

FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 STANDARD TERMINAL ARRIVAL (STAR)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated. Distances are in nautical miles (NM). Graphic depictions attached.

Arrival Name TTHOR (RNAV)	Number THREE	STAR Computer Code TTHOR.TTHOR3	Superseded Number TWO	Dated 12/02/2021	Effective Date 19 May 2022
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TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
KYLEG	KYLEG.TTHOR3	KYLEG	KYLEG						
			JAGGZ	154.04	38.56	10000	2000		AT/ABOVE FL240
			WEEEK	181.94	21.06	10000	1400		AT/ABOVE 16000
			TTHOR	183.18	15.40	5000	1400		AT 12000
LPERD	LPERD.TTHOR3	LPERD	LPERD						
			JAGGZ	182.46	19.73	10000	1400		AT/ABOVE FL240
			WEEEK	181.94	21.06	10000	1400		AT/ABOVE 16000
			TTHOR	183.18	15.40	5000	1400		AT 12000

ARRIVAL ROUTE DESCRIPTION:

LANDING KEVB/KOMN/KDAB/KDED/KX50/K7FL6: FROM TTHOR ON TRACK 162.80/9.23 TO CROSS BIKEZ AT 12000, THEN ON TRACK 164.62. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KSFB/KLEE/KORL: FROM TTHOR ON TRACK 182.22/17.69 TO CROSS OWEDN BETWEEN 8000 AND 11000 AND AT 250 KIAS, THEN ON TRACK 182.91/7.28 TO CROSS THANO BETWEEN 7000 AND 9000, THEN ON TRACK 181.60/7.72 TO CROSS RAGNR AT OR BELOW 7000, THEN ON TRACK 184.51/5.56 TO CROSS LOKII AT 5000, THEN ON TRACK 199.92/6.61 TO CROSS MUNKZ AT 5000 AND AT 210 KIAS, THEN ON TRACK 201.10. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES

RADAR REQUIRED

PROCEDURAL DATA NOTES:

NOTE: JET and TURBOPROP AIRCRAFT ONLY.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT LPERD: HOLD N, RT, 194.35 INBOUND, 10 NM LEGS.

CHART HOLDING AT WEEEK: HOLD N, LT, 181.94 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

CHART: ORLANDO APP CON

CHART: DAYTONA APP CON

**This is a corrected copy of the procedure published in NFDD 059.
 ** See page 2 and 3 for details. ****

AIRPORTS SERVED:

ORLANDO, FL (KORL)

LEESBURG, FL (KLEE)



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ORLANDO, FL (KSFB) DAYTONA BEACH, FL (K7FL6) DAYTONA BEACH, FL (KDAB) DELAND, FL (KDED) NEW SMYRNA BEACH, FL (KEVB) ORMOND BEACH, FL (KOMN) NEW SMYRNA BEACH, FL (KX50)					

LOST COMMUNICATIONS PROCEDURE:

REMARKS:

ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION) AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
 MAG VAR: KSFB 05W/2000
 CHART AT MUNKZ TERMINUS: LDG KSFB/KLEE/KORL
 CHART AT BIKEZ TERMINUS: LDG KEVB/KOMN/KDAB/KDED/KX50/K7FL6

FLIGHT INSPECTED BY:

Processed IAW Technical Support Group (AJF-17) Memo dated 07/07/2021, Subject: Guidance for Procedural Changes Requiring Flight Inspection/Validation

Digitally signed by
DONALD H LANIER
 Apr 01, 2022 Signature

DEVELOPED BY:

VICKI TURNER	DESIGN IMPLEMENTATION MANAGER	10/25/2021
Name	AJV22 Organization	Date

Digitally signed by
DONALD H LANIER
 Apr 01, 2022 Signature

APPROVED BY:

LONNIE EVERHART	AJV-A430	01/26/2022
Name	Organization	Date

Digitally signed by
DONALD H LANIER
 Apr 01, 2022 Signature

CHANGES:

1. CHANGED: ALTITUDE at BIKEZ from 10000 to 12000.
 2. DELETED: NOTE: Landing ORL, SFB and LEE, Expect RADAR Vectors prior to MUNKZ. NOTE: NOTE: Landing KDAB, KOMN, KEVB, KDED, K7FL6, KX50, Expect RADAR Vectors prior to BIKEZ.
- 03/22/22: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 02/18/22.
1. DELETED AIRPORT NAMES FROM AIRPORTS SERVED.



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- 2. DELETED PROCEDURAL DATA NOTE: EXPECT "DESCEND VIA" CLEARANCE FROM ARTCC.
- 3. CHANGED REFERENCE MAGNETIC VARIATION = KSFB 05W/2000 TO MAG VAR: KSFB 05W/2000.
- 4. ADDED LDG BEFORE AIRPORT IDENTIFIERS IN CHART AT MUNKZ TERMINUS AND CHART AT BIKEZ TERMINUS NOTES IN ADDITIONAL FLIGHT DATA.

REASONS:

- 1. PROTECT UNDERLYING TRAFFIC FLOWS.
- 2. CHART NOTE Criteria does not allow "EXPECT" Notes.



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 FLIGHT STANDARDS SERVICE
 STANDARD TERMINAL ARRIVAL (STAR)

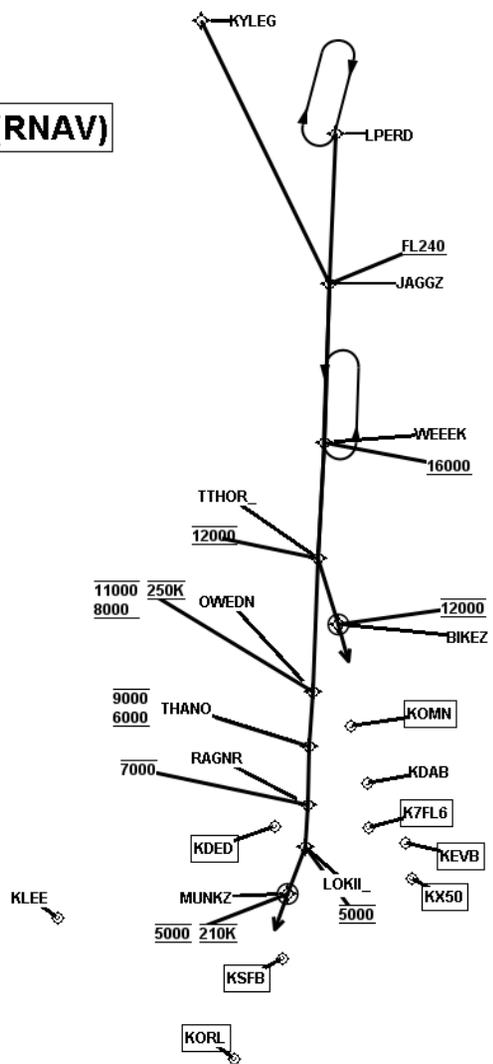
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Graphic Depiction 1

FT	200000	400000	600000	800000	1000000	1200000	1400000
IN	2355873	4711746	7067619	9423492	11779365	14135236	16491111

TTHOR (RNAV)



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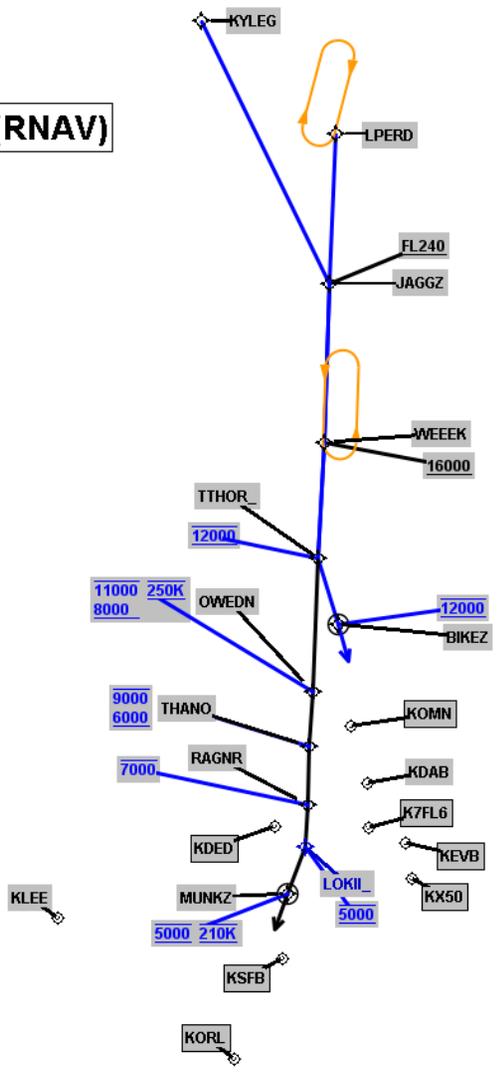
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Graphic Depiction 2

FT	200000	400000	600000	800000	1000000	1200000	1400000
IN	2355873	4711746	7067619	9423492	11779385	14135238	16491111

TTHOR (RNAV)

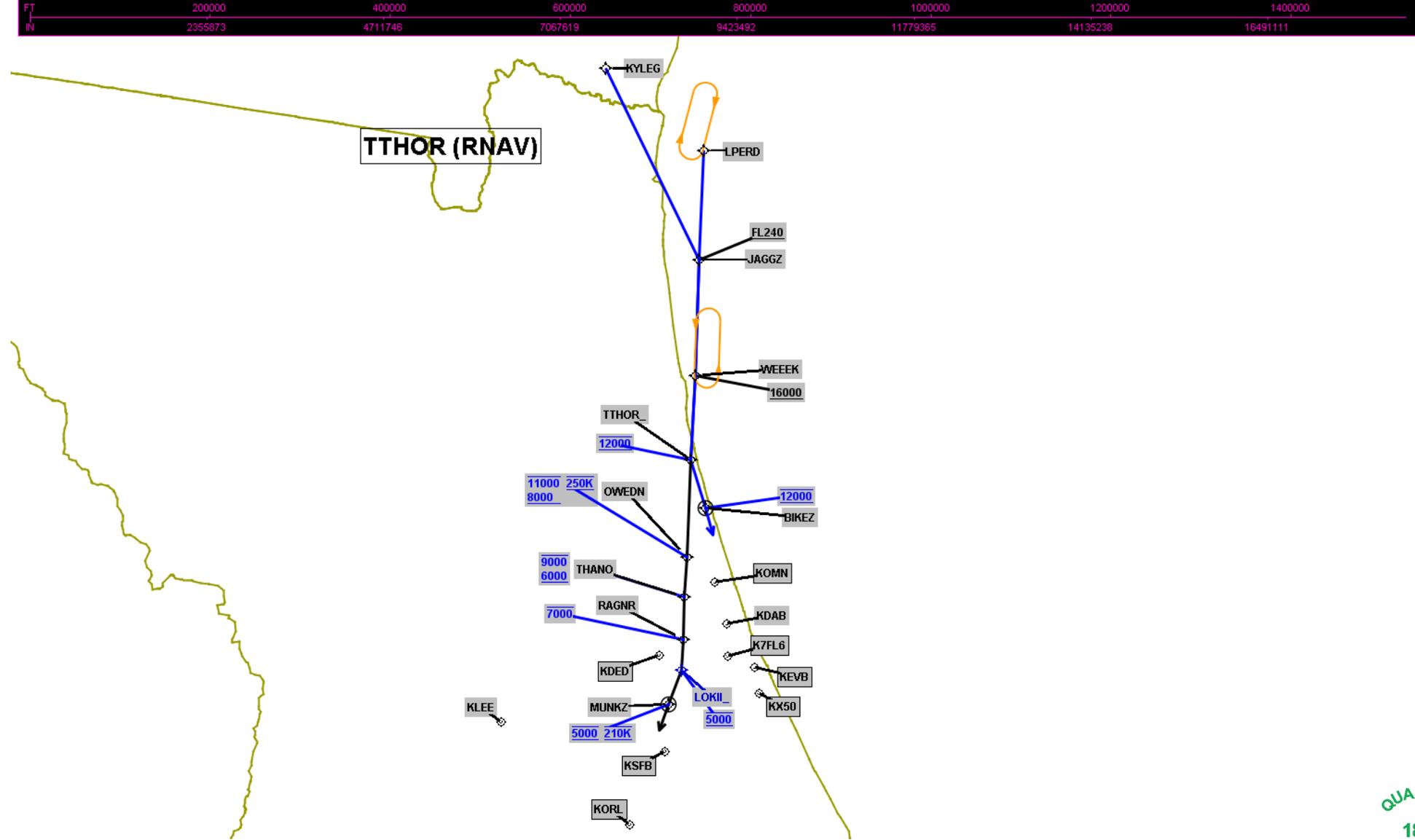


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Graphic Depiction 3



FEDERAL AVIATION ADMINISTRATION
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 STAR (DATA RECORD)

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
KYLEG	304934.41N / 0813845.92W	Y		IF					KYLEG.TTHOR3
JAGGZ	301623.63N / 0811551.49W	Y	FB	TF	149.04	38.56	AT/ABOVE FL240		
WEEEK	295518.81N / 0811433.77W	Y	FB	TF	176.94	21.06	AT/ABOVE 16000		
TTHOR	293953.20N / 0811400.03W	Y	FB	TF	178.18	15.40	AT 12000		

En Route Transition									
LPERD	303609.18N / 0811652.16W	Y		IF					LPERD.TTHOR3
JAGGZ	301623.63N / 0811551.49W	Y	FB	TF	177.46	19.73	AT/ABOVE FL240		
WEEEK	295518.81N / 0811433.77W	Y	FB	TF	176.94	21.06	AT/ABOVE 16000		
TTHOR	293953.20N / 0811400.03W	Y	FB	TF	178.18	15.40	AT 12000		

Common Route									
TTHOR	293953.20N / 0811400.03W	Y		IF			AT 12000		TTHOR.TTHOR3
BIKEZ	293119.02N / 0811000.11W	Y	FO	TF	157.80	09.23	AT 12000		
7FL6,KDAB,KDED, KEVB,KOMN,KX50				FM	159.62				

Common Route									
TTHOR	293953.20N / 0811400.03W	Y		IF			AT 12000		TTHOR.TTHOR3
OWEDN	292210.25N / 0811301.08W	Y	FB	TF	177.22	17.69	8000B11000	AT 250K	
THANO	291452.60N / 0811242.88W	Y	FB	TF	177.91	07.28	7000B9000		
RAGNR	290708.75N / 0811211.54W	Y	FB	TF	176.60	07.72	AT/BELOW 7000		
LOKII	290134.32N / 0811208.31W	Y	FB	TF	179.51	05.56	AT 5000		
MUNKZ	285510.17N / 0811404.69W	Y	FO	TF	194.93	06.61	AT 5000	AT 210K	
KLEE,KORL,KSFB				FM	196.10				

