

RADIO FIX AND HOLDING DATA RECORD

NAME: BIMINI VOR/DME STATE: COUNTRY: BS ICAO REGION CODE: MY
 LATITUDE/LONGITUDE: 254215.00N/0791740.00W TYPE:

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	BIMINI	ZBV	VOR/DME	H						3000	18000

HOLDING: HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SE		WP	121.71	301.71			8	12000	16000	10	16
2	SE	ZBV	VOR/DME	119.71	299.71	R	1		3000	8000	4	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	254310.20N/0791755.60W	246	6C
2	200	AAO	254518.00N/0791648.00W	207	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S).

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.
 ASSIGNED FACILITY MAGVAR W04 (1985).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	FORT LAUDERDALE			KFLL	FORT LAUDERDALE	FL (US)
DP	FORT LAUDERDALE			KFXE	FORT LAUDERDALE	FL (US)
DP	MIAMI			KHWO	HOLLYWOOD	FL (US)
DP	MIAMI			KMIA	MIAMI	FL (US)
DP	MIAMI			KOPF	MIAMI	FL (US)
DP	MIAMI			KTMB	MIAMI	FL (US)
DP	FORT LAUDERDALE			KPMP	POMPANO BEACH	FL (US)
DP	PALM BEACH			KPBI	WEST PALM BEACH	FL (US)
EN ROUTE	A315					(QS)
EN ROUTE	A555					(QS)
EN ROUTE	B760					(QS)
EN ROUTE	BR22V					(QS)
EN ROUTE	BR55V					(QS)
EN ROUTE	BR57V					(QS)
EN ROUTE	BR69V					(QS)
IAP	ILS OR LOC RWY 12			KOPF	MIAMI	FL (US)
IAP	ILS OR LOC RWY 9L			KOPF	MIAMI	FL (US)
STAR	DEKAL		2	KFLL	FORT LAUDERDALE	FL (US)
STAR	GISSH			KFLL	FORT LAUDERDALE	FL (US)
STAR	WAVUN (RNAV)		1	KFLL	FORT LAUDERDALE	FL (US)
STAR	DEKAL		2	KFXE	FORT LAUDERDALE	FL (US)
STAR	GISSH			KFXE	FORT LAUDERDALE	FL (US)
STAR	WAVUN (RNAV)		1	KFXE	FORT LAUDERDALE	FL (US)
STAR	DEKAL		2	KHWO	HOLLYWOOD	FL (US)
STAR	GISSH			KHWO	HOLLYWOOD	FL (US)
STAR	WAVUN (RNAV)		1	KHWO	HOLLYWOOD	FL (US)
STAR	FLIPR (RNAV)			KHST	HOMESTEAD	FL (US)
STAR	FOWEE			KHST	HOMESTEAD	FL (US)
STAR	FLIPR (RNAV)			X51	HOMESTEAD	FL (US)
STAR	FOWEE			X51	HOMESTEAD	FL (US)
STAR	FLIPR (RNAV)			07FA	KEY LARGO	FL (US)
STAR	FOWEE			07FA	KEY LARGO	FL (US)
STAR	FLIPR (RNAV)			KMIA	MIAMI	FL (US)
STAR	FOWEE			KMIA	MIAMI	FL (US)
STAR	DEKAL		2	KOPF	MIAMI	FL (US)
STAR	GISSH			KOPF	MIAMI	FL (US)
STAR	WAVUN (RNAV)		1	KOPF	MIAMI	FL (US)
STAR	FLIPR (RNAV)			KTMB	MIAMI	FL (US)
STAR	FOWEE			KTMB	MIAMI	FL (US)
STAR	DEKAL		2	KPMP	POMPANO BEACH	FL (US)
STAR	GISSH			KPMP	POMPANO BEACH	FL (US)
STAR	WAVUN (RNAV)		1	KPMP	POMPANO BEACH	FL (US)

REQUIRED CHARTING: DP, STAR, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO



RECORD REVISION NUMBER: 14 DATE OF REVISION: 12/26/2024

REASON FOR REVISION:
1. FIX MAKE-UP: UPDATED FAC 1 TYPE FROM "VORTAC" TO "VOR/DME".
2. PATTERNS: UPDATED PATTERN 2 TYPE FROM "VORTAC" TO "VOR/DME".

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A433	NAME: TODD RUSSELL
APPROVED BY:	DATE: 12/26/2024	OFFICE: AJV-A433	NAME: ROBERT HAMILTON
	SIGNATURE:		<i>Digitally signed by</i> ROBERT G HAMILTON Sep 09, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: BORDO

STATE: OA

COUNTRY: US

ICAO REGION CODE: K

LATITUDE/LONGITUDE: 240000.19N/0782731.93W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	BIMINI	ZBV	VOR/DME	H	159.72	155.72	111.66	111.66		12000	18000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ZBV	VOR/DME	R-160	112	12000	18000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

INTERNATIONAL FIX - ZMA/HAVANA FIR BOUNDARY.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	B760					(QS)
EN ROUTE	Y259					(QS)
STAR	DEKAL	1		KFLL	FORT LAUDERDALE	FL (US)
STAR	OLAHS (RNAV)			KFLL	FORT LAUDERDALE	FL (US)
STAR	DEKAL	1		KFXE	FORT LAUDERDALE	FL (US)
STAR	OLAHS (RNAV)			KFXE	FORT LAUDERDALE	FL (US)
STAR	DEKAL	1		KHWO	HOLLYWOOD	FL (US)
STAR	DEKAL	1		KOPF	MIAMI	FL (US)
STAR	OLAHS (RNAV)			KOPF	MIAMI	FL (US)
STAR	DEKAL	1		KPMP	POMPANO BEACH	FL (US)
STAR	OLAHS (RNAV)			KPMP	POMPANO BEACH	FL (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 5

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

1. FIX MAKE-UP: UPDATED FAC 1 TYPE FROM "VORTAC" TO "VOR/DME".

10/10/2024: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 9/9/2024.

1. REQUIRED CHARTING: ADDED ENROUTE HIGH AND CONTROLLER HIGH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: TODD RUSSELL

APPROVED BY:

DATE: 11/21/2024

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

Digitally signed by
ROBERT G HAMILTON

Oct 17, 2024

QUALITY
8
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DEKAL

STATE: OA

COUNTRY: US

ICAO REGION CODE: K

LATITUDE/LONGITUDE: 255102.02N/0793752.89W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	FORT LAUDERDALE	FLL	VOR/DME	H	120.67	114.67	31.87	31.87		3000	18000
2	BIMINI	ZBV	VOR/DME	H	299.71	295.71	20.24	20.24		3000	18000

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SE	FLL	VOR/DME	120.67	300.67	L	4	3000	23000	6	21

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	SHIP	255102.02N/0793752.89W	295	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

FORT LAUDERDALE (FAC 1) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	BR22V	2				(US)
EN ROUTE	BR57V	2				(US)
STAR	DEKAL	1, 2	1	KFLL	FORT LAUDERDALE	FL (US)
STAR	DEKAL	1, 2	1	KFXE	FORT LAUDERDALE	FL (US)
STAR	DEKAL	1, 2	1	KHWO	HOLLYWOOD	FL (US)
STAR	DEKAL	1, 2	1	KOPF	MIAMI	FL (US)
STAR	DEKAL	1, 2	1	KPMP	POMPANO BEACH	FL (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

1. FIX MAKE-UP: UPDATED FAC 2 TYPE FROM "VORTAC" TO "VOR/DME".

10/10/2024: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 9/9/2024.

1. PATTERNS: DELETED PATTERN 2 AND ASSOCIATED CONTROLLING OBSTRUCTION.

2. HOLDING RESTRICTIONS: UPDATED FORMAT.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: TODD RUSSELL

APPROVED BY:

DATE: 11/21/2024

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

Digitally signed by
ROBERT G HAMILTON

Oct 17, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: MENDL

STATE:

COUNTRY: BS

ICAO REGION CODE: MY

LATITUDE/LONGITUDE: 242709.22N/0784042.13W

TYPE: INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	BIMINI	ZBV	VOR/DME	H	159.72	155.72	82.04	82.04		8000	18000
2	NASSAU	ZQA	VOR/DME	H	249.27	243.27	75.52	75.52		8000	18000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ZBV	VOR/DME	R-160	83	8000	14600
ZQA	VOR/DME	R-249	76	6000	14600

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	S	ZBV	VOR/DME	339.72	339.72	R		10	8000	12000	15	15

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	SHIP	242709.22N/0784042.13W	295	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	B760					(BS)
EN ROUTE	R628					(BS)
STAR	DEKAL	1, 2	1	KFLL	FORT LAUDERDALE	FL (US)
STAR	DEKAL	1, 2	1	KFXE	FORT LAUDERDALE	FL (US)
STAR	DEKAL	1, 2	1	KHWO	HOLLYWOOD	FL (US)
STAR	DEKAL	1, 2	1	KOPF	MIAMI	FL (US)
STAR	DEKAL	1, 2	1	KPMP	POMPAÑO BEACH	FL (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

1. FIX MAKE-UP: UPDATED FAC 1 TYPE FROM "VORTAC" TO "VOR/DME".
2. PATTERNS: UPDATED PATTERN 1 TYPE FROM "VORTAC" TO "VOR/DME".

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: TODD RUSSELL

APPROVED BY:

DATE: 12/26/2024

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

Digitally signed by

ROBERT G HAMILTON

Sep 09, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: RAJAY

STATE:

COUNTRY: BS

ICAO REGION CODE: MY

LATITUDE/LONGITUDE: 251802.78N/0781109.51W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	VIRGINIA KEY	VKZ	VOR/DME	DH	107.75	103.75	110.19	110.19	11000	45000
2	NASSAU	ZQA	VOR/DME	H	298.40	292.40	43.49	43.49	4000	18000
3	BIMINI	ZBV	VOR/DME	H	115.61	111.61	64.83	64.83	8000	18000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
VKZ	VOR/DME	R-108	111	11000	18100
ZQA	VOR/DME	R-298	43	4000	14600
ZBV	VOR/DME	R-116	65	8000	14600

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	SE	ZQA	VOR/DME	118.40	298.40	R	12	8000 12000	20 20

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	SHIP	251802.78N/0781109.51W	295	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S).

REMARKS:

VIRGINIA KEY (FAC 1) AND NASSAU (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SNAPR (RNAV)			KFLL	FORT LAUDERDALE	FL (US)
DP	GABOW (RNAV)			KFXE	FORT LAUDERDALE	FL (US)
DP	KLADA (RNAV)			KMIA	MIAMI	FL (US)
DP	HUSIL (RNAV)			KOPF	MIAMI	FL (US)
DP	GABOW (RNAV)			KPMP	POMPANO BEACH	FL (US)
EN ROUTE	A555	2, 3				(QS)
EN ROUTE	BR53V	1, 2				(QS)
EN ROUTE	BR55V	2, 3				(QS)
EN ROUTE	M328					(QS)
STAR	DEKAL	2, 3	1	KFLL	FORT LAUDERDALE	FL (US)
STAR	OLAHS (RNAV)			KFLL	FORT LAUDERDALE	FL (US)
STAR	DEKAL	2, 3	1	KFXE	FORT LAUDERDALE	FL (US)
STAR	OLAHS (RNAV)			KFXE	FORT LAUDERDALE	FL (US)
STAR	DEKAL	2, 3	1	KHWO	HOLLYWOOD	FL (US)
STAR	DEKAL	2, 3	1	KOPF	MIAMI	FL (US)
STAR	OLAHS (RNAV)			KOPF	MIAMI	FL (US)
STAR	DEKAL	2, 3	1	KPMP	POMPANO BEACH	FL (US)
STAR	OLAHS (RNAV)			KPMP	POMPANO BEACH	FL (US)

REQUIRED CHARTING: DP, STAR, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

1. FIX MAKE-UP: UPDATED FAC 3 TYPE FROM "VORTAC" TO "VOR/DME".

10/10/2024: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 9/9/2024.

1. FIX USE: DELETED Y587 FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: TODD RUSSELL

APPROVED BY:

DATE: 11/21/2024

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

Digitally signed by

ROBERT G HAMILTON

QUALITY
8
CHECKED