

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
KLADA	TWO	KLADA2.KLADA	ONE	08/12/2021	19 May 2022

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	☐	☐	☒	☐	☒

DP ROUTE DESCRIPTION:

MIAMI INTL:

TAKEOFF RWY 8L: CLIMB ON HEADING 092.38 TO INTERCEPT COURSE 122.99 TO JAMBA, THEN ON TRACK 123.61 TO KBOLA, THEN ON TRACK 115.05 TO KLADA, THENCE...

TAKEOFF RWY 8R: CLIMB ON HEADING 092.38 TO INTERCEPT COURSE 123.65 TO JAMBA, THEN ON TRACK 123.61 TO KBOLA, THEN ON TRACK 115.05 TO KLADA, THENCE...

TAKEOFF RWY 9: CLIMB ON HEADING 092.37 TO INTERCEPT COURSE 111.24 TO JAMBA, THEN ON TRACK 123.61 TO KBOLA, THEN ON TRACK 115.05 TO KLADA, THENCE...

TAKEOFF RWY 12: CLIMB ON HEADING 124.46 TO INTERCEPT COURSE 102.42 TO JAMBA, THEN ON TRACK 123.61 TO KBOLA, THEN ON TRACK 115.05 TO KLADA, THENCE...

TAKEOFF RWY 26L: CLIMB ON HEADING 272.39 TO INTERCEPT COURSE 259.98 TO KSENS, THEN ON TRACK 231.23 TO COOZY, THEN ON TRACK 184.89 TO HAMAK, THEN ON TRACK 124.51 TO LONZO, THEN ON TRACK 093.42 TO CWEAD, THEN ON TRACK 097.91 TO KLADA, THENCE...

TAKEOFF RWY 26R: CLIMB ON HEADING 272.39 TO INTERCEPT COURSE 258.12 TO KSENS, THEN ON TRACK 231.23 TO COOZY, THEN ON TRACK 184.89 TO HAMAK, THEN ON TRACK 124.51 TO LONZO, THEN ON TRACK 093.42 TO CWEAD, THEN ON TRACK 097.91 TO KLADA, THENCE...

TAKEOFF RWY 27: CLIMB ON HEADING 272.39 TO 520, THEN DIRECT KSENS, THEN ON TRACK 231.23 TO COOZY, THEN ON TRACK 184.89 TO HAMAK, THEN ON TRACK 124.51 TO LONZO, THEN ON TRACK 093.42 TO CWEAD, THEN ON TRACK 097.91 TO KLADA, THENCE...

TAKEOFF RWY 30: CLIMB ON HEADING 304.47 TO INTERCEPT COURSE 254.00 TO KSENS, THEN ON TRACK 231.23 TO COOZY, THEN ON TRACK 184.89 TO HAMAK, THEN ON TRACK 124.51 TO LONZO, THEN ON TRACK 093.42 TO CWEAD, THEN ON TRACK 097.91 TO KLADA, THENCE...

...ON ASSIGNED TRANSITION, MAINTAIN 5000, EXPECT FILED ALTITUDE WITHIN 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
BITAC	KLADA2.BITAC	KLADA	MEDLI	TRACK 116.90	65.99	FL180	1300	
		MEDLI	BITAC	TRACK 119.20	62.09	FL180	1300	
JAGOR	KLADA2.JAGOR	KLADA	UPACE	TRACK 121.00	66.83	FL180	1300	
		UPACE	JAGOR	TRACK 123.37	53.54	FL180	1300	



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KLADA	TWO	KLADA2.KLADA	ONE	08/12/2021	19 May 2022
RAJAY	KLADA2.RAJAY	KLADA	ELQUE	TRACK 110.88	70.32 FL180 1300
	ELQUE	RAJAY	TRACK 087.86	14.81 FL180	1300

PROCEDURAL DATA NOTES:

NOTE: JET AIRCRAFT ONLY.

NOTE: ACCELERATE TO 250 KIAS, IF UNABLE, ADVISE ATC.

NOTE: RAJAY TRANSITION, ELQUE TO RAJAY SEGMENT-GPS.

NOTE: BITAC TRANSITION, MEDLI TO BITAC SEGMENT-GPS.

NOTE: JAGOR TRANSITION, UPACE TO JAGOR SEGMENT-GPS.

NOTE: RAJAY TRANSITION IS ONLY FOR TRAFFIC FILED AT OR BELOW FL230.

PBN REQUIREMENTS NOTES:

RNAV 1 - DME/DME/IRU OR GPS.

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.

TAKEOFF MINIMUMS:

RWY 8L: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, THEN MINIMUM CLIMB OF 215 FT PER NM TO 1400.

RWY 8R: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, THEN MINIMUM CLIMB OF 235 FT PER NM TO 1400.

RWY 9: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, THEN MINIMUM CLIMB OF 240 FT PER NM TO 1400.

RWY 12: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, THEN MINIMUM CLIMB OF 230 FT PER NM TO 1400.

RWY 26L, 26R, 27, 30: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520.

TAKEOFF OBSTACLES NOTES:

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:

RWY 8L, 8R: 1049 FT MSL BUILDING 254649.65N/0801106.99W.

RWY 9, 12: 1049 FT MSL BUILDING 254542.37N/0801135.45W.

MSA:**LOST COMMUNICATIONS PROCEDURES:****ADDITIONAL FLIGHT DATA:**

REFERENCE MAG/VAR: MIA 05W EPOCH YEAR 2015

DME/DME ASSESSMENT: SAT RNP 2.0

CHART: TOP ALTITUDE: 5000

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KMIA	MIAMI	FL

COMMUNICATIONS:

ATIS, TOWER, GROUND, CLNC DEL, DEP CON, CPDLC.

FIXES AND/OR NAVAIDS:

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
KLADA	TWO	KLADA2.KLADA	ONE	08/12/2021	19 May 2022

REMARKS:

ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION).
 REQUIREMENTS WORKSHEET AND NOISE SCREENING HAVE BEEN ACCOMPLISHED.
 CHART NOTE: SEE ADDITIONAL REQUIREMENTS ON AAUP.

FLIGHT INSPECTED BY

EDWARD W MESA

*Digitally signed by***ALLAN WILL**

Mar 01, 2022

OFFICE

FPO

DATE

02/24/2022

DEVELOPED BY

SHANE FOWLER

*Digitally signed by***SHANE FOWLER**

Jan 07, 2022

OFFICE

AJV-A423

DATE

12/23/2021

APPROVED BY

MARLON ROBINSON

*Digitally signed by***ALLAN WILL**

Mar 01, 2022

OFFICE

AJV-A420

DATE**TITLE**

MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMA, MIA ATC, AMGR.

CHANGES - REASONS:

1. DP ROUTE: REMOVED ALL AT OR BELOW 16000 AT KLADA REFERENCES - ATC REQUEST.
2. DP ROUTE: RWY 8L, 8R, 9 AND 12 TRACK TO KLADA CHANGED FROM 112.90 TO 115.05 - KLADA FIX LOCATION MOVED.
3. DP ROUTE: RWY 26L, 26R, 27 AND 30 TRACK TO KLADA CHANGED FROM 093.83 TO 097.91 - KLADA FIX LOCATION MOVED.
4. TRANSITIONS CHANGED AS FOLLOWS: BITAC - KLADA TO MEDLI COURSE/DISTANCE FROM 117.64/66.37 TO 116.90/65.99; JAGOR - KLADA TO UPACE COURSE/DISTANCE FROM 121.72/67.26 TO 121.00/66.83; RAJAY - KLADA TO ELQUE COURSE/DISTANCE FROM 110.21/57.82 TO 110.88/70.32 AND ELQUE TO RAJAY COURSE/DISTANCE FROM 101.98/26.72 TO 087.86/14.81 - KLADA AND ELQUE FIX LOCATIONS MOVED.
5. REMOVED AT OR ABOVE FL280 AT MEDLI AND UPACE - ATC REQUEST.
6. CHANGED NOTE "DME/DME/IRU OR GPS REQUIRED" TO "RNAV 1-DME/DME/IRU OR GPS" AND MOVED IT TO PBN REQUIREMENTS NOTES SECTION - IAW 8260.46H PARA 2-1-1F(6).
7. ADDED NOTE: RAJAY TRANSITION IS ONLY FOR TRAFFIC FILED AT OR ABOVE FL230 - ATC REQUEST.
8. CHANGED NOTES FROM "RAJAY TRANSITION, ELQUE TO RAJAY SEGMENT, GPS REQUIRED" TO "RAJAY TRANSITION, ELQUE TO RAJAY SEGMENT-GPS"; "BITAC TRANSITION, MEDLI TO BITAC SEGMENT, GPS REQUIRED" TO "BITAC TRANSITION, MEDLI TO BITAC SEGMENT-GPS"; AND "JAGOR TRANSITION, UPACE TO JAGOR SEGMENT, GPS REQUIRED" TO "JAGOR TRANSITION, UPACE TO JAGOR SEGMENT-GPS" - IAW 8260.46H.
9. CHANGED TOP ALTITUDE FROM "ASSIGNED BY ATC" TO "5000" - ATC REQUEST.
10. CHANGED "RADAR REQUIRED" TO "RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT" AND MOVED TO EQUIPMENT REQUIREMENT NOTES SECTION - IAW 8260.46H PARA 2-1-1F(5).
11. CHANGED "CHART: SEE ADDITIONAL REQUIREMENTS ON AAUP" TO "CHART NOTE: SEE ADDITIONAL REQUIREMENTS ON AAUP" - IAW 8260.19I.



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

DP NAME					NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
KLADA					TWO	KLADA2.KLADA	ONE	08/12/2021	19 May 2022
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW08L (AER)	254810.43N/0801805.55W	N	-	-	-	-			
-	254817.12N/0801523.59W	-	-	VI	087.38	2.44			CG 500 FT/NM TO 520, THEN MIN CG OF 215 TO 1400
JAMBA	254608.06N/0801055.19W	Y	FB	CF	117.99	4.57			
KBOLA	254402.34N/0800640.88W	Y	FB	TF	118.61	4.36			
KLADA	253550.12N/0794159.73W	Y	FB	TF	110.05	23.76			
RW08R (AER)	254802.52N/0801805.16W	N	-	-	-	-			
-	254810.08N/0801502.02W	-	-	VI	087.38	2.76			CG 500 FT/NM TO 520, THEN MIN CG OF 235 TO 1400
JAMBA	254608.06N/0801055.19W	Y	FB	CF	118.65	4.23			
KBOLA	254402.34N/0800640.88W	Y	FB	TF	118.61	4.36			
KLADA	253550.12N/0794159.73W	Y	FB	TF	110.05	23.76			
RW09 (AER)*	254710.56N/0801838.57W	N	-	-	-	-			*DISPL THLD (1358.0 FT)
-	254718.64N/0801523.09W	-	-	VI	087.37	2.94			CG 500 FT/NM TO 520, THEN MIN CG OF 240 TO 1400
JAMBA	254608.06N/0801055.19W	Y	FB	CF	106.24	4.20			
KBOLA	254402.34N/0800640.88W	Y	FB	TF	118.61	4.36			
KLADA	253550.12N/0794159.73W	Y	FB	TF	110.05	23.76			

QUALITY
26
CHECKED

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
KLADA		TWO		KLADA2.KLADA		ONE		08/12/2021	19 May 2022
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW12 (AER)	254757.43N/0801808.24W	N	-	-	-	-			
-	254641.54N/0801539.89W	-	-	VI	119.46	2.56			CG 500 FT/NM TO 520, THEN MIN CG OF 230 TO 1400
JAMBA	254608.06N/0801055.19W	Y	FB	CF	097.42	4.32			
KBOLA	254402.34N/0800640.88W	Y	FB	TF	118.61	4.36			
KLADA	253550.12N/0794159.73W	Y	FB	TF	110.05	23.76			
RW26L (AER)	254807.27N/0801610.33W	N	-	-	-	-			
-	254759.70N/0801913.10W	-	-	VI	267.39	2.75			CG 500 FT/NM TO 520
KSENO	254658.40N/0802325.68W	Y	FB	CF	254.98	3.93			
COOZY	254411.04N/0802638.54W	Y	FB	TF	226.23	4.02			
HAMAK	253947.34N/0802637.96W	Y	FB	TF	179.89	4.38			
LONZO	253559.29N/0801913.96W	Y	FB	TF	119.51	7.69			
CWEAD	253631.37N/0795637.76W	Y	FB	TF	088.42	20.44			
KLADA	253550.12N/0794159.73W	Y	FB	TF	092.91	13.25			
RW26R (AER)	254814.32N/0801631.55W	N	-	-	-	-			
-	254807.61N/0801913.44W	-	-	VI	267.39	2.44			CG 500 FT/NM TO 520
KSENO	254658.40N/0802325.68W	Y	FB	CF	253.12	3.96			
COOZY	254411.04N/0802638.54W	Y	FB	TF	226.23	4.02			
HAMAK	253947.34N/0802637.96W	Y	FB	TF	179.89	4.38			
LONZO	253559.29N/0801913.96W	Y	FB	TF	119.51	7.69			
CWEAD	253631.37N/0795637.76W	Y	FB	TF	088.42	20.44			
KLADA	253550.12N/0794159.73W	Y	FB	TF	092.91	13.25			



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KLADA		TWO		KLADA2.KLADA		ONE		08/12/2021	19 May 2022
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW27 (AER)*	254715.72N/0801634.02W	N	-	-	-	-			*DISPL THLD (261.0 FT)
520 MSL	-	-	-	VA	267.39	-	AT/ABOVE 520		CG 500 FT/NM TO 520
KSENO	254658.40N/0802325.68W	Y	FB	DF	-	-			
COOZY	254411.04N/0802638.54W	Y	FB	TF	226.23	4.02			
HAMAK	253947.34N/0802637.96W	Y	FB	TF	179.89	4.38			
LONZO	253559.29N/0801913.96W	Y	FB	TF	119.51	7.69			
CWEAD	253631.37N/0795637.76W	Y	FB	TF	088.42	20.44			
KLADA	253550.12N/0794159.73W	Y	FB	TF	092.91	13.25			
RW30 (AER)*	254716.43N/0801648.08W	N	-	-	-	-			*DISPL THLD (945.0 FT)
-	254827.91N/0801907.88W	-	-	VI	299.47	2.42			CG 500 FT/NM TO 520
KSENO	254658.40N/0802325.68W	Y	FB	CF	249.00	4.15			
COOZY	254411.04N/0802638.54W	Y	FB	TF	226.23	4.02			
HAMAK	253947.34N/0802637.96W	Y	FB	TF	179.89	4.38			
LONZO	253559.29N/0801913.96W	Y	FB	TF	119.51	7.69			
CWEAD	253631.37N/0795637.76W	Y	FB	TF	088.42	20.44			
KLADA	253550.12N/0794159.73W	Y	FB	TF	092.91	13.25			
TRANSITIONS									
KLADA	253550.12N/0794159.73W	Y	-	IF	-	-			KLADA2.BITAC
MEDLI	251053.40N/0783429.61W	Y	FB	TF	111.90	65.99			
BITAC	244508.60N/0773216.50W	Y	FB	TF	114.20	62.09			



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KLADA		TWO		KLADA2.KLADA		ONE		08/12/2021	19 May 2022
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
KLADA	253550.12N/0794159.73W	Y	-	IF	-	-			KLADA2.JAGOR
UPACE	250611.91N/0783549.62W	Y	FB	TF	116.00	66.83			
JAGOR	244031.80N/0774406.49W	Y	FB	TF	118.37	53.54			
KLADA	253550.12N/0794159.73W	Y	-	IF	-	-			KLADA2.RAJAY
ELQUE	251612.87N/0782722.59W	Y	FB	TF	105.88	70.32			
RAJAY	251802.78N/0781109.51W	Y	FB	TF	082.86	14.81			

