

DME DME Assessment Results for Q439 path KALDA_FRIAR

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\Q439\1-21-2025 FIXES REMOVED\Q439 AMEND 20250121_DME-DME_FIXES REMOVED.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\6-12-2025 PUBLICATION\Q439\1-21-2025 FIXES REMOVED\Q439 20250121_1127 EST\KALDA_FRIAR\Q439 RNAV ROUTE KALDA FRIAR 20250121_1127 EST.pdf
Procedure Name:	Q439
Software: DmeDmePlugin:	7.4.1
Date/Time:	01/21/2025 11:27 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
BYSEL	WP	N38° 15' 02.7000", W075° 16' 52.8700"	18000	VNAV	240	FLY_BY	TF
RADDS	WP	N38° 38' 54.8000", W075° 05' 18.4800"	18000	VNAV	240	FLY_BY	TF
SHHAY	WP	N38° 47' 04.0800", W074° 55' 55.4200"	18000	VNAV	240	FLY_BY	TF
BRIGS	WP	N39° 31' 24.7200", W074° 08' 19.6700"	18000	VNAV	240	FLY_BY	TF
MANTA	WP	N39° 54' 07.0100", W073° 32' 31.6300"	18000	VNAV	240	FLY_BY	TF
SARDI	WP	N40° 31' 26.6100", W072° 47' 55.8700"	18000	VNAV	240	FLY_BY	TF
RIFLE	WP	N40° 41' 24.1800", W072° 34' 54.8900"	18000	VNAV	240	FLY_BY	TF
FOXWD	WP	N41° 48' 21.6600", W071° 48' 07.0300"	18000	VNAV	240	FLY_BY	TF
BOGRT	WP	N42° 13' 56.0800", W071° 31' 07.3700"	18000	VNAV	240	FLY_BY	TF
BLENO	WP	N42° 54' 55.0000", W071° 04' 43.3700"	18000	VNAV	240	FLY_BY	TF
FRIAR	WP	N44° 26' 28.9300", W069° 53' 04.3800"	18000	VNAV	240	FLY_BY	TF

DME DME Assessment Results for Q439 path KALDA_FRIAR

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	
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:	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 Assessment Results for Q439 path KALDA_FRIAR

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	ORF	N36° 53' 30.8569", W076° 12' 01.1774"	7.0 W	130	H		NO	Enabled	7.6 %	7.6 %
2	HTO	N40° 55' 08.3846", W072° 19' 00.1357"	13.0 W	130	H		NO	Enabled	39.4 %	39.3 %
3	SAX	N41° 04' 03.1486", W074° 32' 17.9094"	11.0 W	130	H		NO	Enabled	25.1 %	25.1 %
4	HPW	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	130	H		NO	Enabled	5 %	5 %
5	JFK	N40° 37' 58.3816", W073° 46' 17.0103"	12.0 W	130	H		NO	Enabled	39.9 %	39.9 %
6	MPV	N44° 05' 07.7171", W072° 26' 57.7073"	16.0 W	130	DH		NO	Enabled	34 %	34 %
7	AUG	N44° 19' 12.0733", W069° 47' 47.6315"	18.0 W	130	DH		NO	Enabled	27.5 %	27.5 %
8	MLT	N45° 35' 12.1531", W068° 30' 55.6668"	20.0 W	130	DH		NO	Enabled	8.3 %	8.3 %
9	CYN	N39° 49' 02.4165", W074° 25' 53.8526"	10.0 W	130	H		NO	Enabled	40 %	40 %
10	LFV	N42° 01' 01.8758", W070° 02' 14.0373"	16.0 W	130	DH		NO	Enabled	46.2 %	46.2 %
11	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H		NO	Enabled	15.6 %	15.6 %
12	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H		NO	Enabled	21.2 %	21.2 %
13	BML	N44° 38' 00.7200", W071° 11' 10.2900"	0.0 E	130	H		NO	Enabled	20.6 %	20.6 %
14	CCC	N40° 55' 46.6278", W072° 47' 55.8897"	13.0 W	130	H		NO	Enabled	35.1 %	35.1 %
15	HUO	N41° 24' 34.8718", W074° 35' 29.7393"	11.0 W	130	H		NO	Enabled	1.7 %	1.7 %
16	RBV	N40° 12' 08.6475", W074° 29' 42.0940"	10.0 W	130	H		NO	Enabled	37.3 %	37.3 %
17	BOS	N42° 21' 26.8197", W070° 59' 22.3742"	16.0 W	130	DH		NO	Enabled	51.2 %	51.2 %
18	ACK	N41° 16' 54.7942", W070° 01' 36.1570"	15.0 W	130	H		NO	Enabled	18.1 %	18.1 %
19	BGR	N44° 50' 30.4619", W068° 52' 26.2752"	19.0 W	130	H		NO	Enabled	11.1 %	11.1 %
20	RIC	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	H		NO	Enabled	3.9 %	3.9 %
21	SIE	N39° 05' 43.8324", W074° 48' 01.2382"	9.0 W	130	H		NO	Enabled	31.4 %	31.4 %
22	PUT	N41° 57' 19.6572", W071° 50' 38.7414"	14.0 W	130	H		NO	Enabled	40.6 %	40.6 %
23	EEN	N42° 47' 39.4000", W072° 17' 30.4000"	0.0 E	130	H		NO	Enabled	36.3 %	36.3 %
24	ENE	N43° 25' 32.4197", W070° 36' 48.6917"	17.0 W	130	DH		NO	Enabled	40.1 %	40.1 %
25	PVD	N41° 43' 27.6334", W071° 25' 46.7078"	14.0 W	130	DH		NO	Enabled	50.5 %	50.5 %

DME DME Assessment Results for Q439 path KALDA_FRIAR

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	ORF	RIC	SIE	HPW		
18.7	CSN	SIE	EMI	HPW	ORF	
24.0	EMI	SIE	CSN	ORF		
31.7	EMI	SIE	CSN	ORF	CYN	
36.5	EMI	SIE	CSN	CYN		
52.6	EMI	SIE	CYN	RBV	CSN	
86.0	EMI	CYN	RBV	CSN		
91.5	EMI	CYN	RBV	JFK	CSN	
93.5	EMI	CYN	RBV	JFK		
109.9	CYN	SIE	RBV	EMI	JFK	
111.6	CYN	SIE	RBV	JFK		
113.5	EMI	RBV	CYN	JFK		
119.8	EMI	JFK	RBV	CYN	SAX	
122.2	CYN	SIE	RBV	SAX	JFK	
183.4	HTO	JFK	SAX	CCC	RBV	CYN
223.5	HTO	CCC	PVD	JFK	RBV	PUT
231.2	CCC	PVD	HTO	PUT	SAX	JFK
234.5	CCC	PUT	PVD	SAX	JFK	BOS
239.9	CCC	PUT	JFK	PVD	BOS	LFV
242.1	CCC	PUT	JFK	BOS	LFV	
245.0	HTO	JFK	CCC	PUT	LFV	
268.2	HTO	ACK	PUT	EEN	PVD	JFK
282.7	EEN	PVD	ACK	PUT	HTO	LFV
304.5	HTO	PVD	CCC	BOS	EEN	LFV
330.5	PUT	EEN	BOS	PVD	LFV	ENE
406.5	MPV	AUG	BML	EEN	BOS	LFV
429.8	AUG	BML	MPV	ENE	BGR	BOS
466.5	BML	ENE	BGR	MLT	BOS	MPV
474.2	BML	ENE	MLT	BGR	MPV	

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KALDA	ZJAAY	ORF, RIC, HPW, SIE	
ZJAAY	BYSEL	EMI, ORF, RIC, HPW, SIE, CSN	
BYSEL	RADDS	EMI, ORF, RBV, CYN, SIE, CSN	
RADDS	SHHAY	EMI, RBV, CYN, SIE, CSN	
SHHAY	BRIGS	EMI, RBV, CYN, SAX, SIE, JFK, CSN	
BRIGS	MANTA	CCC, HTO, RBV, CYN, SAX, SIE, JFK	
MANTA	SARDI	HTO, CCC, HUO, RBV, CYN, SAX, JFK, SIE, PUT, PVD	
SARDI	RIFLE	HTO, CCC, RBV, BOS, CYN, SAX, JFK, PUT, PVD	
RIFLE	FOXWD	HTO, CCC, BOS, RBV, ACK, SAX, LFV, ENE, JFK, PUT, PVD, EEN	
FOXWD	BOGRT	HTO, CCC, MPV, BOS, ACK, LFV, ENE, PUT, EEN, PVD	
BOGRT	BLENO	HTO, MPV, CCC, AUG, BOS, ACK, LFV, ENE, PUT, EEN, PVD	
BLENO	FRIAR	BML, MPV, AUG, MLT, BOS, BGR, ENE, LFV, PUT, EEN, PVD	

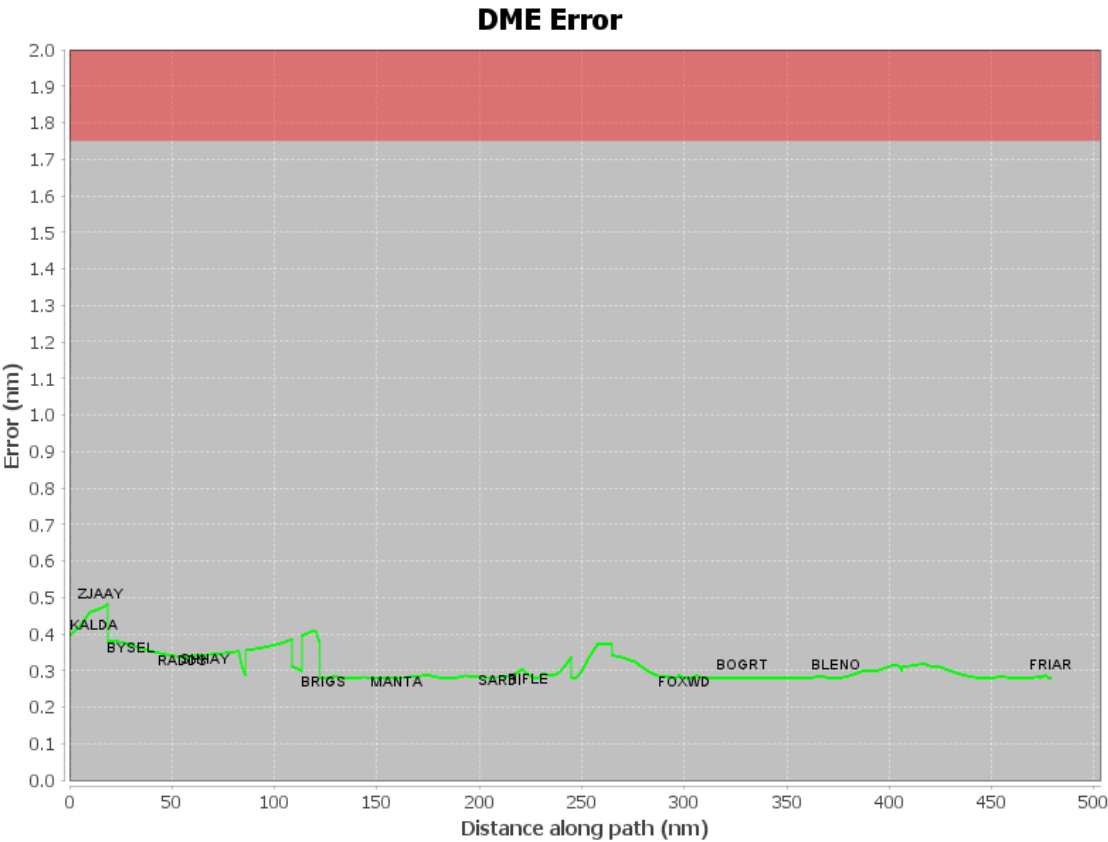
DME DME Assessment Results for Q439 path KALDA_FRIAR

User Data Files

#	File Name
1	UserDMEsQ439 RNAV ROUTE_20250115_1130 EST.udt

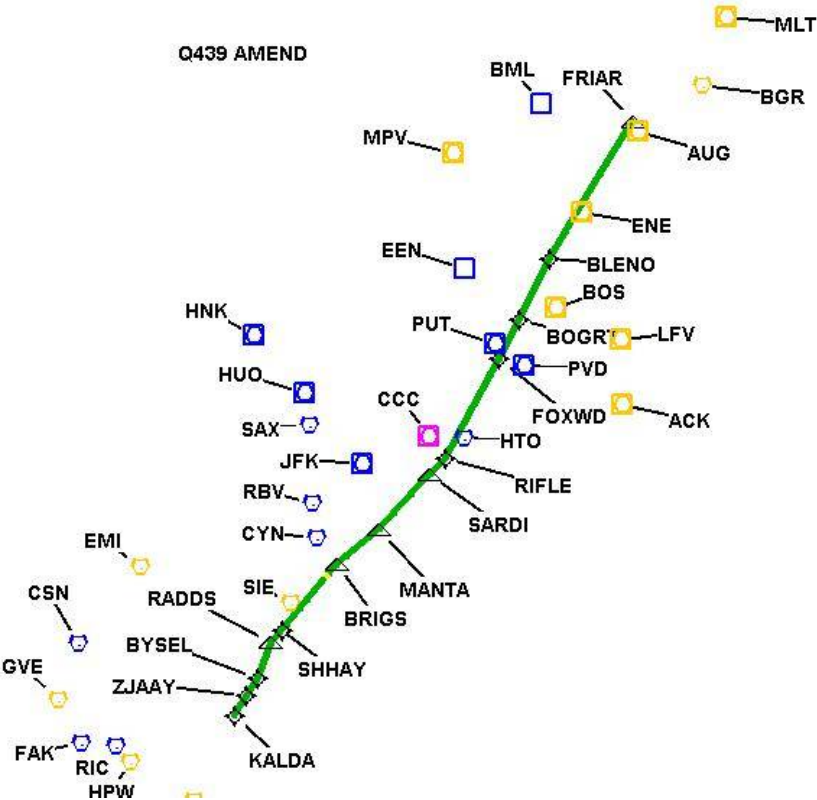
User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	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		
2	UDT ESV EMI EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	820	117.9	UDT ESV EMI	
ESV:		Bearing [True]: 77.0° to 142.0° Bearing [Mag]: 85.0° to 150.0°				Arc Distance: Out to 150.0 NM Altitude: 18000.0 to 33000.0 ft		



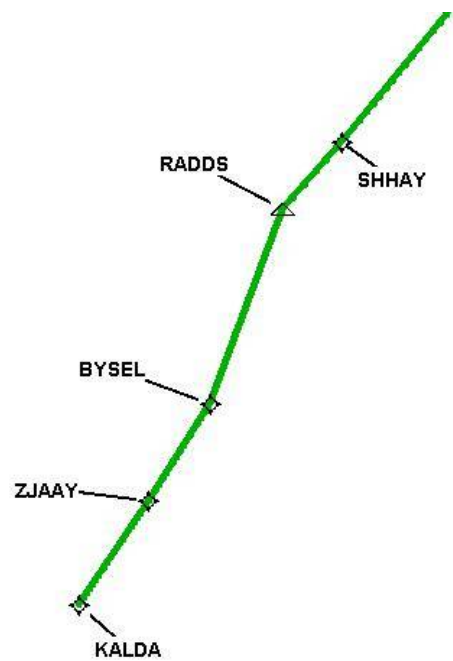
DME DME Assessment Results for Q439 path KALDA_FRIAR

Graphic Depiction 1



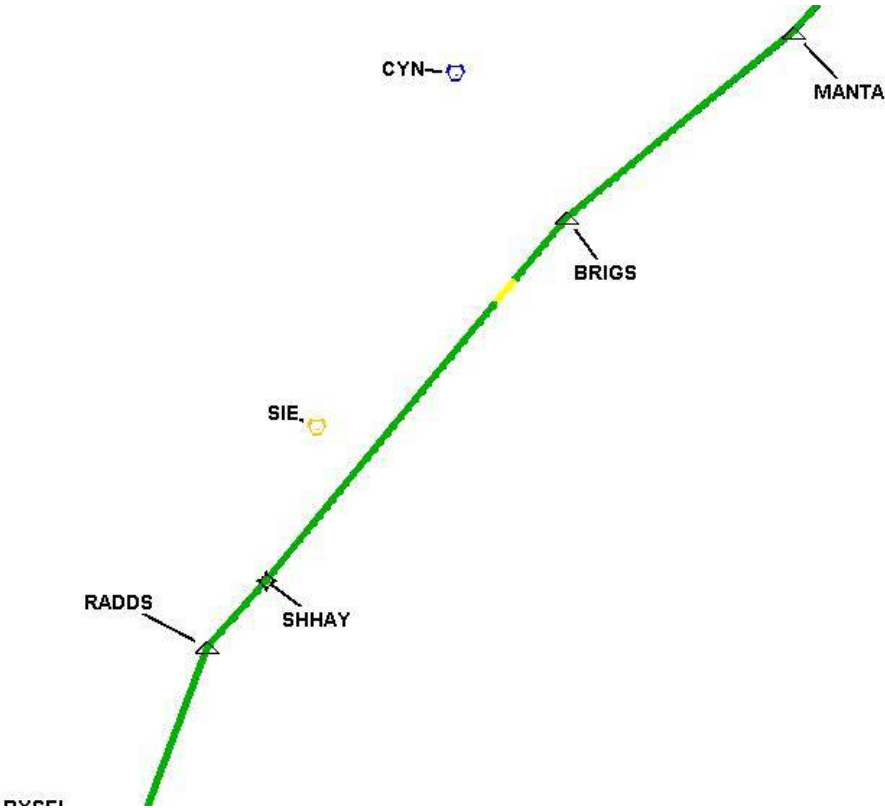
DME DME Assessment Results for Q439 path KALDA_FRIAR

Graphic Depiction 2



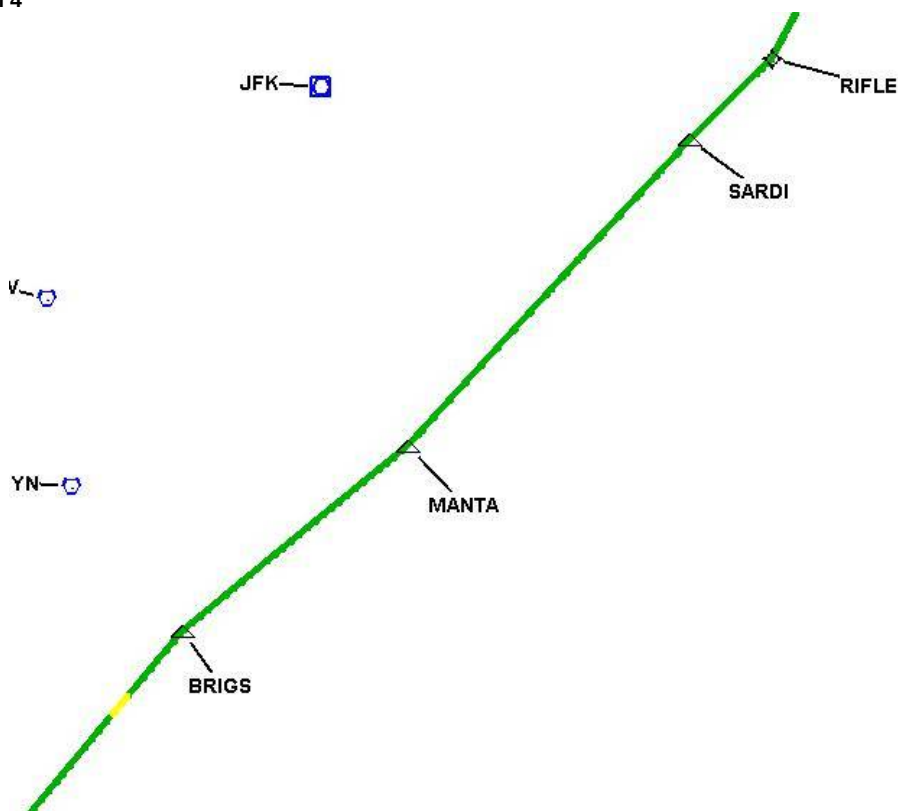
DME DME Assessment Results for Q439 path KALDA_FRIAR

Graphic Depiction 3



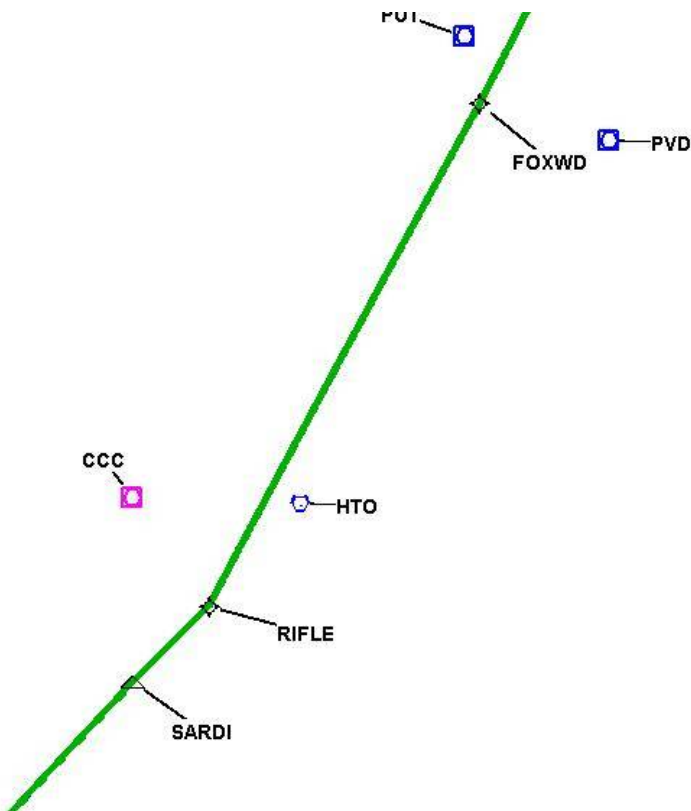
DME DME Assessment Results for Q439 path KALDA_FRIAR

Graphic Depiction 4



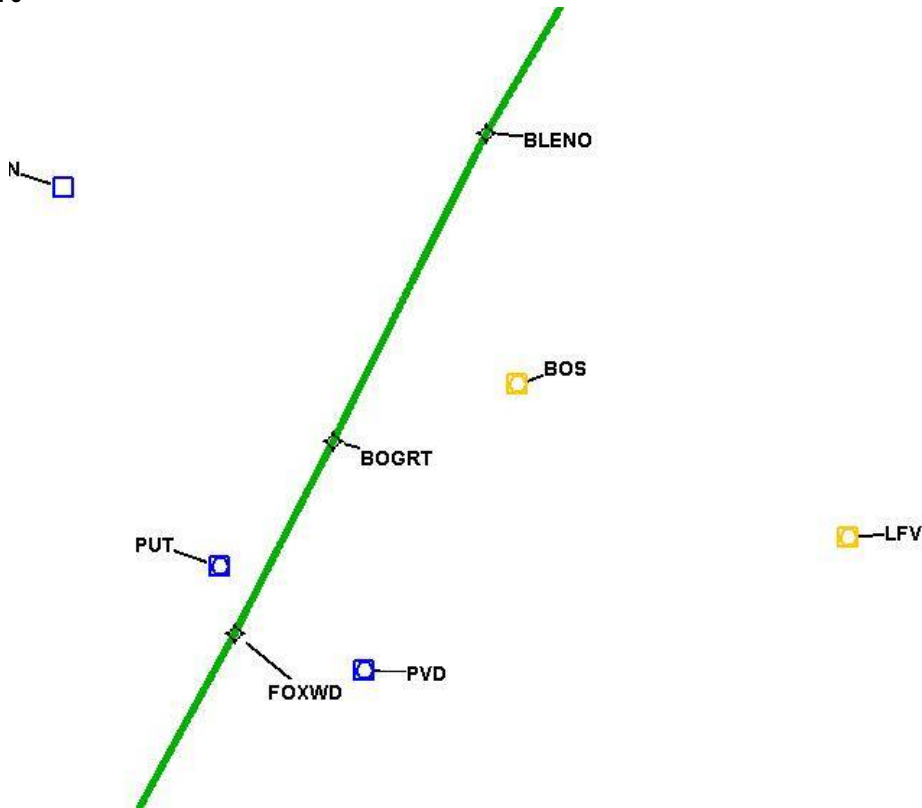
DME DME Assessment Results for Q439 path KALDA_FRIAR

Graphic Depiction 5

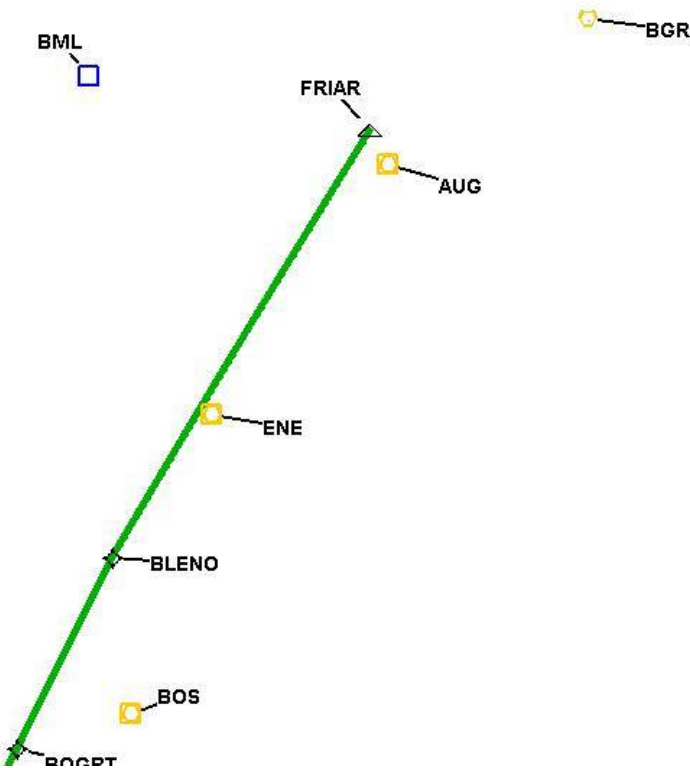


DME DME Assessment Results for Q439 path KALDA_FRIAR

Graphic Depiction 6



Graphic Depiction 7



DME DME Assessment Results for Q439 path FRIAR_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\Q439\1-21-2025 FIXES REMOVED\Q439 AMEND 20250121_DME-DME_FIXES REMOVED.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\6-12-2025 PUBLICATION\Q439\1-21-2025 FIXES REMOVED\Q439 20250121_1127 EST\FRIAR_KALDA\Q439 RNAV ROUTE FRIAR KALDA 20250121_1127 EST.pdf
Procedure Name:	Q439
Software: DmeDmePlugin:	7.4.1
Date/Time:	01/21/2025 11:27 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
FRIAR	WP	N44° 26' 28.9300", W069° 53' 04.3800"	18000	VNAV	240	FLY_BY	TF
BLENO	WP	N42° 54' 55.0000", W071° 04' 43.3700"	18000	VNAV	240	FLY_BY	TF
BOGRT	WP	N42° 13' 56.0800", W071° 31' 07.3700"	18000	VNAV	240	FLY_BY	TF
FOXWD	WP	N41° 48' 21.6600", W071° 48' 07.0300"	18000	VNAV	240	FLY_BY	TF
RIFLE	WP	N40° 41' 24.1800", W072° 34' 54.8900"	18000	VNAV	240	FLY_BY	TF
SARDI	WP	N40° 31' 26.6100", W072° 47' 55.8700"	18000	VNAV	240	FLY_BY	TF
MANTA	WP	N39° 54' 07.0100", W073° 32' 31.6300"	18000	VNAV	240	FLY_BY	TF
BRIGS	WP	N39° 31' 24.7200", W074° 08' 19.6700"	18000	VNAV	240	FLY_BY	TF
SHHAY	WP	N38° 47' 04.0800", W074° 55' 55.4200"	18000	VNAV	240	FLY_BY	TF
RADDS	WP	N38° 38' 54.8000", W075° 05' 18.4800"	18000	VNAV	240	FLY_BY	TF
BYSEL	WP	N38° 15' 02.7000", W075° 16' 52.8700"	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

DME DME Assessment Results for Q439 path FRIAR_KALDA

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	
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:	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 Assessment Results for Q439 path FRIAR_KALDA

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	HTO	N40° 55' 08.3846", W072° 19' 00.1357"	13.0 W	130	H		NO	Enabled	39.4 %	39.3 %
2	ORF	N36° 53' 30.8569", W076° 12' 01.1774"	7.0 W	130	H		NO	Enabled	7.6 %	7.6 %
3	SAX	N41° 04' 03.1486", W074° 32' 17.9094"	11.0 W	130	H		NO	Enabled	25.1 %	25.1 %
4	JFK	N40° 37' 58.3816", W073° 46' 17.0103"	12.0 W	130	H		NO	Enabled	39.9 %	39.9 %
5	HPW	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	130	H		NO	Enabled	5 %	5 %
6	MPV	N44° 05' 07.7171", W072° 26' 57.7073"	16.0 W	130	DH		NO	Enabled	34 %	34 %
7	AUG	N44° 19' 12.0733", W069° 47' 47.6315"	18.0 W	130	DH		NO	Enabled	27.5 %	27.5 %
8	MLT	N45° 35' 12.1531", W068° 30' 55.6668"	20.0 W	130	DH		NO	Enabled	8.3 %	8.3 %
9	CYN	N39° 49' 02.4165", W074° 25' 53.8526"	10.0 W	130	H		NO	Enabled	40 %	40 %
10	LFV	N42° 01' 01.8758", W070° 02' 14.0373"	16.0 W	130	DH		NO	Enabled	46.2 %	46.2 %
11	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H		NO	Enabled	15.6 %	15.6 %
12	BML	N44° 38' 00.7200", W071° 11' 10.2900"	0.0 E	130	H		NO	Enabled	20.6 %	20.6 %
13	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H		NO	Enabled	21.2 %	21.2 %
14	CCC	N40° 55' 46.6278", W072° 47' 55.8897"	13.0 W	130	H		NO	Enabled	35.1 %	35.1 %
15	HUO	N41° 24' 34.8718", W074° 35' 29.7393"	11.0 W	130	H		NO	Enabled	1.7 %	1.7 %
16	BOS	N42° 21' 26.8197", W070° 59' 22.3742"	16.0 W	130	DH		NO	Enabled	51.2 %	51.2 %
17	RBV	N40° 12' 08.6475", W074° 29' 42.0940"	10.0 W	130	H		NO	Enabled	37.3 %	37.3 %
18	ACK	N41° 16' 54.7942", W070° 01' 36.1570"	15.0 W	130	H		NO	Enabled	18.1 %	18.1 %
19	BGR	N44° 50' 30.4619", W068° 52' 26.2752"	19.0 W	130	H		NO	Enabled	11.1 %	11.1 %
20	RIC	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	H		NO	Enabled	3.9 %	3.9 %
21	PUT	N41° 57' 19.6572", W071° 50' 38.7414"	14.0 W	130	H		NO	Enabled	40.6 %	40.6 %
22	SIE	N39° 05' 43.8324", W074° 48' 01.2382"	9.0 W	130	H		NO	Enabled	31.4 %	31.4 %
23	EEN	N42° 47' 39.4000", W072° 17' 30.4000"	0.0 E	130	H		NO	Enabled	36.3 %	36.3 %
24	ENE	N43° 25' 32.4197", W070° 36' 48.6917"	17.0 W	130	DH		NO	Enabled	40.1 %	40.1 %
25	PVD	N41° 43' 27.6334", W071° 25' 46.7078"	14.0 W	130	DH		NO	Enabled	50.5 %	50.5 %

DME DME Assessment Results for Q439 path FRIAR_KALDA

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	AUG	BGR	BML	ENE	MLT	MPV
3.7	BML	ENE	MLT	BGR	MPV	
40.0	AUG	BML	BGR	ENE	MPV	BOS
53.2	AUG	BML	MPV	ENE	EEN	BOS
65.9	MPV	AUG	BML	EEN	BOS	LFV
98.8	BOS	EEN	LFV	ENE	MPV	PUT
163.0	BOS	EEN	PUT	PVD	HTO	LFV
169.5	BOS	PVD	EEN	CCC	HTO	ACK
177.9	HTO	PVD	BOS	EEN	LFV	PUT
223.0	HTO	JFK	CCC	PUT	LFV	
234.1	CCC	PUT	JFK	BOS	LFV	
241.7	CCC	PUT	PVD	SAX	JFK	BOS
261.2	JFK	CCC	RBV	HTO	CYN	PUT
271.8	JFK	CCC	RBV	HTO	SAX	CYN
336.3	RBV	SIE	JFK	CYN	CCC	SAX
349.6	RBV	SIE	CYN	JFK	SAX	
356.8	JFK	CYN	EMI	RBV	SAX	
359.2	EMI	JFK	RBV	CYN		
365.5	CYN	SIE	RBV	JFK		
367.4	CYN	SIE	RBV	EMI	JFK	
369.1	EMI	RBV	CYN	JFK		
385.5	EMI	CYN	RBV	JFK	CSN	
387.5	EMI	CYN	RBV	CSN		
393.0	CYN	SIE	RBV	EMI	CSN	
426.3	EMI	SIE	CYN	CSN		
442.5	EMI	SIE	CSN	ORF	CYN	
447.3	EMI	SIE	CSN	ORF		
455.0	EMI	SIE	CSN	ORF	HPW	
460.3	RIC	SIE	ORF	HPW		

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
FRIAR	BLENO	BML, MPV, AUG, MLT, BOS, BGR, ENE, LFV, PUT, PVD, EEN	
BLENO	BOGRT	MPV, HTO, CCC, AUG, BOS, ACK, ENE, LFV, PUT, EEN, PVD	
BOGRT	FOXWD	HTO, MPV, CCC, BOS, ACK, LFV, ENE, PUT, EEN, PVD	
FOXWD	RIFLE	HTO, CCC, BOS, RBV, ACK, SAX, LFV, ENE, PUT, JFK, EEN, PVD	
RIFLE	SARDI	HTO, CCC, BOS, RBV, CYN, SAX, PUT, JFK, PVD	
SARDI	MANTA	HTO, CCC, HUO, RBV, CYN, SAX, JFK, PUT, SIE, PVD	
MANTA	BRIGS	HTO, CCC, RBV, CYN, SAX, JFK, SIE	
BRIGS	SHHAY	EMI, RBV, CYN, SAX, SIE, JFK, CSN	
SHHAY	RADDS	EMI, RBV, CYN, SIE, CSN	
RADDS	BYSEL	EMI, ORF, RBV, CYN, SIE, CSN	
BYSEL	ZJAAY	EMI, ORF, RIC, SIE, HPW, CSN	
ZJAAY	KALDA	ORF, RIC, HPW, SIE	

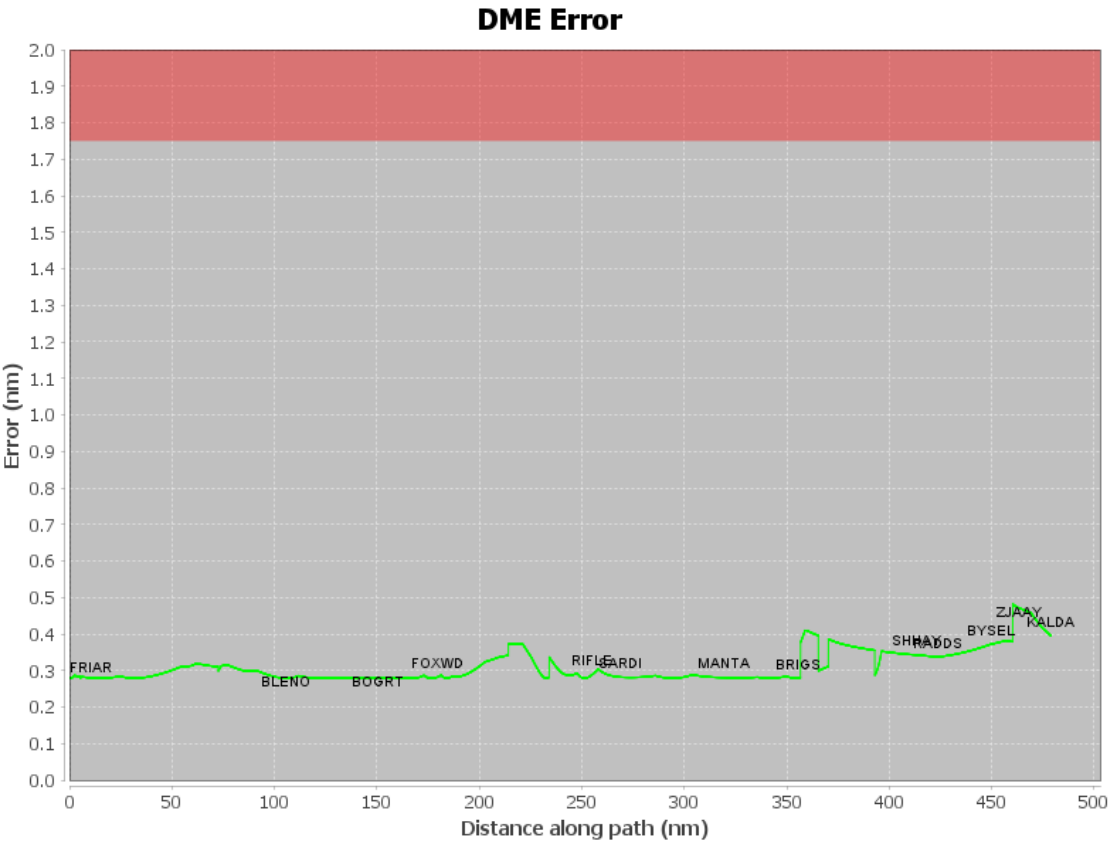
DME DME Assessment Results for Q439 path FRIAR_KALDA

User Data Files

#	File Name
1	UserDMEsQ439 RNAV ROUTE_20250115_1130 EST.udt

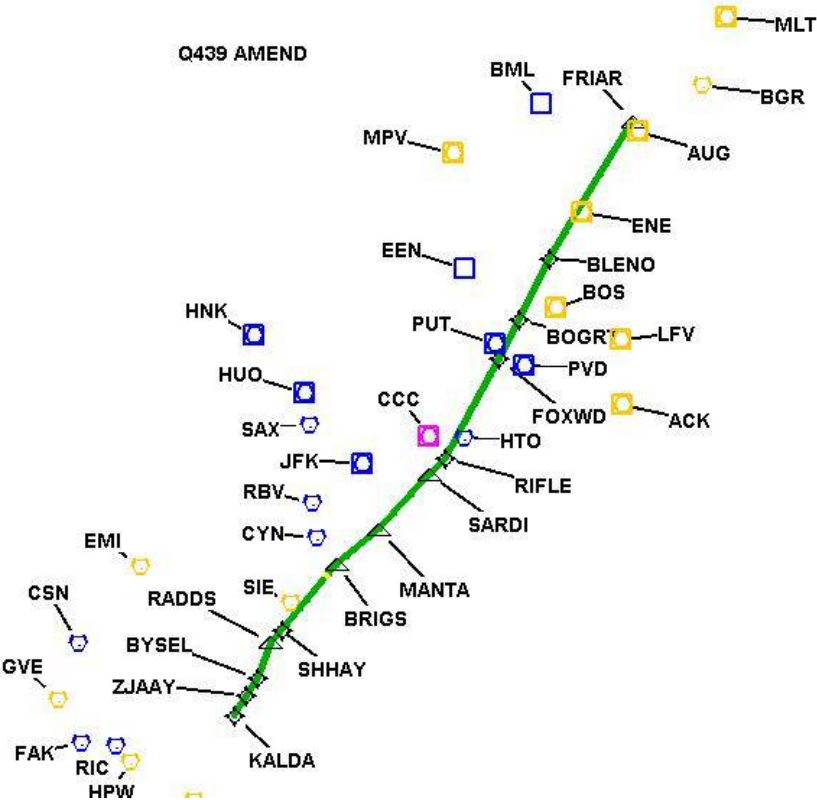
User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	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		
2	UDT ESV EMI EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	820	117.9	UDT ESV EMI	
ESV:		Bearing [True]: 77.0° to 142.0° Bearing [Mag]: 85.0° to 150.0°				Arc Distance: Out to 150.0 NM Altitude: 18000.0 to 33000.0 ft		



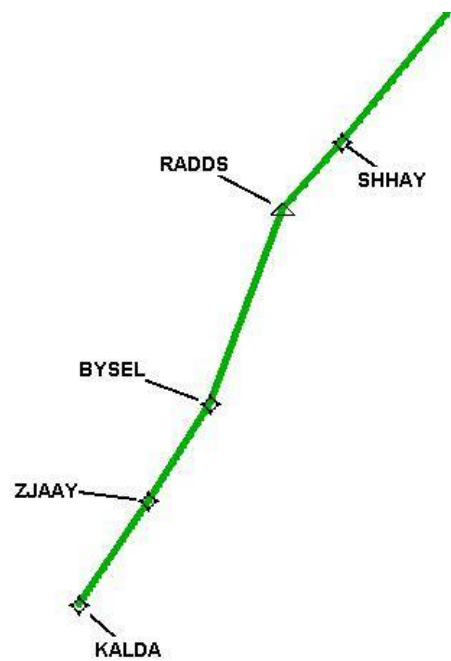
DME DME Assessment Results for Q439 path FRIAR_KALDA

Graphic Depiction 1



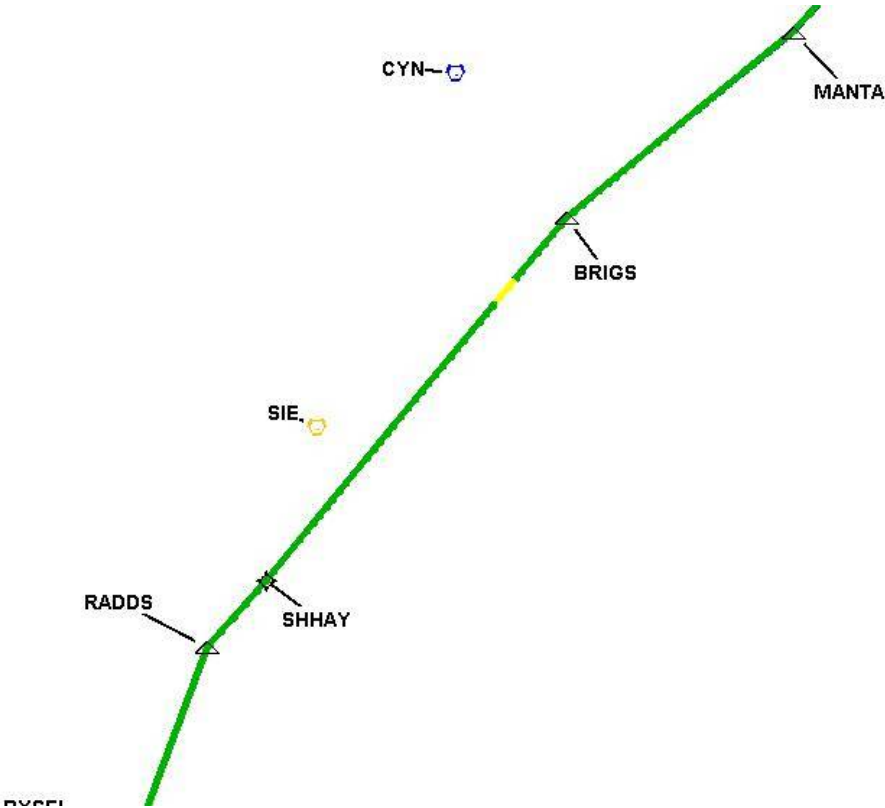
DME DME Assessment Results for Q439 path FRIAR_KALDA

Graphic Depiction 2



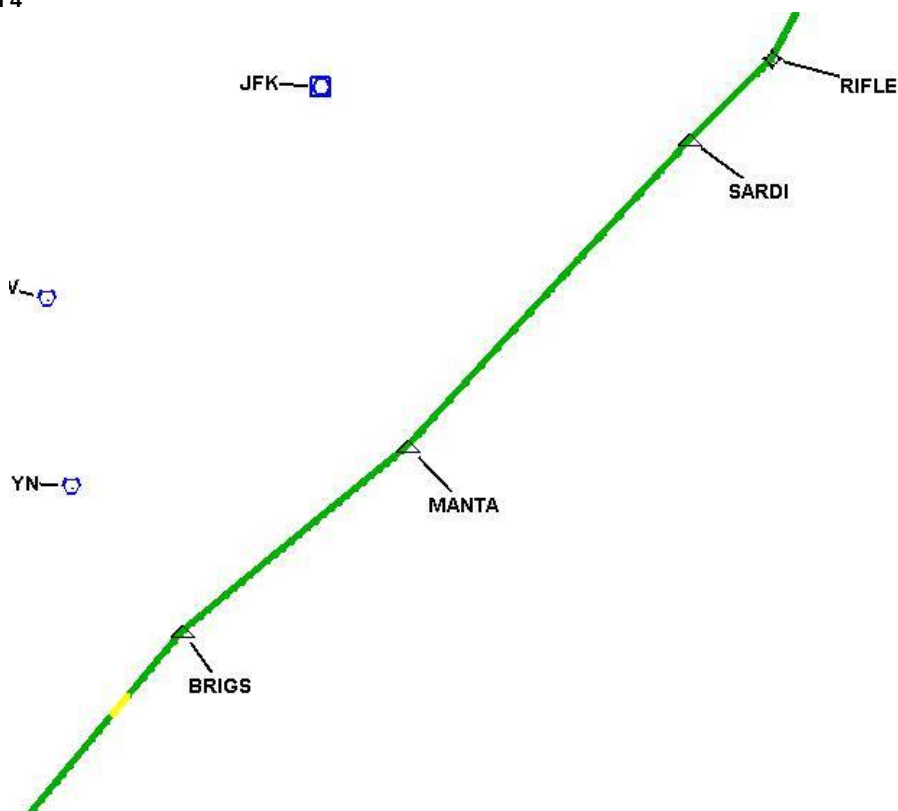
DME DME Assessment Results for Q439 path FRIAR_KALDA

Graphic Depiction 3



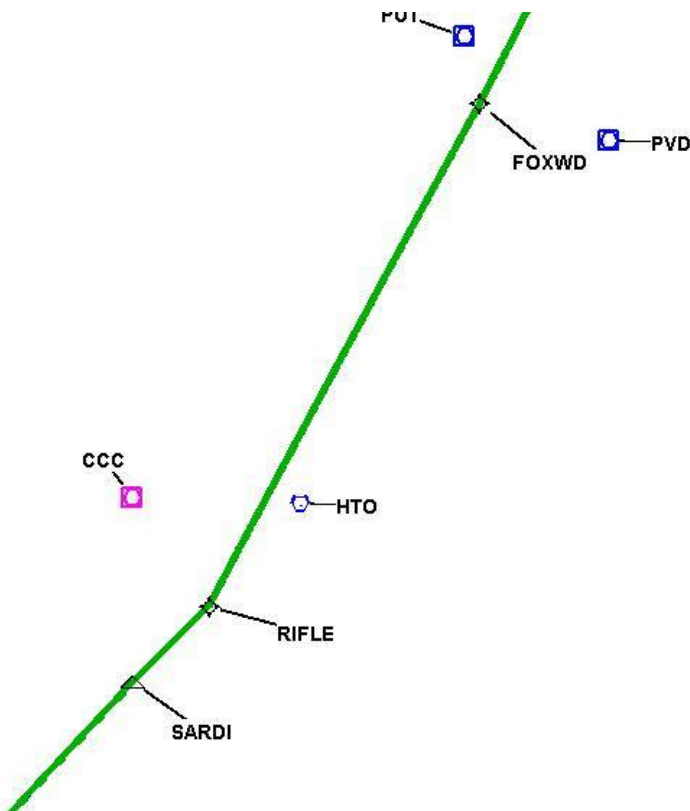
DME DME Assessment Results for Q439 path FRIAR_KALDA

Graphic Depiction 4



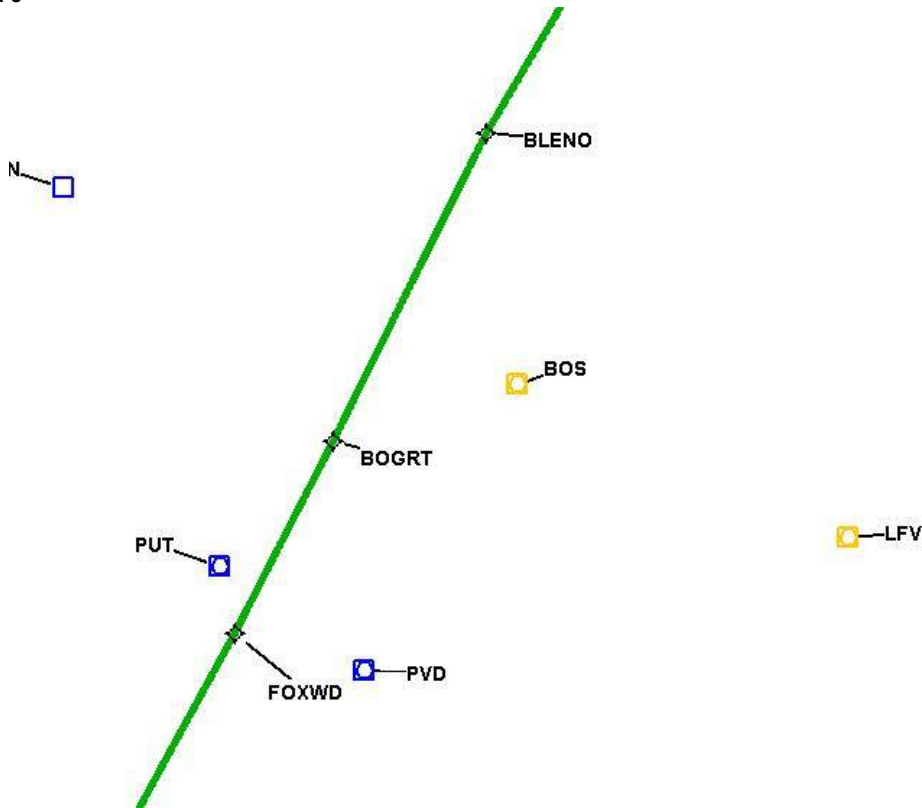
DME DME Assessment Results for Q439 path FRIAR_KALDA

Graphic Depiction 5



DME DME Assessment Results for Q439 path FRIAR_KALDA

Graphic Depiction 6



DME DME Assessment Results for Q439 path FRIAR_KALDA

Graphic Depiction 7

