

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.
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Arrival Name FROGZ (RNAV)	Number FOUR	STAR Computer Code FROGZ.FROGZ4	Superseded Number THREE	Dated 09/08/2022	Effective Date 15 Jun 2023				
TRANSITION ROUTES:									
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
ACORI	ACORI.FROGZ4	ACORI	ACORI						
			BULZI	136.92	124.30	FL180	2600		
			SNAPY	155.02	38.62	FL180	2600		
			NICKI	155.21	38.49	FL180	2600		
			BROMO	160.97	81.48	FL180	2600		
			SCURF	175.04	29.13	FL180	2100		
			PLOWS	170.29	38.10	FL180	2100		AT/ABOVE FL340
			MATNY	144.24	30.36	FL180	2100		
			KLEET	142.78	23.66	FL180	2100		BETWEEN FL210 AND FL280
			BARBN	120.68	22.95	12000	2100		AT/ABOVE 15000
			JAMAS	120.72	16.61	9000	1300		AT/ABOVE 11000
			FROGZ	120.84	05.00	9000	1300		
BROMO	BROMO.FROGZ4	BROMO	BROMO						
			SCURF	175.04	29.13	FL180	2100		
			PLOWS	170.29	38.10	FL180	2100		AT/ABOVE FL340
			MATNY	144.24	30.36	FL180	2100		
			KLEET	142.78	23.66	FL180	2100		BETWEEN FL210 AND FL280
			BARBN	120.68	22.95	12000	2100		AT/ABOVE 15000
			JAMAS	120.72	16.61	9000	1300		AT/ABOVE 11000
			FROGZ	120.84	05.00	9000	1300		
DEFUN	DEFUN.FROGZ4	DEFUN	DEFUN						
			CABLO	096.70	66.78	FL180	2600		
			BULZI	126.06	46.28	FL180	2600		
			SNAPY	155.02	38.62	FL180	2600		
			NICKI	155.21	38.49	FL180	2600		
			BROMO	160.97	81.48	FL180	2600		
			SCURF	175.04	29.13	FL180	2100		

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Arrival Name		Number		STAR Computer Code		Superseded Number			Dated	Effective Date
FROGZ (RNAV)		FOUR		FROGZ.FROGZ4		THREE			09/08/2022	15 Jun 2023
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes	
			PLOWS	170.29	38.10	FL180	2100		AT/ABOVE FL340	
			MATNY	144.24	30.36	FL180	2100			
			KLEET	142.78	23.66	FL180	2100		BETWEEN FL210 AND FL280	
			BARBN	120.68	22.95	12000	2100		AT/ABOVE 15000	
			JAMAS	120.72	16.61	9000	1300		AT/ABOVE 11000	
			FROGZ	120.84	05.00	9000	1300			
GAWKS	GAWKS.FROGZ4	GAWKS	GAWKS							
			BAGGS	107.03	13.50	FL180	2100			
			PLOWS	126.47	25.05	FL180	2100		AT/ABOVE FL340	
			MATNY	144.24	30.36	FL180	2100			
			KLEET	142.78	23.66	FL180	2100		BETWEEN FL210 AND FL280	
			BARBN	120.68	22.95	12000	2100		AT/ABOVE 15000	
			JAMAS	120.72	16.61	9000	1300		AT/ABOVE 11000	
			FROGZ	120.84	05.00	9000	1300			
HONID	HONID.FROGZ4	HONID	HONID							
			IPOKE	172.75	49.21	FL180	2600			
			BULZI	172.85	28.80	FL180	2600			
			SNAPY	155.02	38.62	FL180	2600			
			NICKI	155.21	38.49	FL180	2600			
			BROMO	160.97	81.48	FL180	2600			
			SCURF	175.04	29.13	FL180	2100			
			PLOWS	170.29	38.10	FL180	2100		AT/ABOVE FL340	
			MATNY	144.24	30.36	FL180	2100			
			KLEET	142.78	23.66	FL180	2100		BETWEEN FL210 AND FL280	
			BARBN	120.68	22.95	12000	2100		AT/ABOVE 15000	
			JAMAS	120.72	16.61	9000	1300		AT/ABOVE 11000	
			FROGZ	120.84	05.00	9000	1300			
MARCI	MARCI.FROGZ4	MARCI	MARCI						BETWEEN FL210 AND FL280	

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Arrival Name FROGZ (RNAV)		Number FOUR		STAR Computer Code FROGZ.FROGZ4	Superseded Number THREE			Dated 09/08/2022	Effective Date 15 Jun 2023
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
			SUMPS	092.89	31.59	9000	1400		AT/ABOVE 11000
			FROGZ	093.49	08.85	9000	1400		
SABEE	SABEE.FROGZ4	SABEE	SABEE						AT/BELOW FL250
			EXACT	175.14	20.01	FL180	2100		
			MATNY	173.12	13.94	FL180	2100		
			KLEET	142.78	23.66	FL180	2100		BETWEEN FL210 AND FL280
			BARBN	120.68	22.95	12000	2100		AT/ABOVE 15000
			JAMAS	120.72	16.61	9000	1300		AT/ABOVE 11000
			FROGZ	120.84	05.00	9000	1300		
SCURF	SCURF.FROGZ4	SCURF	SCURF						
			PLOWS	170.29	38.10	FL180	2100		AT/ABOVE FL340
			MATNY	144.24	30.36	FL180	2100		
			KLEET	142.78	23.66	FL180	2100		BETWEEN FL210 AND FL280
			BARBN	120.68	22.95	12000	2100		AT/ABOVE 15000
			JAMAS	120.72	16.61	9000	1300		AT/ABOVE 11000
			FROGZ	120.84	05.00	9000	1300		

ARRIVAL ROUTE DESCRIPTION:

LANDING KMIA RWY 12, 8L/R, 9: FROM FROGZ ON TRACK 117.94/3.20 TO CROSS ARRTT BETWEEN 9000 AND 11000 AND AT 250 KIAS, THEN ON TRACK 117.97/2.92 TO CROSS ASPPN AT OR BELOW 10000, THEN ON TRACK 117.99/4.65 TO CROSS PBJAY AT OR ABOVE 8000, THEN ON TRACK 118.03/4.32 TO SCHAR, THEN ON TRACK 118.06/6.69 TO ACERE, THEN ON TRACK 092.06/5.30 TO CROSS LLEGG AT 4000. EXPECT ILS OR RNAV RWY 9 APPROACH OR RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KMIA RWY 26L/R, 27, 30: FROM FROGZ ON TRACK 115.73/7.06 TO CROSS ENOLE BETWEEN 14000 AND 16000, THEN ON TRACK 115.97/4.00 TO HAKUL, THEN ON TRACK 091.21/4.01 TO CROSS VEYGA AT OR ABOVE 13000 AND AT 250 KIAS, THEN ON TRACK 091.17/6.35 TO CROSS SOFAS AT OR ABOVE 11000, THEN ON TRACK 091.42/2.47 TO HOLEZ, THEN ON TRACK 123.20/2.87 TO CROSS COTOL AT OR BELOW 11000, THEN ON TRACK 123.18/11.65 TO CROSS MACYS AT OR ABOVE 8000, THEN ON TRACK 124.02/5.35 TO REELN, THEN ON TRACK 124.06/10.65 TO CROSS WNNER AT 5000, THEN ON TRACK 124.06. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING 07FA/X51/KHST/KTMB: FROM FROGZ ON TRACK 130.41/8.05 TO CROSS HATUG AT 9000, THEN ON HEADING 140.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

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FROGZ (RNAV)	FOUR	FROGZ.FROGZ4	THREE	09/08/2022	15 Jun 2023

PROCEDURAL DATA NOTES:

NOTE: JET AIRCRAFT ONLY

NOTE: LANDING EAST USE RUNWAY 9 TRANSITION, LANDING WEST USE RUNWAY 30 TRANSITION. EXPECT RUNWAY ASSIGNMENT FROM MIA APPROACH PRIOR TO FROGZ.

NOTE: DO NOT FILE BROMO OR SCURF TRANSITION - TO BE ASSIGNED BY ATC.

NOTE: SABEE TRANSITION FOR TRAFFIC DEPARTING KTPA AREA ONLY.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT BARBN: HOLD NW, RT, 120.67 INBOUND, 10 NM LEGS.

CHART HOLDING AT BROMO: HOLD N, RT, 160.97 INBOUND, 10 NM LEGS.

CHART HOLDING AT FROGZ: HOLD NW, RT, 120.72 INBOUND, 10 NM LEGS.

CHART HOLDING AT GAWKS: HOLD W, LT, 107.03 INBOUND, 15 NM LEGS.

CHART HOLDING AT KLEET: HOLD NW, RT, 142.78 INBOUND, 10 NM LEGS.

CHART HOLDING AT MARCI: HOLD W, LT, 100.00 INBOUND, 10 NM LEGS.

CHART HOLDING AT MATNY: HOLD NW, RT, 146.95 INBOUND, 10 NM LEGS.

CHART HOLDING AT SCURF: HOLD N, RT, 175.04 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

CHART MIAMI APP CON

CHART MIAMI HOMESTEAD GENERAL AVIATION AWOS

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KMIA	MIAMI	FL
KHST	HOMESTEAD	FL
KTMB	MIAMI	FL
X51	HOMESTEAD	FL
07FA	KEY LARGO	FL

LOST COMMUNICATIONS PREFERENCES:

REMARKS:

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

OBSTACLES OVER WATER ASSUMED AS 295 FT SHIPS.

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FROGZ (RNAV)	FOUR	FROGZ.FROGZ4	THREE	09/08/2022	15 Jun 2023

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
MAG VAR: KMIA 05W/2000
CHART AT LLEGG TERMINUS: KMIA LDG RWY 12, 8L/R, 9
CHART AT WNNER TERMINUS: KMIA LDG RWY 26L/R, 27, 30
CHART AT HATUG TERMINUS: LDG 07FA/X51/KHST/KTMB

FLIGHT INSPECTED BY:

EDWARD W MESA

ORGANIZATION:

FPO

DATE:

03/02/2023

Flight Inspected Signature:

*Digitally signed by***ALLAN WILL**

Mar 03, 2023

*Digitally signed by***ALLAN WILL**

Mar 03, 2023

*Digitally signed by***ALLAN WILL**

Mar 03, 2023

DEVELOPED BY:

David Johnson

ESA PBN Co-Lead 09/13/2022

Developed By Signature:

APPROVED BY:

ALLAN WILL

AJV-A420

Approved By Signature:

CHANGES:

1. CHANGED ALTITUDE REQUIREMENT AT MARCI FROM "AT/ABOVE 15000" TO "BETWEEN FL210 AND FL280/280KIAS."
2. MARCI TRANSITION, ADDED WP SUMPS WITH AT/ABOVE 11000/280KIAS REQUIREMENT.
3. REMOVED KOPF FROM AIRPORTS SERVED.
4. ADDITIONAL FLIGHT DATA, REMOVED "CHART AT DRIER TERMINUS: LDG KOPF".

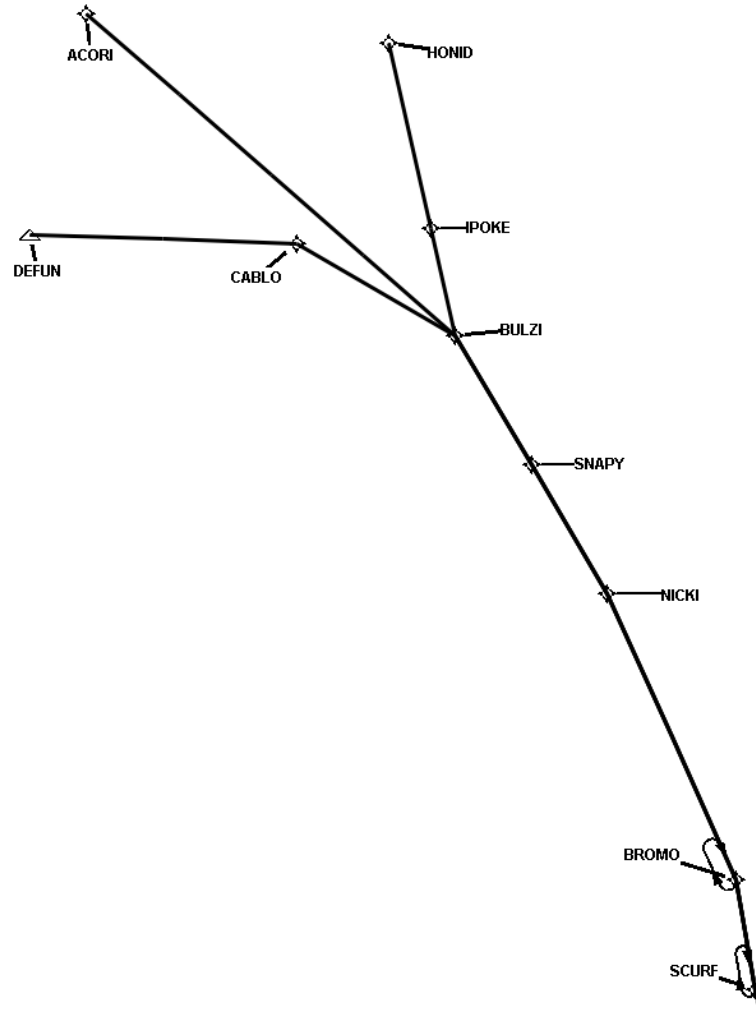
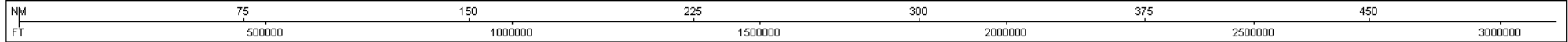
REASONS:

1. ATC REQUEST, MORE EFFECTIVE AND PREDICTABLE TRAFFIC FLOW.
2. ATC REQUEST, TO SUPPORT AIRSPACE REQUIREMENTS.
3. NEW PROCEDURE (KOPF CURTT (RNAV) STAR) DEVELOPED FOR AIRCRAFT LANDING KOPF.
4. ATC REQUEST, NEW PROCEDURE DEVELOPED FOR KOPF.

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FROGZ (RNAV)	FOUR	FROGZ.FROGZ4	THREE	09/08/2022	15 Jun 2023

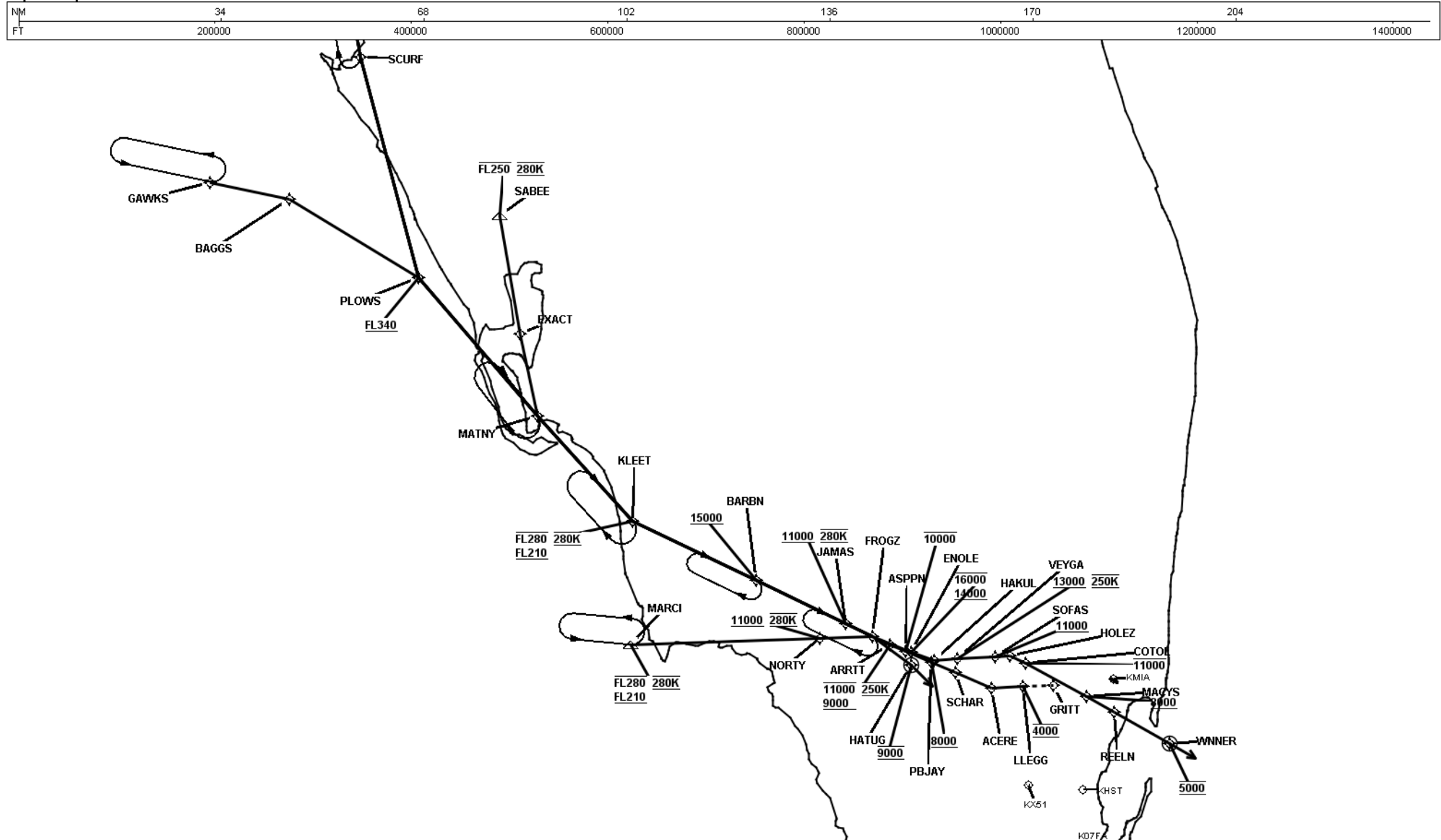
Graphic Depiction 1

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
FROGZ (RNAV)	FOUR	FROGZ.FROGZ4	THREE	09/08/2022	15 Jun 2023

Graphic Depiction 2



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)**

Arrival Name FROGZ (RNAV)		Number FOUR		STAR Computer Code FROGZ.FROGZ4		Superseded Number THREE		Dated 09/08/2022	Effective Date 15 Jun 2023
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
ACORI	314623.36N / 0855129.51W	Y		IF					ACORI.FROGZ4
BULZI	302224.93N / 0840434.47W	Y	FB	TF	131.92	124.30			
SNAPY	294851.17N / 0834223.61W	Y	FB	TF	150.02	38.62			
NICKI	291520.19N / 0832031.80W	Y	FB	TF	150.21	38.49			
BROMO	280038.28N / 0824302.49W	Y	FB	TF	155.97	81.48			
SCURF	273152.17N / 0823722.51W	Y	FB	TF	170.04	29.13			
PLOWS	265454.45N / 0822633.32W	Y	FB	TF	165.29	38.10	AT/ABOVE FL340		
MATNY	263149.04N / 0820427.61W	Y	FB	TF	139.24	30.36			
KLEET	261413.77N / 0814646.79W	Y	FB	TF	137.78	23.66	FL210BFL280	AT 280K	
BARBN	260413.49N / 0812348.81W	Y	FB	TF	115.68	22.95	AT/ABOVE 15000		
JAMAS	255658.69N / 0810712.65W	Y	FB	TF	115.72	16.61	AT/ABOVE 11000	AT 280K	
FROGZ	255447.44N / 0810213.20W	Y	FB	TF	115.84	05.00			
En Route Transition									
BROMO	280038.28N / 0824302.49W	Y		IF					BROMO.FROGZ4
SCURF	273152.17N / 0823722.51W	Y	FB	TF	170.04	29.13			
PLOWS	265454.45N / 0822633.32W	Y	FB	TF	165.29	38.10	AT/ABOVE FL340		
MATNY	263149.04N / 0820427.61W	Y	FB	TF	139.24	30.36			
KLEET	261413.77N / 0814646.79W	Y	FB	TF	137.78	23.66	FL210BFL280	AT 280K	
BARBN	260413.49N / 0812348.81W	Y	FB	TF	115.68	22.95	AT/ABOVE 15000		
JAMAS	255658.69N / 0810712.65W	Y	FB	TF	115.72	16.61	AT/ABOVE 11000	AT 280K	
FROGZ	255447.44N / 0810213.20W	Y	FB	TF	115.84	05.00			
En Route Transition									
DEFUN	304851.27N / 0860753.09W	Y		IF					DEFUN.FROGZ4
CABLO	304629.00N / 0845024.00W	Y	FB	TF	091.70	66.78			
BULZI	302224.93N / 0840434.47W	Y	FB	TF	121.06	46.28			
SNAPY	294851.17N / 0834223.61W	Y	FB	TF	150.02	38.62			
NICKI	291520.19N / 0832031.80W	Y	FB	TF	150.21	38.49			

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Arrival Name FROGZ (RNAV)		Number FOUR		STAR Computer Code FROGZ.FROGZ4		Superseded Number THREE		Dated 09/08/2022	Effective Date 15 Jun 2023
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
BROMO	280038.28N / 0824302.49W	Y	FB	TF	155.97	81.48			
SCURF	273152.17N / 0823722.51W	Y	FB	TF	170.04	29.13			
PLOWS	265454.45N / 0822633.32W	Y	FB	TF	165.29	38.10	AT/ABOVE FL340		
MATNY	263149.04N / 0820427.61W	Y	FB	TF	139.24	30.36			
KLEET	261413.77N / 0814646.79W	Y	FB	TF	137.78	23.66	FL210BFL280	AT 280K	
BARBN	260413.49N / 0812348.81W	Y	FB	TF	115.68	22.95	AT/ABOVE 15000		
JAMAS	255658.69N / 0810712.65W	Y	FB	TF	115.72	16.61	AT/ABOVE 11000	AT 280K	
FROGZ	255447.44N / 0810213.20W	Y	FB	TF	115.84	05.00			
En Route Transition									
GAWKS	271053.38N / 0830515.17W	Y		IF					GAWKS.FROGZ4
BAGGS	270803.28N / 0825027.20W	Y	FB	TF	102.03	13.50			
PLOWS	265454.45N / 0822633.32W	Y	FB	TF	121.47	25.05	AT/ABOVE FL340		
MATNY	263149.04N / 0820427.61W	Y	FB	TF	139.24	30.36			
KLEET	261413.77N / 0814646.79W	Y	FB	TF	137.78	23.66	FL210BFL280	AT 280K	
BARBN	260413.49N / 0812348.81W	Y	FB	TF	115.68	22.95	AT/ABOVE 15000		
JAMAS	255658.69N / 0810712.65W	Y	FB	TF	115.72	16.61	AT/ABOVE 11000	AT 280K	
FROGZ	255447.44N / 0810213.20W	Y	FB	TF	115.84	05.00			
En Route Transition									
HONID	313850.31N / 0842342.60W	Y		IF					HONID.FROGZ4
IPOKE	305038.05N / 0841134.84W	Y	FB	TF	167.75	49.21			
BULZI	302224.93N / 0840434.47W	Y	FB	TF	167.85	28.80			
SNAPY	294851.17N / 0834223.61W	Y	FB	TF	150.02	38.62			
NICKI	291520.19N / 0832031.80W	Y	FB	TF	150.21	38.49			
BROMO	280038.28N / 0824302.49W	Y	FB	TF	155.97	81.48			
SCURF	273152.17N / 0823722.51W	Y	FB	TF	170.04	29.13			
PLOWS	265454.45N / 0822633.32W	Y	FB	TF	165.29	38.10	AT/ABOVE FL340		
MATNY	263149.04N / 0820427.61W	Y	FB	TF	139.24	30.36			
KLEET	261413.77N / 0814646.79W	Y	FB	TF	137.78	23.66	FL210BFL280	AT 280K	

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
BARBN	260413.49N / 0812348.81W	Y	FB	TF	115.68	22.95	AT/ABOVE 15000		
JAMAS	255658.69N / 0810712.65W	Y	FB	TF	115.72	16.61	AT/ABOVE 11000	AT 280K	
FROGZ	255447.44N / 0810213.20W	Y	FB	TF	115.84	05.00			
En Route Transition									
MARCI	255327.84N / 0814702.37W	Y		IF			FL210BFL280	AT 280K	MARCI.FROGZ4
SUMPS	255433.73N / 0811201.92W	Y	FB	TF	087.89	31.59	AT/ABOVE 11000	AT 280K	
FROGZ	255447.44N / 0810213.20W	Y	FB	TF	088.49	08.85			
En Route Transition									
SABEE	270516.20N / 0821129.33W	Y		IF			AT/BELOW FL250	AT 280K	SABEE.FROGZ4
EXACT	264529.90N / 0820739.62W	Y	FB	TF	170.14	20.01			
MATNY	263149.04N / 0820427.61W	Y	FB	TF	168.12	13.94			
KLEET	261413.77N / 0814646.79W	Y	FB	TF	137.78	23.66	FL210BFL280	AT 280K	
BARBN	260413.49N / 0812348.81W	Y	FB	TF	115.68	22.95	AT/ABOVE 15000		
JAMAS	255658.69N / 0810712.65W	Y	FB	TF	115.72	16.61	AT/ABOVE 11000	AT 280K	
FROGZ	255447.44N / 0810213.20W	Y	FB	TF	115.84	05.00			
En Route Transition									
SCURF	273152.17N / 0823722.51W	Y		IF					SCURF.FROGZ4
PLOWS	265454.45N / 0822633.32W	Y	FB	TF	165.29	38.10	AT/ABOVE FL340		
MATNY	263149.04N / 0820427.61W	Y	FB	TF	139.24	30.36			
KLEET	261413.77N / 0814646.79W	Y	FB	TF	137.78	23.66	FL210BFL280	AT 280K	
BARBN	260413.49N / 0812348.81W	Y	FB	TF	115.68	22.95	AT/ABOVE 15000		
JAMAS	255658.69N / 0810712.65W	Y	FB	TF	115.72	16.61	AT/ABOVE 11000	AT 280K	
FROGZ	255447.44N / 0810213.20W	Y	FB	TF	115.84	05.00			

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Arrival Name FROGZ (RNAV)	Number FOUR	STAR Computer Code FROGZ.FROGZ4		Superseded Number THREE		Dated 09/08/2022	Effective Date 15 Jun 2023		
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
Common Route									
FROGZ	255447.44N / 0810213.20W	Y		IF					FROGZ.FROGZ4
HATUG	255006.59N / 0805457.02W	Y	FO	TF	125.41	08.05	AT 9000		
07FA,KHST,KTMB, X51				VM	135.00				
Runway Transition									
FROGZ	255447.44N / 0810213.20W	Y		IF					
ARRTT	255332.27N / 0805856.99W	Y	FB	TF	112.94	03.20	9000B11000	AT 250K	
ASPPN	255223.77N / 0805558.42W	Y	FB	TF	112.97	02.92	AT/BELOW 10000		
PBJAY	255034.47N / 0805113.93W	Y	FB	TF	112.99	04.65	AT/ABOVE 8000		
SCHAR	254852.70N / 0804649.54W	Y	FB	TF	113.03	04.32			
ACERE	254614.84N / 0804000.36W	Y	FB	TF	113.06	06.69			
LLEGG	254631.10N / 0803408.58W	Y	FB	TF	087.06	05.30	AT 4000		
KMIA:RWY 8L,RWY 8R,RWY 9,RWY 12									
Runway Transition									
FROGZ	255447.44N / 0810213.20W	Y		IF					
ENOLE	255216.91N / 0805454.03W	Y	FB	TF	110.73	07.06	14000B16000		
HAKUL	255050.65N / 0805045.44W	Y	FB	TF	110.97	04.00			
VEYGA	255106.53N / 0804619.20W	Y	FB	TF	086.21	04.01	AT/ABOVE 13000	AT 250K	
SOFAS	255131.86N / 0803917.68W	Y	FB	TF	086.17	06.35	AT/ABOVE 11000		
HOLEZ	255141.12N / 0803633.69W	Y	FB	TF	086.42	02.47			
COTOL	255019.36N / 0803345.28W	Y	FB	TF	118.20	02.87	AT/BELOW 11000		
MACYS	254447.73N / 0802222.80W	Y	FB	TF	118.18	11.65	AT/ABOVE 8000		
REELN	254211.36N / 0801711.85W	Y	FB	TF	119.02	05.35			
WNNER	253659.80N / 0800654.06W	Y	FO	TF	119.06	10.65	AT 5000		
KMIA:RWY 26L,RWY 26R,RWY 27,RWY 30				FM	119.06				