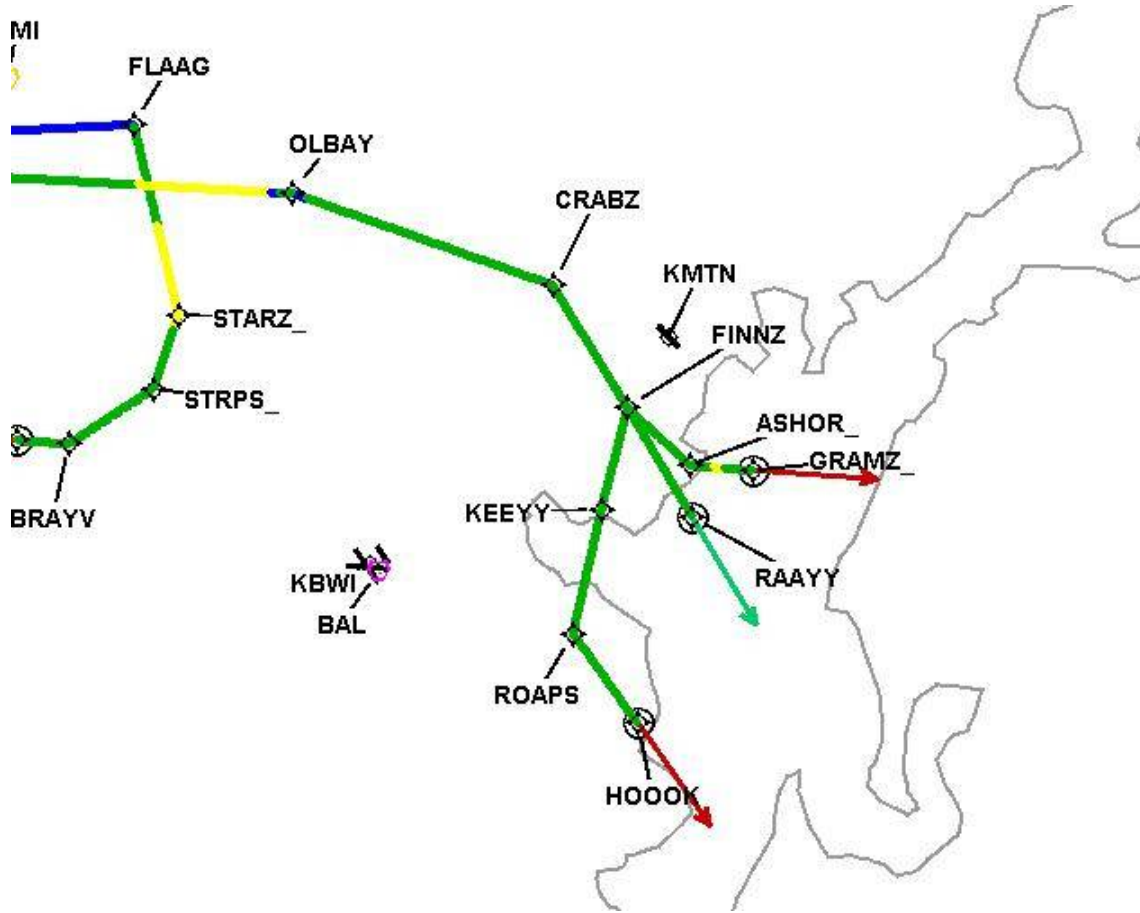
# DME DME Assessment Results for ANTHM4 path NUSMM\_HOOCK

## DME Error



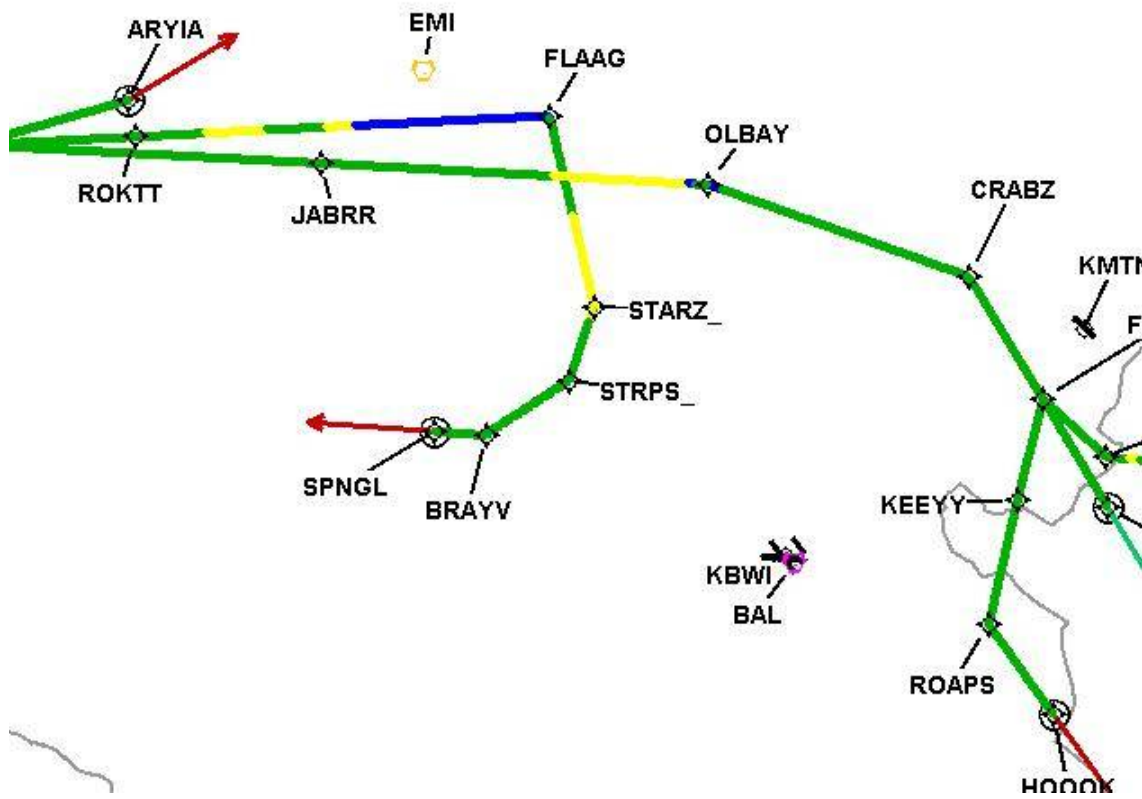
# DME DME Assessment Results for ANTHM4 path NUSMM\_HOOOK

Graphic Depiction 1



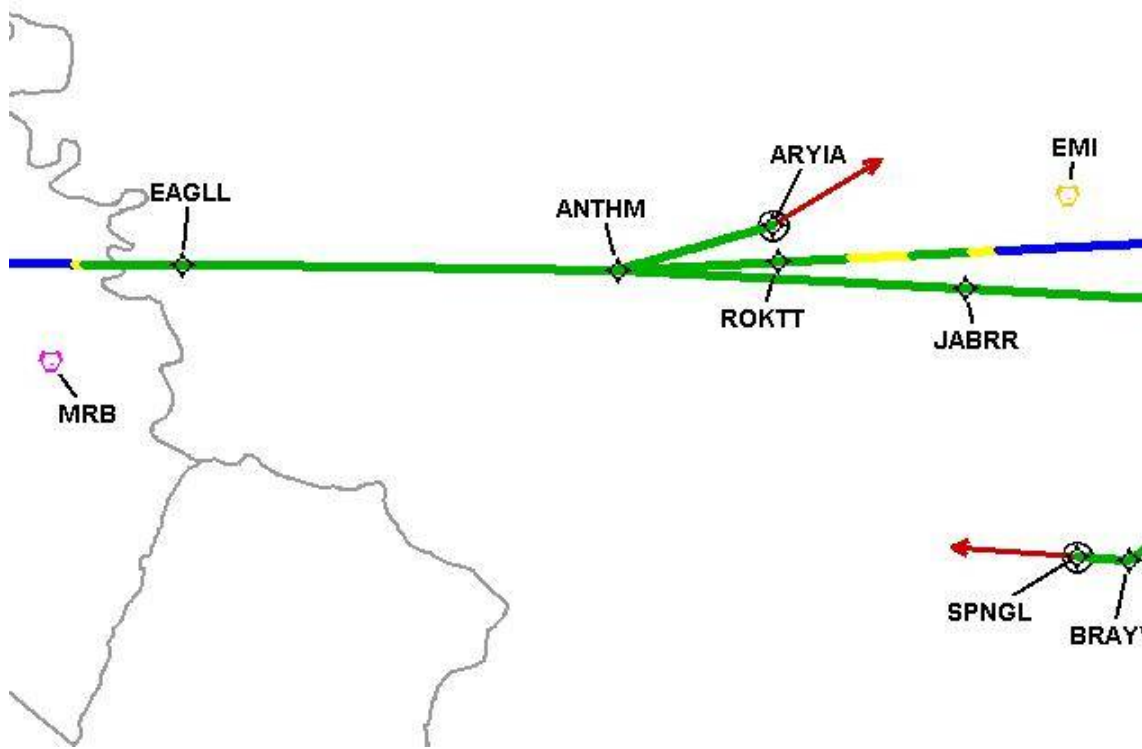
# DME DME Assessment Results for ANTHM4 path NUSMM\_HOOOK

Graphic Depiction 2



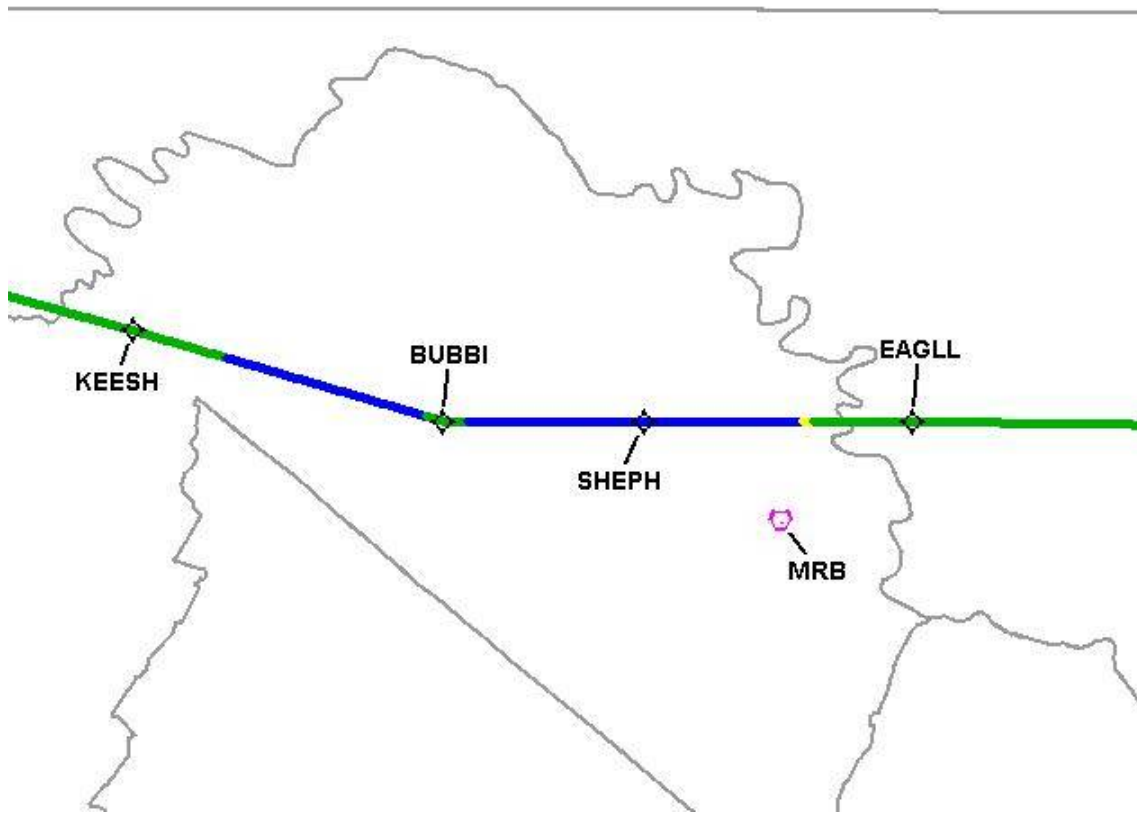
# DME DME Assessment Results for ANTHM4 path NUSMM\_HOOCK

Graphic Depiction 3



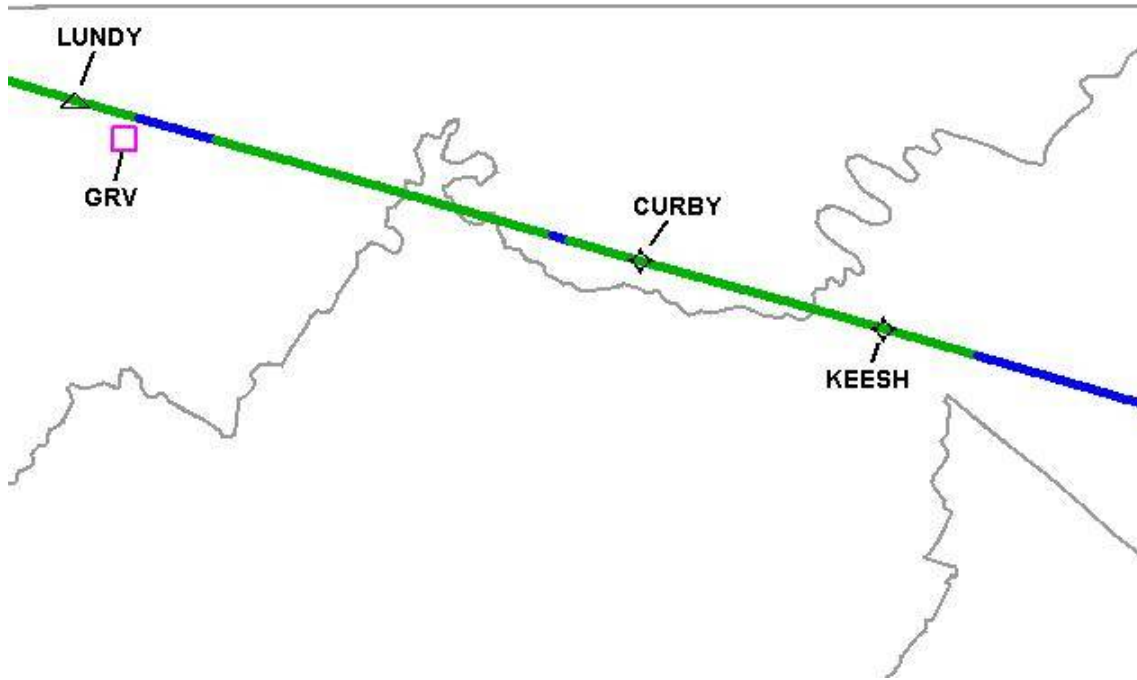
DME DME Assessment Results for ANTHM4 path NUSMM\_HOOOK

Graphic Depiction 4



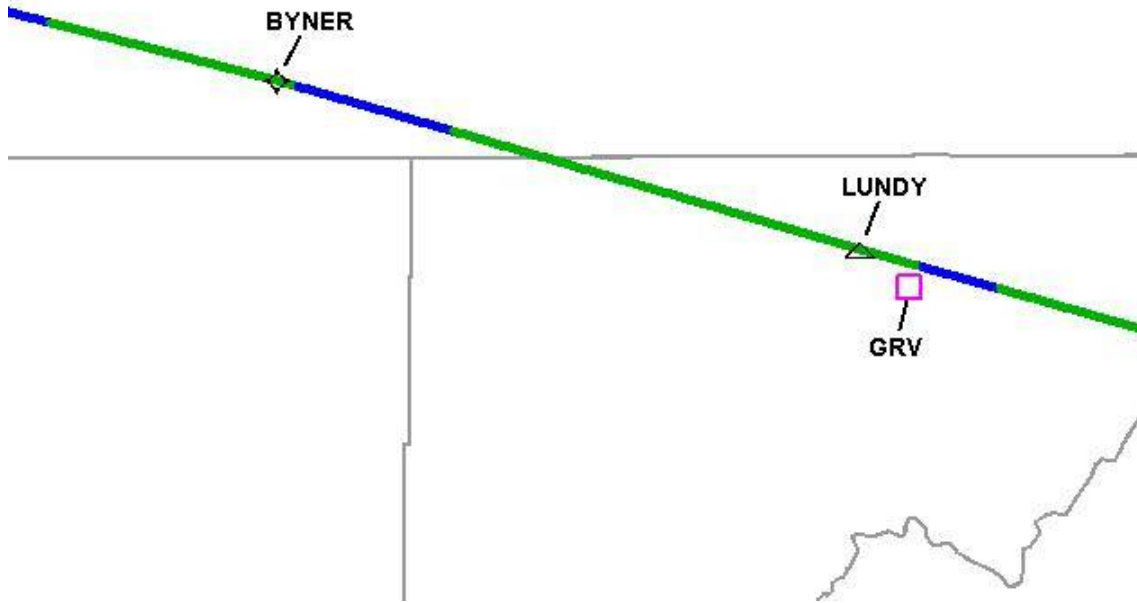
DME DME Assessment Results for ANTHM4 path NUSMM\_HOOOK

Graphic Depiction 5

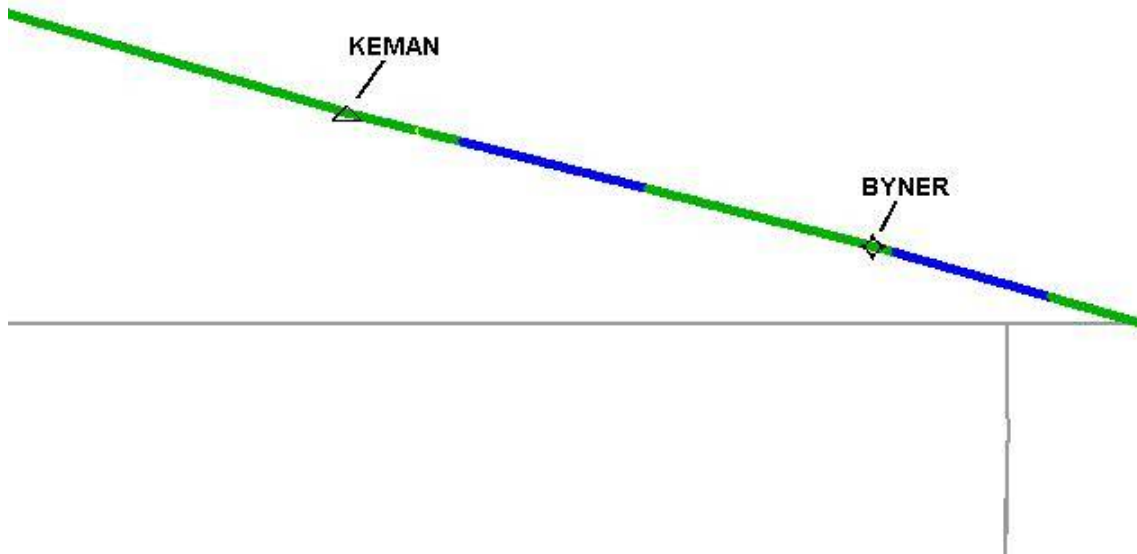


DME DME Assessment Results for ANTHM4 path NUSMM\_HOOOK

Graphic Depiction 6



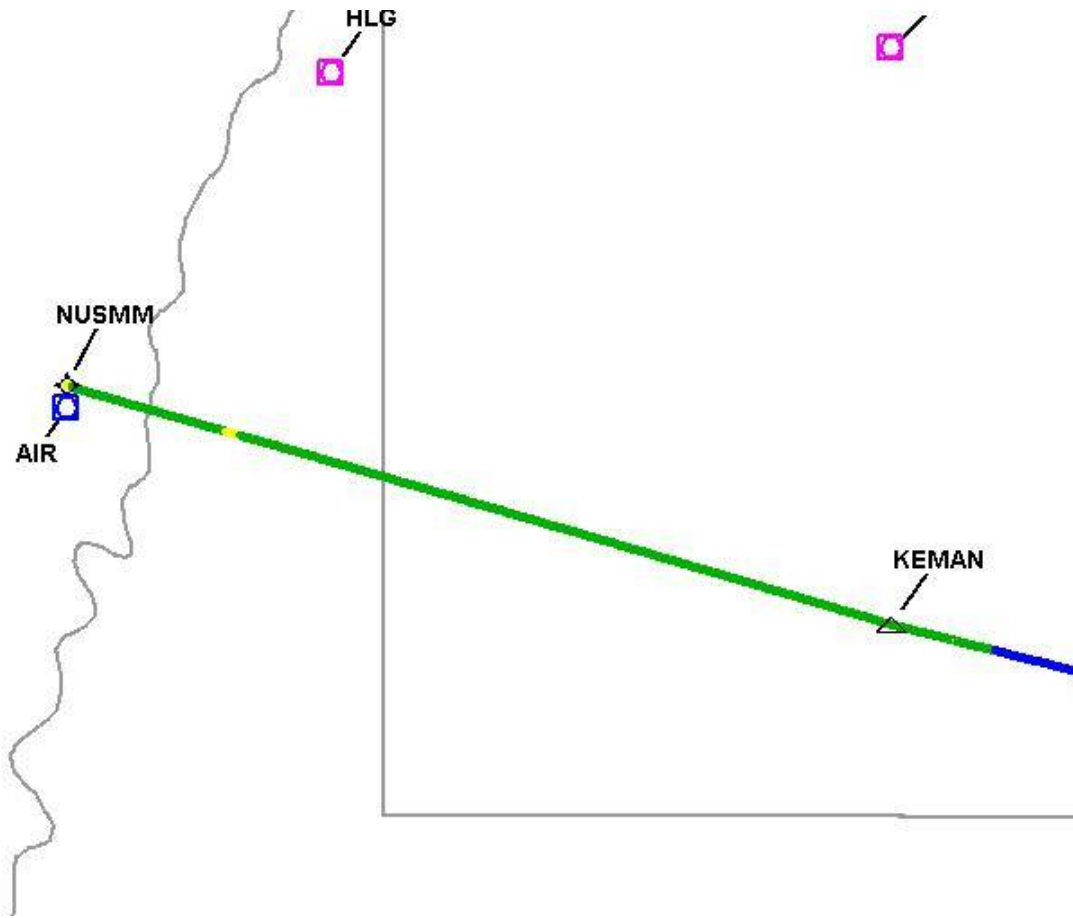
Graphic Depiction 7





DME DME Assessment Results for ANTHM4 path NUSMM\_HOOOK

Graphic Depiction 8



DME DME Assessment Results for ANTHM4 path NUSMM\_HOOOK

Graphic Depiction 9

