

DME DME Assessment Results for Q445 path KALDA_KYSKY

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\DME-DME WORK\6-12-2025 PUBLICATION\Q445 AMEND 20240515.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\6-12-2025 PUBLICATION\Q445\Q445 20250113_1628 EST\KALDA_KYSKY\Q445 RNAV ROUTE KALDA KYSKY 20250113_1628 EST.pdf
Procedure Name:	Q445
Software: DmeDmePlugin:	7.4.1
Date/Time:	01/13/2025 16:28 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
KALDA	WP	N37° 50' 31.0600", W075° 37' 35.3400"	18000	VNAV	240	FLY_BY	TF
ZJAAY	WP	N38° 03' 09.9500", W075° 26' 34.2700"	18000	VNAV	240	FLY_BY	TF
PAJET	WP	N38° 28' 04.1300", W075° 03' 00.5500"	18000	VNAV	240	FLY_BY	TF
CAANO	WP	N38° 31' 46.3700", W074° 58' 52.3200"	18000	VNAV	240	FLY_BY	TF
TBONN	WP	N38° 45' 02.8300", W074° 45' 03.7700"	18000	VNAV	240	FLY_BY	TF
ZIZZI	WP	N38° 56' 26.4600", W074° 31' 44.2800"	18000	VNAV	240	FLY_BY	TF
YAZUU	WP	N39° 24' 44.8200", W074° 01' 01.5500"	18000	VNAV	240	FLY_BY	TF
SHAUP	WP	N39° 44' 23.9100", W073° 34' 33.8400"	18000	VNAV	240	FLY_BY	TF
VALCO	WP	N40° 05' 29.8600", W073° 08' 22.9100"	18000	VNAV	240	FLY_BY	TF
KYSKY	WP	N40° 46' 52.7500", W072° 12' 21.4500"	18000	VNAV	240	FLY_BY	TF

Flyability	
Flight Type:	RNAV_ROUTE
Selected Airport:	
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 Q445 path KALDA_KYSKY

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:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Not included
Terminal DMEs:	Not 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	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H		NO	Enabled	16.2 %	16.2 %
2	CCC	N40° 55' 46.6278", W072° 47' 55.8897"	13.0 W	130	H		NO	Enabled	45.7 %	45.7 %
3	HTO	N40° 55' 08.3846", W072° 19' 00.1357"	13.0 W	130	H		NO	Enabled	40.7 %	40.7 %
4	RBV	N40° 12' 08.6475", W074° 29' 42.0940"	10.0 W	130	H		NO	Enabled	59.4 %	59.4 %
5	BOS	N42° 21' 26.8197", W070° 59' 22.3742"	16.0 W	130	DH		NO	Enabled	8.6 %	8.6 %
6	SAX	N41° 04' 03.1486", W074° 32' 17.9094"	11.0 W	130	H		NO	Enabled	35.2 %	35.2 %
7	RIC	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	H		NO	Enabled	33.7 %	33.7 %
8	SIE	N39° 05' 43.8324", W074° 48' 01.2382"	9.0 W	130	H		NO	Enabled	45 %	45 %
9	JFK	N40° 37' 58.3816", W073° 46' 17.0103"	12.0 W	130	H		NO	Enabled	54.5 %	54.4 %
10	PUT	N41° 57' 19.6572", W071° 50' 38.7414"	14.0 W	130	H		NO	Enabled	12.4 %	12.4 %
11	FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	H		NO	Enabled	24.3 %	24.3 %
12	CYN	N39° 49' 02.4165", W074° 25' 53.8526"	10.0 W	130	H		NO	Enabled	70 %	70 %
13	LFV	N42° 01' 01.8758", W070° 02' 14.0373"	16.0 W	130	DH		NO	Enabled	2.9 %	2.9 %
14	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H		NO	Enabled	35.3 %	35.3 %
15	PVD	N41° 43' 27.6334", W071° 25' 46.7078"	14.0 W	130	DH		NO	Enabled	26.9 %	26.9 %

DME DME Assessment Results for Q445 path KALDA_KYSKY

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CSN	SIE	RIC	FAK		
21.7	CSN	SIE	EMI	RIC	FAK	
57.9	EMI	CYN	SIE	RBV	CSN	RIC
60.4	CSN	SIE	CYN	RBV	RIC	
80.3	SIE	CYN	RBV	CSN		
84.0	SIE	CYN	RBV			
89.3						
108.3	JFK	CYN				
115.3	JFK	CYN	RBV			
129.2	JFK	CYN	CCC	RBV		
133.4	JFK	CYN	CCC	RBV	SAX	
217.2	HTO	JFK	PUT	CCC	CYN	RBV
218.7	HTO	JFK	PUT	CCC	RBV	PVD
224.2	HTO	JFK	CCC	PVD	PUT	BOS

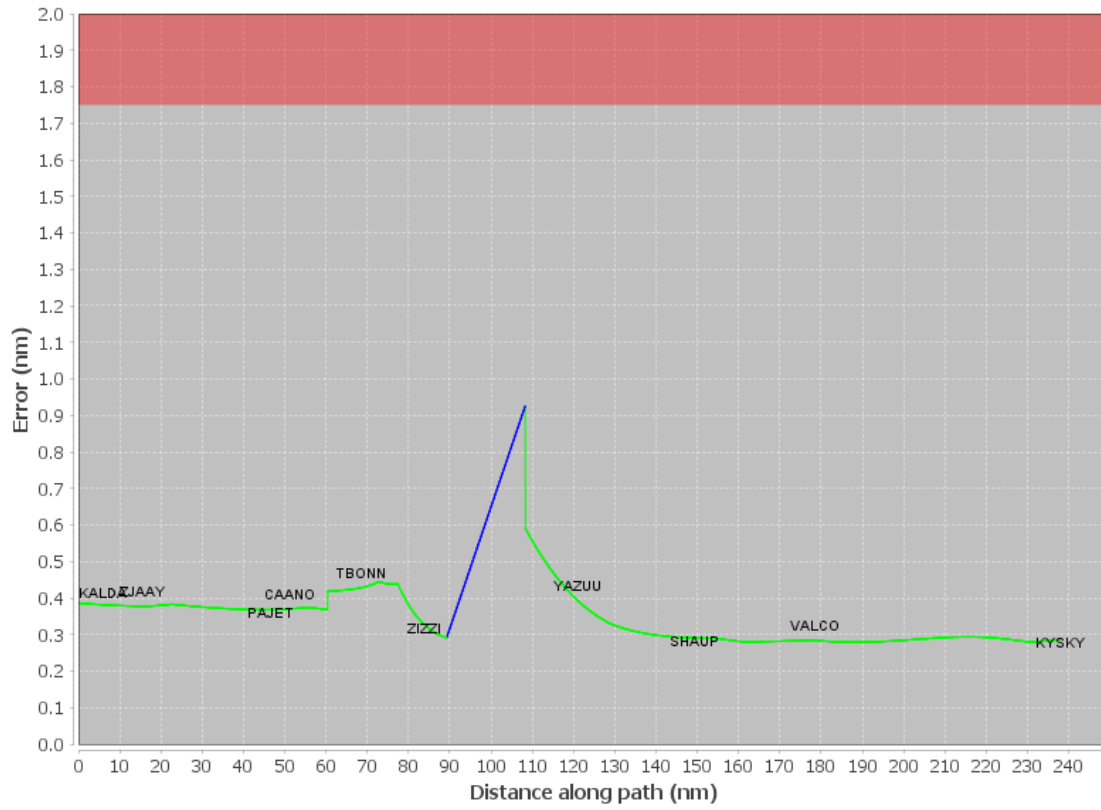
Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N39° 00' 37.4533", W074° 27' 14.0542"	N39° 15' 11.4770", W074° 11' 27.3911"	19.0404

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KALDA	ZJAAY	FAK, RIC, SIE, CSN	
ZJAAY	PAJET	EMI, FAK, CYN, RIC, SIE, CSN	
PAJET	CAANO	EMI, FAK, CYN, RIC, SIE, CSN	
CAANO	TBONN	EMI, FAK, RBV, CYN, RIC, SIE, CSN	
TBONN	ZIZZI	RBV, CYN, RIC, SIE, CSN	
ZIZZI	YAZUU	RBV, CYN, SIE, JFK, CSN	
YAZUU	SHAUP	CCC, HTO, RBV, CYN, SAX, JFK	
SHAUP	VALCO	CCC, HTO, RBV, CYN, SAX, JFK, SIE, PVD	
VALCO	KYSKY	CCC, HTO, RBV, BOS, CYN, SAX, Lfv, JFK, SIE, PUT, PVD	

User Data Files								
#	File Name							
1	UserDMEsQ445 RNAV ROUTE_20250113_1609 EST.udt							
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	ESV EMI [IFPA] EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	820	117.9	ESV EMI [IFPA]	
ESV:		Bearing [True]: 102.0° to 162.0° Bearing [Mag]: 110.0° to 170.0°			Arc Distance: Out to 115.0 NM Altitude: 9900.0 to 19000.0 ft			
2	UDT ESV CSN CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	UDT ESV CSN	
ESV:		Bearing [True]: 74.0° to 144.0° Bearing [Mag]: 80.0° to 150.0°			Arc Distance: Out to 160.0 NM Altitude: 18000.0 to 45000.0 ft			
3	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
ESV:		Bearing [True]: 14.0° to 194.0° Bearing [Mag]: 20.0° to 200.0°			Arc Distance: Out to 155.0 NM Altitude: 18000.0 to 45000.0 ft			
4	UDT ESV RIC RIC	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	UDT ESV RIC	
ESV:		Bearing [True]: 53.0° to 70.0° Bearing [Mag]: 62.0° to 79.0°			Arc Distance: Out to 155.0 NM Altitude: 18000.0 to 25000.0 ft			

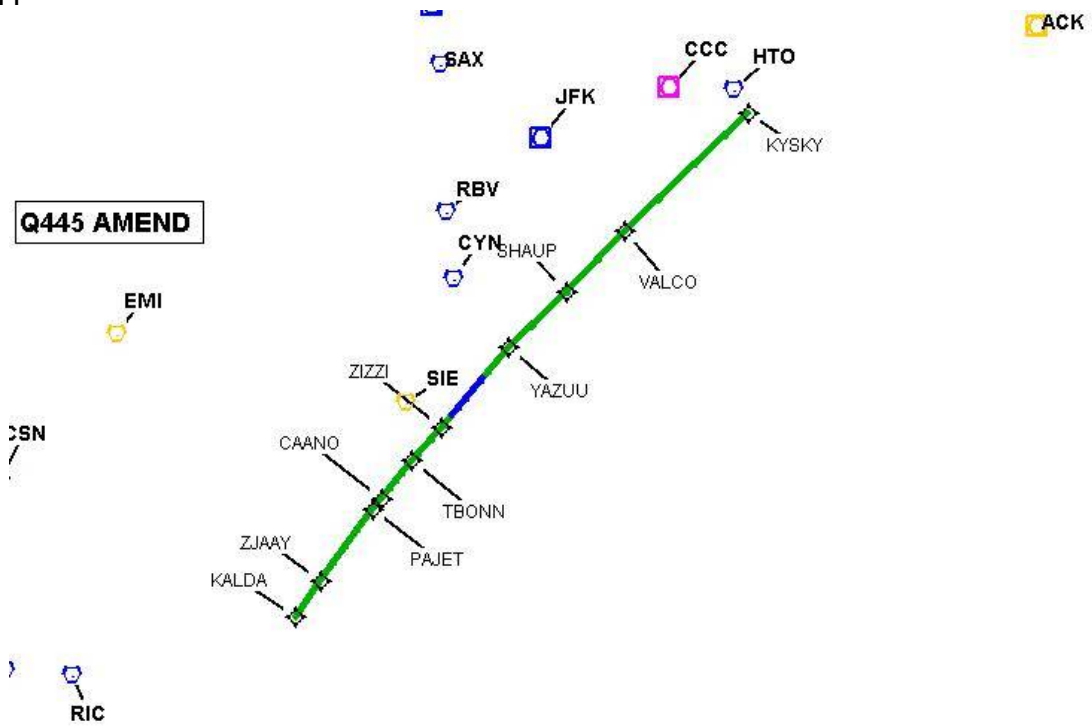
DME DME Assessment Results for Q445 path KALDA_KYSKY

DME Error



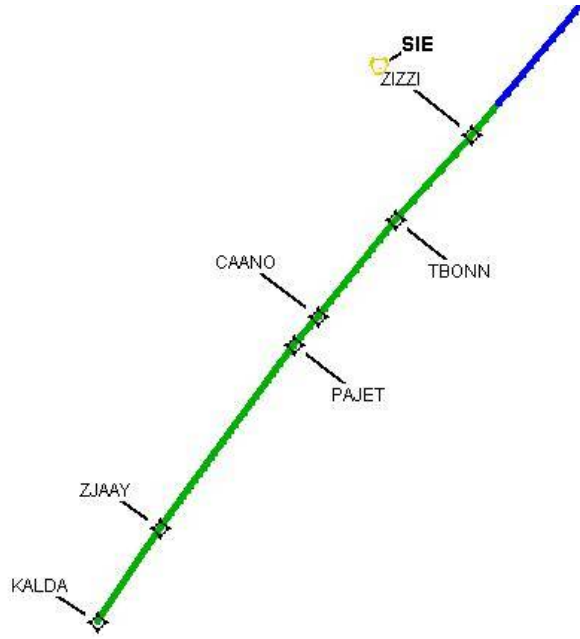
DME DME Assessment Results for Q445 path KALDA_KYSKY

Graphic Depiction 1



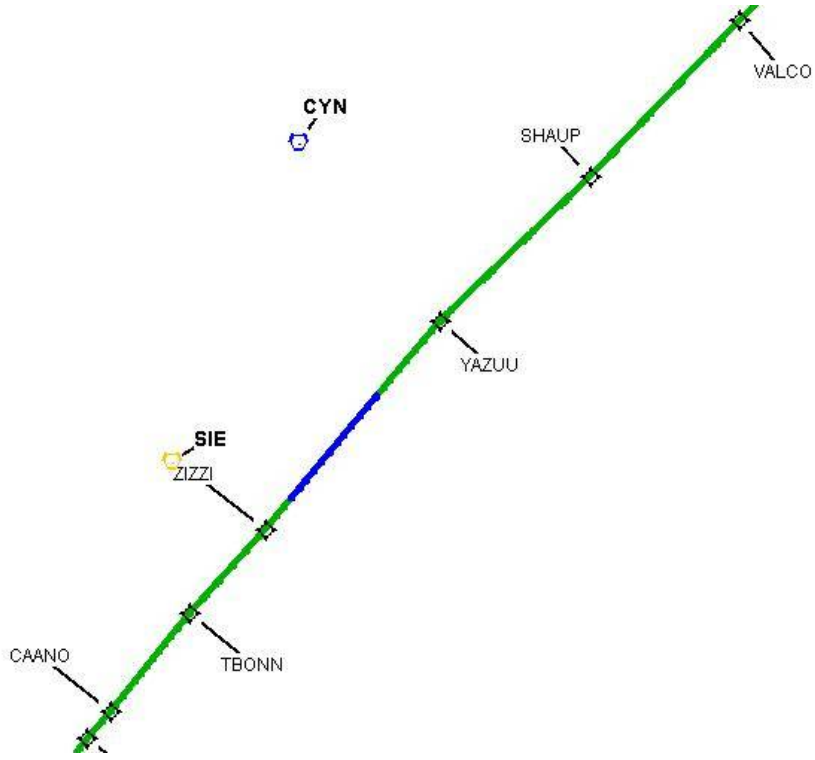
DME DME Assessment Results for Q445 path KALDA_KYSKY

Graphic Depiction 2



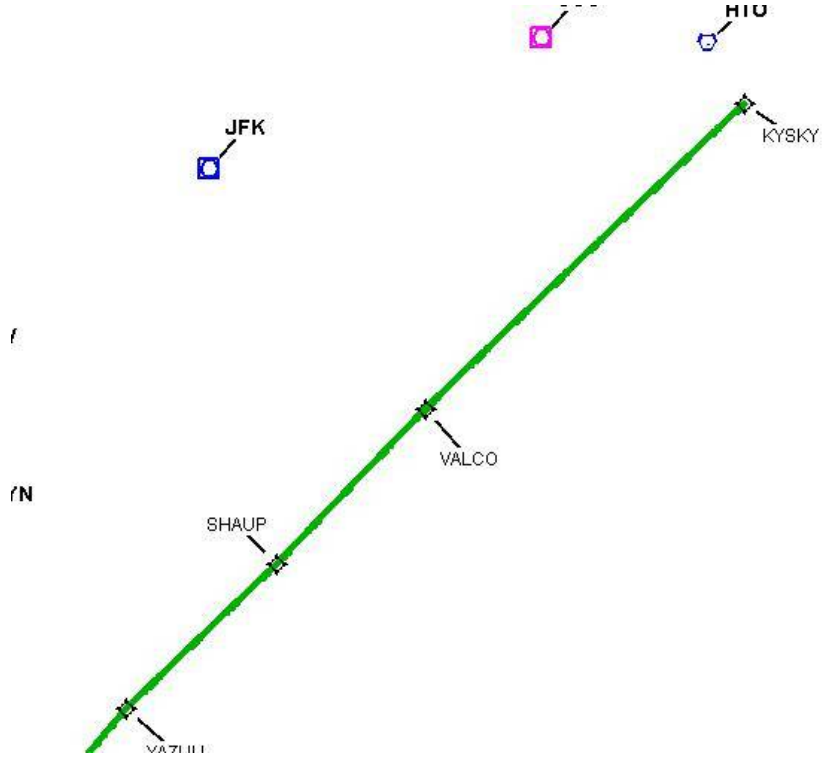
DME DME Assessment Results for Q445 path KALDA_KYSKY

Graphic Depiction 3



DME DME Assessment Results for Q445 path KALDA_KYSKY

Graphic Depiction 4



DME DME Assessment Results for Q445 path KYSKY_KALDA

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\DME-DME WORK\6-12-2025 PUBLICATION\Q445 AMEND 20240515.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\6-12-2025 PUBLICATION\Q445\Q445 20250113_1628 EST\KYSKY_KALDA\Q445 RNAV ROUTE KYSKY KALDA 20250113_1628 EST.pdf
Procedure Name:	Q445
Software: DmeDmePlugin:	7.4.1
Date/Time:	01/13/2025 16:28 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
KYSKY	WP	N40° 46' 52.7500", W072° 12' 21.4500"	18000	VNAV	240	FLY_BY	TF
VALCO	WP	N40° 05' 29.8600", W073° 08' 22.9100"	18000	VNAV	240	FLY_BY	TF
SHAUP	WP	N39° 44' 23.9100", W073° 34' 33.8400"	18000	VNAV	240	FLY_BY	TF
YAZUU	WP	N39° 24' 44.8200", W074° 01' 01.5500"	18000	VNAV	240	FLY_BY	TF
ZIZZI	WP	N38° 56' 26.4600", W074° 31' 44.2800"	18000	VNAV	240	FLY_BY	TF
TBONN	WP	N38° 45' 02.8300", W074° 45' 03.7700"	18000	VNAV	240	FLY_BY	TF
CAANO	WP	N38° 31' 46.3700", W074° 58' 52.3200"	18000	VNAV	240	FLY_BY	TF
PAJET	WP	N38° 28' 04.1300", W075° 03' 00.5500"	18000	VNAV	240	FLY_BY	TF
ZJAAY	WP	N38° 03' 09.9500", W075° 26' 34.2700"	18000	VNAV	240	FLY_BY	TF
KALDA	WP	N37° 50' 31.0600", W075° 37' 35.3400"	18000	VNAV	240	FLY_BY	TF

Flyability

Flight Type:	RNAV_ROUTE
Selected Airport:	
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 Q445 path KYSKY_KALDA

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:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Not included
Terminal DMEs:	Not 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	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H		NO	Enabled	16.2 %	16.2 %
2	CCC	N40° 55' 46.6278", W072° 47' 55.8897"	13.0 W	130	H		NO	Enabled	45.7 %	45.7 %
3	HTO	N40° 55' 08.3846", W072° 19' 00.1357"	13.0 W	130	H		NO	Enabled	40.7 %	40.7 %
4	BOS	N42° 21' 26.8197", W070° 59' 22.3742"	16.0 W	130	DH		NO	Enabled	8.6 %	8.6 %
5	RBV	N40° 12' 08.6475", W074° 29' 42.0940"	10.0 W	130	H		NO	Enabled	59.4 %	59.4 %
6	SAX	N41° 04' 03.1486", W074° 32' 17.9094"	11.0 W	130	H		NO	Enabled	35.2 %	35.2 %
7	RIC	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	H		NO	Enabled	33.7 %	33.7 %
8	PUT	N41° 57' 19.6572", W071° 50' 38.7414"	14.0 W	130	H		NO	Enabled	12.4 %	12.4 %
9	JFK	N40° 37' 58.3816", W073° 46' 17.0103"	12.0 W	130	H		NO	Enabled	54.5 %	54.4 %
10	SIE	N39° 05' 43.8324", W074° 48' 01.2382"	9.0 W	130	H		NO	Enabled	45 %	45 %
11	FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	H		NO	Enabled	24.3 %	24.3 %
12	CYN	N39° 49' 02.4165", W074° 25' 53.8526"	10.0 W	130	H		NO	Enabled	70 %	70 %
13	LFV	N42° 01' 01.8758", W070° 02' 14.0373"	16.0 W	130	DH		NO	Enabled	2.9 %	2.9 %
14	PVD	N41° 43' 27.6334", W071° 25' 46.7078"	14.0 W	130	DH		NO	Enabled	26.9 %	26.9 %
15	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H		NO	Enabled	35.3 %	35.3 %

DME DME Assessment Results for Q445 path KYSKY_KALDA

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CCC	PVD	PUT	JFK	HTO	BOS
20.5	HTO	JFK	PUT	CCC	CYN	RBV
29.6	HTO	JFK	CCC	RBV	SAX	CYN
97.0	JFK	CYN	CCC	RBV	SAX	
104.5	JFK	CYN	CCC	RBV		
108.8	JFK	CYN	RBV			
122.7	JFK	CYN				
129.6						
148.6	SIE	CYN	RBV			
153.9	SIE	CYN	RBV	CSN		
157.7	SIE	CYN	RBV	RIC	CSN	
181.2	EMI	CYN	SIE	CSN	RIC	FAK
205.0	EMI	SIE	CSN	RIC	FAK	
216.2	CSN	SIE	RIC	FAK		

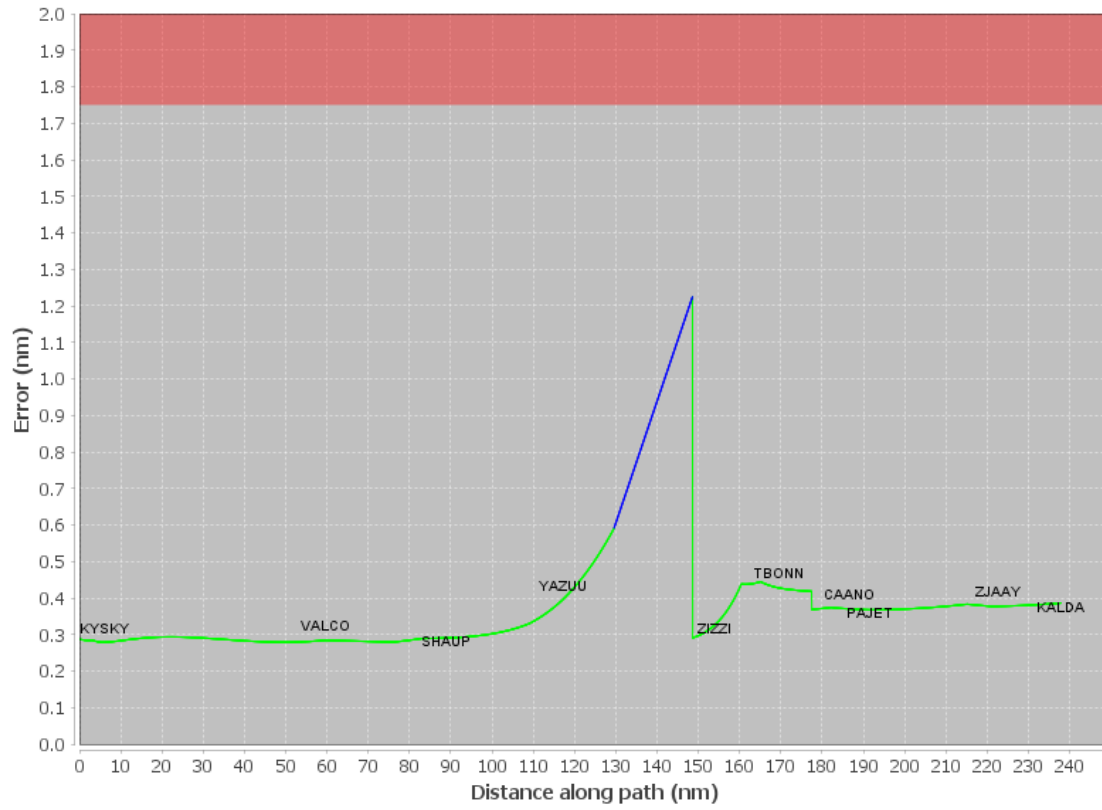
Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N39° 15' 08.4248", W074° 11' 30.7125"	N39° 00' 34.3935", W074° 27' 17.3528"	19.0404

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KYSKY	VALCO	CCC, HTO, BOS, RBV, CYN, SAX, Lfv, PUT, JFK, SIE, PVD	
VALCO	SHAUP	CCC, HTO, RBV, CYN, SAX, JFK, SIE, PVD	
SHAUP	YAZUU	CCC, HTO, RBV, CYN, SAX, JFK	
YAZUU	ZIZZI	RBV, CYN, JFK, SIE, CSN	
ZIZZI	TBONN	RBV, CYN, RIC, SIE, CSN	
TBONN	CAANO	EMI, FAK, RBV, CYN, RIC, SIE, CSN	
CAANO	PAJET	EMI, FAK, CYN, RIC, SIE, CSN	
PAJET	ZJAAY	EMI, FAK, CYN, RIC, SIE, CSN	
ZJAAY	KALDA	FAK, RIC, SIE, CSN	

User Data Files								
#	File Name							
1	UserDMEsQ445 RNAV ROUTE_20250113_1609 EST.udt							
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	ESV EMI [IFPA] EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	820	117.9	ESV EMI [IFPA]	
	ESV:	Bearing [True]: 102.0° to 162.0° Bearing [Mag]: 110.0° to 170.0°			Arc Distance: Out to 115.0 NM Altitude: 9900.0 to 19000.0 ft			
2	UDT ESV CSN CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	UDT ESV CSN	
	ESV:	Bearing [True]: 74.0° to 144.0° Bearing [Mag]: 80.0° to 150.0°			Arc Distance: Out to 160.0 NM Altitude: 18000.0 to 45000.0 ft			
3	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 14.0° to 194.0° Bearing [Mag]: 20.0° to 200.0°			Arc Distance: Out to 155.0 NM Altitude: 18000.0 to 45000.0 ft			
4	UDT ESV RIC RIC	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	158.3	114.1	UDT ESV RIC	
	ESV:	Bearing [True]: 53.0° to 70.0° Bearing [Mag]: 62.0° to 79.0°			Arc Distance: Out to 155.0 NM Altitude: 18000.0 to 25000.0 ft			

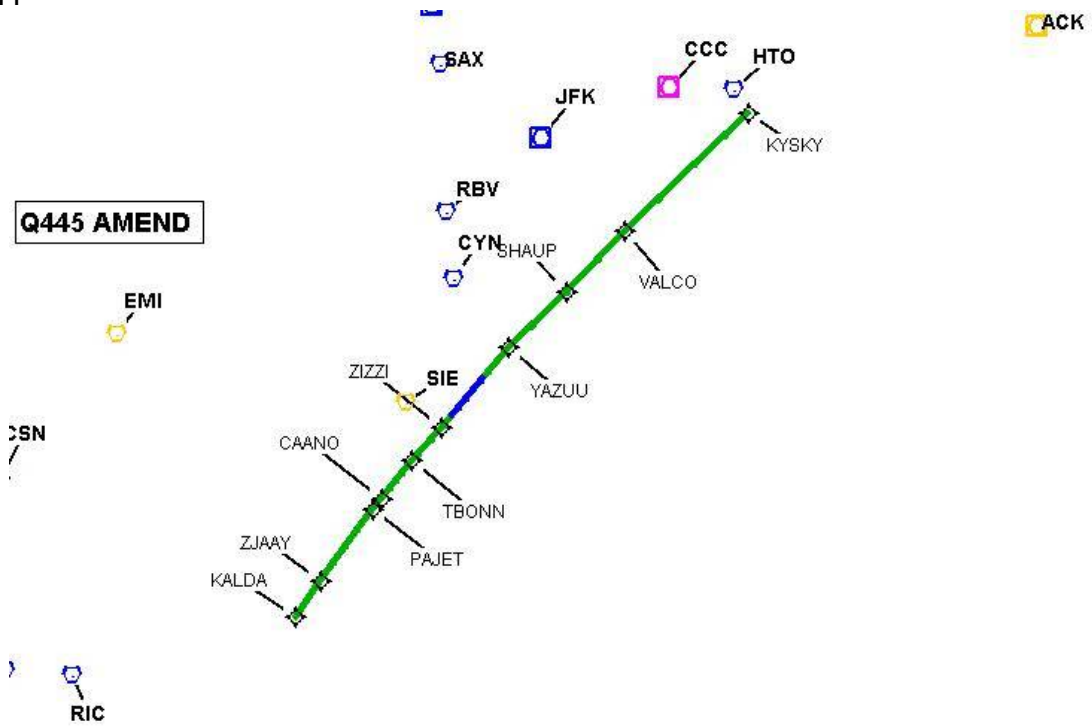
DME DME Assessment Results for Q445 path KYSKY_KALDA

DME Error



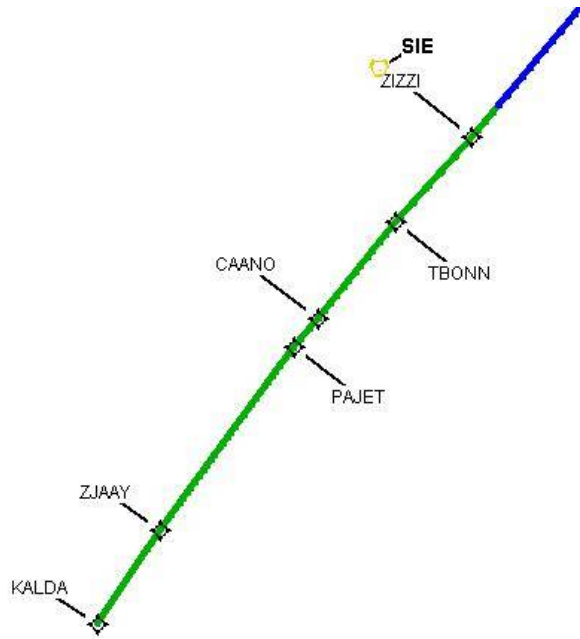
DME DME Assessment Results for Q445 path KYSKY_KALDA

Graphic Depiction 1



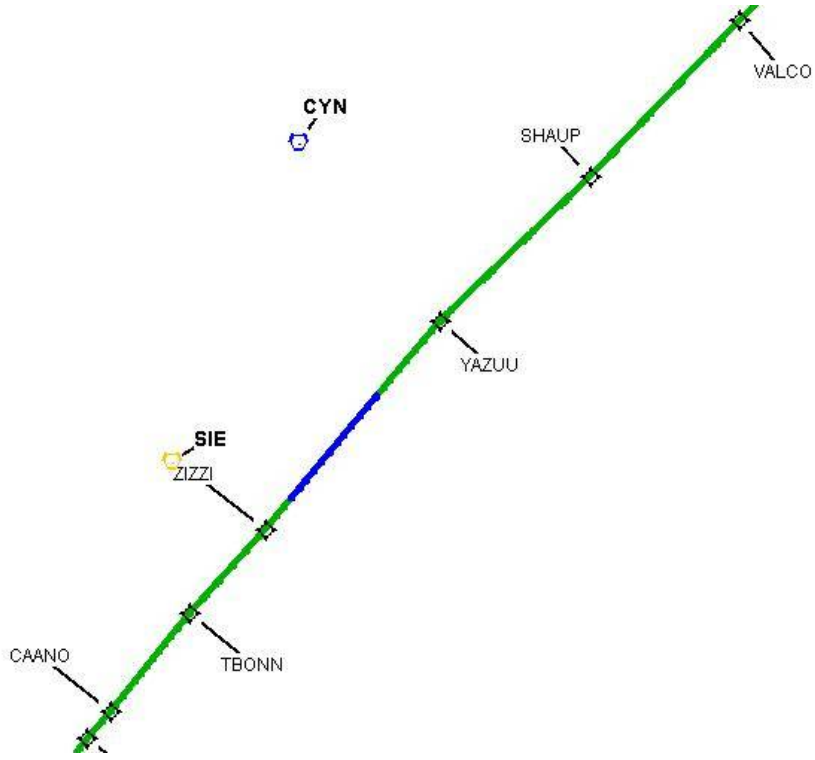
DME DME Assessment Results for Q445 path KYSKY_KALDA

Graphic Depiction 2



DME DME Assessment Results for Q445 path KYSKY_KALDA

Graphic Depiction 3



DME DME Assessment Results for Q445 path KYSKY_KALDA

Graphic Depiction 4

