

# RADIO FIX AND HOLDING DATA RECORD

NAME: ADUBE

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 260044.71N/0805106.54W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
STAR

USE TITLE  
BHHIA (RNAV)

FAC PAT

AIRPORT IDENT  
KFL

CITY  
FORT LAUDERDALE

STATE  
FL (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/12/2021

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TARA MARTINELLI

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**DONALD H LANIER**

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZMA

ATC FACILITY: MIA APP CON

OTHER:

May 12, 2021

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: BEPAC

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 260900.59N/0800911.72W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY            | STATE   |
|----------|--------------|-----|-----|---------------|-----------------|---------|
| STAR     | BHHIA (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | CUUDA (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | FISEL (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | JINGL (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | OLAHS (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | TEEKY (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | FISEL (RNAV) |     |     | KFXE          | FORT LAUDERDALE | FL (US) |
| STAR     | JINGL (RNAV) |     |     | KFXE          | FORT LAUDERDALE | FL (US) |
| STAR     | FISEL (RNAV) |     |     | KHWO          | HOLLYWOOD       | FL (US) |
| STAR     | JINGL (RNAV) |     |     | KHWO          | HOLLYWOOD       | FL (US) |
| STAR     | CUUDA (RNAV) |     |     | KOPF          | MIAMI           | FL (US) |
| STAR     | FISEL (RNAV) |     |     | KOPF          | MIAMI           | FL (US) |
| STAR     | JINGL (RNAV) |     |     | KOPF          | MIAMI           | FL (US) |
| STAR     | FISEL (RNAV) |     |     | KPMP          | POMPANO BEACH   | FL (US) |
| STAR     | JINGL (RNAV) |     |     | 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: 4

DATE OF REVISION: 08/12/2021

**REASON FOR REVISION:**

1. FIX USE: REMOVED KFLL RNAV (RNP) Z RWY 28R.
2. FIX USE: ADDED STAR BHHIA (RNAV) AT KFLL.
3. FIX USE: ADDED STAR CUUDA (RNAV) AT KFLL AND KOPF.
4. FIX USE: ADDED STAR OLAHS (RNAV) AT KFLL.
5. FIX USE: ADDED STAR TEEKY (RNAV) AT KFLL.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TARA MARTINELLI

APPROVED BY:

DATE:

OFFICE: AVJ-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**DONALD H LANIER**

May 12, 2021

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZMA  
ATC FACILITY: MIA APP CON  
OTHER:

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: BHHIA

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 255232.49N/0805608.29W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE

USE TITLE

FAC

PAT

AIRPORT IDENT

CITY

STATE

STAR BHHIA (RNAV)  
STAR BHHIA (RNAV)  
STAR BHHIA (RNAV)  
STAR BHHIA (RNAV)

KFLL FORT LAUDERDALE  
KFXE FORT LAUDERDALE  
KOPF MIAMI  
KPMP POMPAÑO BEACH

FL (US)  
FL (US)  
FL (US)  
FL (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/12/2021

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TARA MARTINELLI

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

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May 12, 2021

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FPO: EST  
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ATC FACILITY: MIA APP CON  
OTHER:

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: CANOA STATE: OA COUNTRY: US ICAO REGION CODE: \*  
 LATITUDE/LONGITUDE: 240000.00N/0830300.00W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

| FAC | NAME      | IDENT | TYPE | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM FAC NM | MRA  | MAA   |
|-----|-----------|-------|------|-------|---------|----------|-----|------------------|------|-------|
| 1   | FISH HOOK | FIS   | NDB  | H     | 248.93  | 244.93   |     | 76.65            | 2000 | 45000 |

## FIX RESTRICTIONS:

INTERSECTION RECEPTION REQUIRES NAVIGATION EQUIPMENT OTHER THAN LF OR VHF.

## HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY            | STATE   |
|----------|--------------|-----|-----|---------------|-----------------|---------|
| DP       | MHITO (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| DP       | MHITO (RNAV) |     |     | KFXE          | FORT LAUDERDALE | FL (US) |
| DP       | MHITO (RNAV) |     |     | KHST          | HOMESTEAD       | FL (US) |
| DP       | MHITO (RNAV) |     |     | X51           | HOMESTEAD       | FL (US) |
| DP       | MHITO (RNAV) |     |     | 07FA          | KEY LARGO       | FL (US) |
| DP       | MHITO (RNAV) |     |     | KMIA          | MIAMI           | FL (US) |
| DP       | MHITO (RNAV) |     |     | KOPF          | MIAMI           | FL (US) |
| DP       | MHITO (RNAV) |     |     | KTMB          | MIAMI           | FL (US) |
| DP       | MHITO (RNAV) |     |     | KPMP          | POMPANO BEACH   | FL (US) |
| EN ROUTE | B646         | 1   |     |               |                 | (US)    |
| EN ROUTE | Y196         |     |     |               |                 | (US)    |
| STAR     | BHHIA (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | BHHIA (RNAV) |     |     | KFXE          | FORT LAUDERDALE | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KFXE          | FORT LAUDERDALE | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KHWO          | HOLLYWOOD       | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KHST          | HOMESTEAD       | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | KHST          | HOMESTEAD       | FL (US) |
| STAR     | CURSO (RNAV) |     |     | X51           | HOMESTEAD       | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | X51           | HOMESTEAD       | FL (US) |
| STAR     | CURSO (RNAV) |     |     | 07FA          | KEY LARGO       | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | 07FA          | KEY LARGO       | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KMIA          | MIAMI           | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | KMIA          | MIAMI           | FL (US) |
| STAR     | BHHIA (RNAV) |     |     | KOPF          | MIAMI           | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KOPF          | MIAMI           | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KTMB          | MIAMI           | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | KTMB          | MIAMI           | FL (US) |
| STAR     | BHHIA (RNAV) |     |     | KPMP          | POMPANO BEACH   | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KPMP          | POMPANO BEACH   | FL (US) |

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

COMPULSORY REPORTING POINT: LOW/HIGH

RECORD REVISION NUMBER: 4

DATE OF REVISION: 08/12/2021

## REASON FOR REVISION:

1. LAT/LONG CHANGED FROM 240001.59N/0830259.35W TO 240000.00N/0830300.00W - FIX MOVED 171.44 FT SOUTHWEST.
2. FIX MAKE-UP: FAC 1 MAG/TRUE BRG CHANGED FROM 248.94/244.94 TO 248.93/244.93 AND DIST FROM FAC CHANGED FROM 76.63 TO 76.65.
3. FIX USE: ADDED STAR BHHIA (RNAV) AT KFLL, KFXE, KOPF, KPMP.
4. FIX USE: ADDED STAR SNDBR (RNAV) AT KMIA, KHST, KTMB, KX51, K07FA.
5. FIX USE: ADDED DP MHITO (RNAV) AT KMIA, KFLL, KHST, KTMB, KX51, KOPF, K07FA, KFXE AND KPMP.
6. FIX USE: REMOVED AIRWAY UB646.
7. CHARTING: ADDED DP, CONTROLLER LOW AND ENROUTE LOW.
8. COMPULSORY REPORTING POINT: CHANGED FROM NO TO LOW/HIGH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TARA MARTINELLI

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**DONALD H LANIER**

DISTRIBUTION:

NFDC  
 FPO: EST  
 ARTCC: ZMA  
 ATC FACILITY: NQX APP CON  
 OTHER:

May 12, 2021



# RADIO FIX AND HOLDING DATA RECORD

NAME: CEMDI

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 255629.38N/0805343.17W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE

USE TITLE

FAC

PAT

AIRPORT IDENT

CITY

STATE

STAR

BHHIA (RNAV)

KFXE

FORT LAUDERDALE

FL (US)

STAR

BHHIA (RNAV)

KOPF

MIAMI

FL (US)

STAR

BHHIA (RNAV)

KPMP

POMPANO BEACH

FL (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/12/2021

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TARA MARTINELLI

APPROVED BY:

DATE:

OFFICE: AJV-A431

NAME: LONNIE EVERHART

SIGNATURE:

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**DONALD H LANIER**

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZMA

ATC FACILITY: MIA APP CON

OTHER:

May 12, 2021

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: FAMBA

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 260911.63N/0800552.06W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

**FIX USE:**

**USE TYPE**

STAR

STAR

**USE TITLE**

BHHIA (RNAV)

TEEKY (RNAV)

**FAC**

**PAT**

**AIRPORT IDENT**

KFLL

KFLL

**CITY**

FORT LAUDERDALE

FORT LAUDERDALE

**STATE**

FL (US)

FL (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/12/2021

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TARA MARTINELLI

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**DONALD H LANIER**

May 12, 2021

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZMA

ATC FACILITY: MIA APP CON

OTHER:

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: FILCH

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 244834.39N/0811229.86W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

## FIX USE:

### USE TYPE

STAR BHHIA (RNAV)  
STAR BHHIA (RNAV)  
STAR BHHIA (RNAV)  
STAR BHHIA (RNAV)

### FAC PAT

### AIRPORT IDENT

KFLL FORT LAUDERDALE  
KFXE FORT LAUDERDALE  
KOPF MIAMI  
KPMP POMPAÑO BEACH

### CITY

### STATE

FL (US)  
FL (US)  
FL (US)  
FL (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/12/2021

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TARA MARTINELLI

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

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**DONALD H LANIER**

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZMA  
ATC FACILITY: MIA APP CON  
OTHER:

May 12, 2021

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: FIPKO

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 260653.35N/0802729.92W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
STAR

USE TITLE  
BHHIA (RNAV)

FAC PAT

AIRPORT IDENT  
KFL

CITY  
FORT LAUDERDALE

STATE  
FL (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/12/2021

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TARA MARTINELLI

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

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**DONALD H LANIER**

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZMA  
ATC FACILITY: MIA APP CON  
OTHER:

May 12, 2021

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: GRACK

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 244217.66N/0814613.85W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

## PATTERNS:

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS<br>INBOUND | TURN<br>(L OR R) | LEG LENGTH<br>TIME DME | HOLDING<br>MIN | ALTITUDES<br>MAX | TEMPLATES<br>MIN | MAX |
|-----|-----|-------|------|-------------|----------------|------------------|------------------------|----------------|------------------|------------------|-----|
| 1   | SW  |       | WP   | 224.21      | 044.21         | R                | 12                     | 27000          | 45000            | 22               | 30  |

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY            | STATE   |
|----------|--------------|-----|-----|---------------|-----------------|---------|
| STAR     | BHHIA (RNAV) |     | 1   | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | BHHIA (RNAV) |     | 1   | KFXE          | FORT LAUDERDALE | FL (US) |
| STAR     | BHHIA (RNAV) |     | 1   | KMIA          | MIAMI           | FL (US) |
| STAR     | BHHIA (RNAV) |     | 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: ORIG

DATE OF REVISION: 08/12/2021

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TARA MARTINELLI

APPROVED BY:

DATE:

OFFICE: AJV-A431

NAME: LONNIE EVERHART

SIGNATURE:

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**DONALD H LANIER**

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZMA

ATC FACILITY: MIA APP CON

OTHER:

May 12, 2021

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: HOLID STATE: FL COUNTRY: US ICAO REGION CODE: K7  
 LATITUDE/LONGITUDE: 260442.92N/0803120.57W TYPE: WP, INT, DME

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

| FAC | NAME            | IDENT | TYPE    | CLASS | MAG BRG | TRUE BRG | DME   | DIST FROM FAC NM | MRA  | MAA   |
|-----|-----------------|-------|---------|-------|---------|----------|-------|------------------|------|-------|
| 1   | FORT LAUDERDALE | I-LHI | LOC/DME |       | 276.36  | 270.36   | 20.78 | 20.82            | 3000 | 6000  |
| 2   | DOLPHIN         | DHP   | VORTAC  | H     | 334.68  | 330.68   | 19.12 | 19.12            | 3000 | 17500 |
| 3   | FORT LAUDERDALE | FLL   | VOR/DME | H     | 276.91  | 270.91   |       | 19.23            | 3000 | 17500 |

## EXPANDED SERVICE VOLUME (ESV):

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| I-LHI     | LOC/DME  | R-276          | 21       | 3000         | 6000         |

HOLDING: HOLDING TYPE OF ACTION: MODIFY

## PATTERNS:

| PAT | DIR | IDENT | TYPE    | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG LENGTH TIME | HOLDING ALTITUDES DME | MIN  | MAX  | TEMPLATES MIN | MAX |
|-----|-----|-------|---------|-------------|-------------|---------------|-----------------|-----------------------|------|------|---------------|-----|
| 1   | W   |       | WP      | 276.22      | 096.22      | L             |                 | 4                     | 5000 | 5000 | 6             | 6   |
| 2   | W   | I-LHI | LOC/DME | 276.36      | 096.36      | L             | 1               |                       | 5000 | 5000 | 6             | 6   |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 200      | TOWER (12-128243) | 260844.57N/0803742.55W | 336       | 2C            |
| 2   | 200      | TOWER (12-128243) | 260844.57N/0803742.55W | 336       | 2C            |

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST  
 PAT 2 ATC REQUEST

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

## REMARKS:

FORT LAUDERDALE (FAC 1) AND DOLPHIN (FAC 2) AND FORT LAUDERDALE (FAC 3) USED TO ESTABLISH FIX COORDINATES.  
 I-LHI DME COORDINATES: 260440.18N-0800815.67W.  
 PERCIPITOUS TERRAIN EVALUTAION COMPLETED

## FIX USE:

| USE TYPE | USE TITLE            | FAC     | PAT | AIRPORT IDENT | CITY            | STATE   |
|----------|----------------------|---------|-----|---------------|-----------------|---------|
| EN ROUTE | V157                 | 1, 2, 3 |     |               |                 | (US)    |
| EN ROUTE | V511                 | 1, 2, 3 |     |               |                 | (US)    |
| EN ROUTE | V599                 | 1, 2, 3 |     |               |                 | (US)    |
| IAP      | ILS OR LOC RWY 10L   | 1, 2    | 2   | KFLL          | FORT LAUDERDALE | FL (US) |
| IAP      | RNAV (GPS) Z RWY 10L |         | 1   | KFLL          | FORT LAUDERDALE | FL (US) |
| IAP      | RNAV (RNP) Y RWY 10L |         |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | BHHIA (RNAV)         |         | 1   | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | CURSO (RNAV)         |         |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | CUUDA (RNAV)         |         |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | JINGL (RNAV)         |         |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | TEEKY (RNAV)         |         |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | JINGL (RNAV)         |         |     | KFXE          | FORT LAUDERDALE | FL (US) |
| STAR     | JINGL (RNAV)         |         |     | KHWO          | HOLLYWOOD       | FL (US) |
| STAR     | JINGL (RNAV)         |         |     | KOPF          | MIAMI           | FL (US) |
| STAR     | JINGL (RNAV)         |         |     | KPMP          | POMPANO BEACH   | FL (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17

DATE OF REVISION: 08/12/2021

## REASON FOR REVISION:

- ADDED HOLDING PATTERNS 1 AND 2 AND ALL ASSOCIATED NOTES.
- FIX MAKE-UP: CHANGED FAC 1 MAG/TRUE BRG FROM 276.37/270.37 TO 276.36/270.36.
- FIX USE: ADDED STAR BHHIA (RNAV) AND TEEKY (RNAV) AT KFLL.
- FIX USE: ADDED IAP RNAV (GPS) RWY 10L AT KFLL.
- FIX USE: REMOVED DP FT LAUDERDALE AT KFLL, KFXE, KPMP.
- CHARTING: ADDED CONTROLLER HIGH AND ENROUTE HIGH, REMOVED DP.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TARA MARTINELLI

QUALITY  
14  
CHECKED

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by***DONALD H LANIER**

May 12, 2021

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZMA

ATC FACILITY: MIA APP CON

OTHER:

QUALITY  
45  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** HULKY **STATE:** FL **COUNTRY:** US **ICAO REGION CODE:** K7

**LATITUDE/LONGITUDE:** 253714.12N/0805724.85W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** ESTABLISH

**HOLDING:** **HOLDING TYPE OF ACTION:** ESTABLISH

| PATTERNS: |     | IDENT | TYPE | RAD/CRS/BRG | CRS<br>INBOUND | TURN<br>(L OR R) | LEG LENGTH<br>TIME DME | HOLDING<br>MIN | ALTITUDES<br>MIN MAX | TEMPLATES |     |
|-----------|-----|-------|------|-------------|----------------|------------------|------------------------|----------------|----------------------|-----------|-----|
| PAT       | DIR |       |      |             |                |                  |                        |                |                      | MIN       | MAX |
| 1         | SW  |       | WP   | 225.72      | 045.72         | R                | 10                     | 7000           | 8000                 | 15        | 15  |

| CONTROLLING OBSTRUCTIONS: |          |             | COORDINATES            | ELEVATION | ACCURACY CODE |
|---------------------------|----------|-------------|------------------------|-----------|---------------|
| PAT                       | AIRSPEED | OBSTRUCTION |                        |           |               |
| 1                         | 230      | AAO         | 353500.00N/0805700.00W | 230       | 4E            |

**HOLDING RESTRICTIONS:**  
HOLDING LIMITED TO ESTABLISHED PATTERN

**REMARKS:**  
PRECIPITOUS TERRAIN EVALUATION COMPLETED

| FIX USE: | USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY            | STATE   |
|----------|----------|--------------|-----|-----|---------------|-----------------|---------|
| STAR     |          | BHHIA (RNAV) |     | 1   | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     |          | BHHIA (RNAV) |     | 1   | KFXE          | FORT LAUDERDALE | FL (US) |
| STAR     |          | BHHIA (RNAV) |     | 1   | KOPF          | MIAMI           | FL (US) |
| STAR     |          | BHHIA (RNAV) |     | 1   | KPMP          | POMPANO BEACH   | FL (US) |

**REQUIRED CHARTING:** STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG **DATE OF REVISION:** 08/12/2021

**INITIATED BY:** **DATE:** **ORGANIZATION:** **NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A431 **NAME:** TARA MARTINELLI

**APPROVED BY:** **DATE:** **OFFICE:** AJV-A430 **NAME:** LONNIE EVERHART

**SIGNATURE:** *Digitally signed by*  
**DONALD H LANIER**

**DISTRIBUTION:** NFDC  
FPO: EST  
ARTCC: ZMA  
ATC FACILITY: MIA APP CON  
OTHER:

May 12, 2021

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: IKBIX

STATE: OA

COUNTRY: US

ICAO REGION CODE: K

LATITUDE/LONGITUDE: 240000.00N/0811400.00W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY            | STATE   |
|----------|--------------|-----|-----|---------------|-----------------|---------|
| EN ROUTE | Y183         |     |     |               |                 | (US)    |
| STAR     | BHHIA (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | BHHIA (RNAV) |     |     | KFXE          | FORT LAUDERDALE | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | KHST          | HOMESTEAD       | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | X51           | HOMESTEAD       | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | 07FA          | KEY LARGO       | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | KMIA          | MIAMI           | FL (US) |
| STAR     | BHHIA (RNAV) |     |     | KOPF          | MIAMI           | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | KTMB          | MIAMI           | FL (US) |
| STAR     | BHHIA (RNAV) |     |     | KPMP          | POMPAÑO BEACH   | FL (US) |

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

COMPULSORY REPORTING POINT: LOW/HIGH

RECORD REVISION NUMBER: 1

DATE OF REVISION: 08/12/2021

## REASON FOR REVISION:

ADDED BHHIA STAR, SNDBR STAR, AND Y183 TO FIX USE.  
REMOVED CONTROLLER, ADDED CONTROLLER LOW/HIGH, STAR TO REQUIRED CHARTING.  
REMOVED ATC STANDALONE AND MIAMI OCEANIC BOUNDARY WP FROM REMARKS.

6/29/21. THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 5/12/21.

1. CHANGED REVISION NUMBER FROM ORIGINAL TO REVISION 1.
2. ADDED LIST OF CHANGES TO REFLECT PREVIOUS REVISION.
3. CHANGED FIX TYPE ACTION FROM ESTABLISH TO NO CHANGE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TARA MARTINELLI

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

*Digitally signed by*

SIGNATURE: **ALLAN WILL**

Jul 01, 2021

QUALITY  
49  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: KERRA

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 254735.95N/0805633.04W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

## FIX USE:

### USE TYPE

STAR BHHIA (RNAV)  
STAR BHHIA (RNAV)  
STAR BHHIA (RNAV)  
STAR BHHIA (RNAV)

### FAC PAT

### AIRPORT IDENT

KFLL FORT LAUDERDALE  
KFXE FORT LAUDERDALE  
KOPF MIAMI  
KPMP POMPAÑO BEACH

### CITY

### STATE

FL (US)  
FL (US)  
FL (US)  
FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/12/2021

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TARA MARTINELLI

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*  
**DONALD H LANIER**

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZMA  
ATC FACILITY: MIA APP CON  
OTHER:

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: LULLS

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 242851.84N/0815738.55W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY            | STATE   |
|----------|--------------|-----|-----|---------------|-----------------|---------|
| DP       | GLADZ (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| DP       | GLADZ (RNAV) |     |     | KMIA          | MIAMI           | FL (US) |
| DP       | GLADZ (RNAV) |     |     | KOPF          | MIAMI           | FL (US) |
| EN ROUTE | B646         |     |     |               |                 | (US)    |
| EN ROUTE | Y196         |     |     |               |                 | (US)    |
| EN ROUTE | Y262         |     |     |               |                 | (US)    |
| STAR     | BHHIA (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | BHHIA (RNAV) |     |     | KFXE          | FORT LAUDERDALE | FL (US) |
| STAR     | BHHIA (RNAV) |     |     | KOPF          | MIAMI           | FL (US) |
| STAR     | BHHIA (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: 1

DATE OF REVISION: 08/12/2021

## REASON FOR REVISION:

ADDED BHHIA STAR, GLADZ DP, AND B646 TO FIX USE.

ADDED CONTROLLER LOW/HIGH, STAR, DP TO REQUIRED CHARTING AND REMOVED WESTERN ATLANTIC ROUTE.

6/29/21. THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 5/12/21.

1. CHANGED REVISION NUMBER FROM ORIGINAL TO REVISION 1.
2. ADDED LIST OF CHANGES TO REFLECT PREVIOUS REVISION.
3. CHANGED FIX TYPE ACTION FROM ESTABLISH TO NO CHANGE.
4. RETURNED Y196, Y262 TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TARA MARTINELLI

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

Jul 01, 2021

QUALITY  
49  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: MAXIM STATE: OA COUNTRY: US ICAO REGION CODE: \*  
 LATITUDE/LONGITUDE: 240000.00N/0823107.73W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

| FAC | NAME      | IDENT | TYPE | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM FAC NM | MRA  | MAA   |
|-----|-----------|-------|------|-------|---------|----------|-----|------------------|------|-------|
| 1   | FISH HOOK | FIS   | NDB  | H     | 234.91  | 230.91   |     | 51.84            | 3000 | 45000 |

## FIX RESTRICTIONS:

INTERSECTION RECEPTION REQUIRES NAVIGATION EQUIPMENT OTHER THAN LF OR VHF.

## HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY            | STATE   |
|----------|--------------|-----|-----|---------------|-----------------|---------|
| DP       | MHITO (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| DP       | MHITO (RNAV) |     |     | KFXE          | FORT LAUDERDALE | FL (US) |
| DP       | MHITO (RNAV) |     |     | KHST          | HOMESTEAD       | FL (US) |
| DP       | MHITO (RNAV) |     |     | X51           | HOMESTEAD       | FL (US) |
| DP       | MHITO (RNAV) |     |     | 07FA          | KEY LARGO       | FL (US) |
| DP       | MHITO (RNAV) |     |     | KMIA          | MIAMI           | FL (US) |
| DP       | MHITO (RNAV) |     |     | KOPF          | MIAMI           | FL (US) |
| DP       | MHITO (RNAV) |     |     | KTMB          | MIAMI           | FL (US) |
| DP       | MHITO (RNAV) |     |     | KPMP          | POMPANO BEACH   | FL (US) |
| EN ROUTE | G765         | 1   |     |               |                 | (US)    |
| EN ROUTE | Y262         |     |     |               |                 | (US)    |
| STAR     | BHHIA (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | BHHIA (RNAV) |     |     | KFXE          | FORT LAUDERDALE | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KFXE          | FORT LAUDERDALE | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KHWO          | HOLLYWOOD       | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KHST          | HOMESTEAD       | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | KHST          | HOMESTEAD       | FL (US) |
| STAR     | CURSO (RNAV) |     |     | X51           | HOMESTEAD       | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | X51           | HOMESTEAD       | FL (US) |
| STAR     | CURSO (RNAV) |     |     | 07FA          | KEY LARGO       | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | 07FA          | KEY LARGO       | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KMIA          | MIAMI           | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | KMIA          | MIAMI           | FL (US) |
| STAR     | BHHIA (RNAV) |     |     | KOPF          | MIAMI           | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KOPF          | MIAMI           | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KTMB          | MIAMI           | FL (US) |
| STAR     | SNDBR (RNAV) |     |     | KTMB          | MIAMI           | FL (US) |
| STAR     | BHHIA (RNAV) |     |     | KPMP          | POMPANO BEACH   | FL (US) |
| STAR     | CURSO (RNAV) |     |     | KPMP          | POMPANO BEACH   | FL (US) |

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

COMPULSORY REPORTING POINT: HIGH

RECORD REVISION NUMBER: 4

DATE OF REVISION: 08/12/2021

## REASON FOR REVISION:

1. FIX USE: ADDED STAR BHHIA (RNAV) AT KFLL, KFXE, KOPF, KPMP.
2. FIX USE: ADDED STAR SNDBR (RNAV) AT KMIA, KHST, KTMB, KX51, K07FA.
3. FIX USE: ADDED DP MHITO (RNAV) AT KMIA, KFLL, KHST, KTMB, KX51, KOPF, K07FA, KFXE AND KPMP.
4. FIX USE: REMOVED UG765.
5. CHARTING: ADDED DP, CONTROLLER LOW AND ENROUTE LOW.
6. COMPULSORY REPORTING POINT: CHANGED FROM NO TO HIGH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TARA MARTINELLI

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**DONALD H LANIER**

DISTRIBUTION:

NFDC  
 FPO: EST  
 ARTCC: ZMA  
 ATC FACILITY: NQX APP CON  
 OTHER:

May 12, 2021

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** PAMPR **STATE:** FL **COUNTRY:** US **ICAO REGION CODE:** K7

**LATITUDE/LONGITUDE:** 245152.38N/0810707.84W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** ESTABLISH

**HOLDING:** **HOLDING TYPE OF ACTION:** ESTABLISH

**PATTERNS:**

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS<br>INBOUND | TURN<br>(L OR R) | LEG LENGTH<br>TIME DME | HOLDING ALTITUDES<br>MIN MAX | TEMPLATES<br>MIN MAX |
|-----|-----|-------|------|-------------|----------------|------------------|------------------------|------------------------------|----------------------|
| 1   | SW  |       | WP   | 240.48      | 060.48         | L                | 10                     | 17000 23000                  | 17 20                |
| 2   | SW  |       | WP   | 235.48      | 055.61         | L                | 10                     | 18000 45000                  | 17 30                |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION                  | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|------------------------------|------------------------|-----------|---------------|
| 1   | 265      | TETHERED_BALLOON (12-001373) | 244205.00N/0813031.00W | 14000     | 4D            |

**REASON FOR NONSTANDARD HOLDING:**

PAT 2 ATC REQUEST  
PAT 1 ATC REQUEST

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED

**FIX USE:**

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY            | STATE   |
|----------|--------------|-----|-----|---------------|-----------------|---------|
| STAR     | BHHIA (RNAV) |     | 1   | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | BHHIA (RNAV) |     | 1   | KFXE          | FORT LAUDERDALE | FL (US) |
| STAR     | SNDBR (RNAV) |     | 2   | KHST          | HOMESTEAD       | FL (US) |
| STAR     | SNDBR (RNAV) |     | 2   | KX51          | HOMESTEAD       | FL (US) |
| STAR     | SNDBR (RNAV) |     | 2   | K07FA         | KEY LARGO       | FL (US) |
| STAR     | SNDBR (RNAV) |     | 2   | KMIA          | MIAMI           | FL (US) |
| STAR     | BHHIA (RNAV) |     | 1   | KOPF          | MIAMI           | FL (US) |
| STAR     | SNDBR (RNAV) |     | 2   | KTMB          | MIAMI           | FL (US) |
| STAR     | BHHIA (RNAV) |     | 1   | KPMP          | POMPANO BEACH   | FL (US) |

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG **DATE OF REVISION:** 08/12/2021

**INITIATED BY:** **DATE:** **ORGANIZATION:** **NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A431 **NAME:** TARA MARTINELLI

**APPROVED BY:** **DATE:** **OFFICE:** AJV-A430 **NAME:** LONNIE EVERHART

**SIGNATURE:** *Digitally signed by*  
**DONALD H LANIER**

**DISTRIBUTION:** NFDC  
FPO: EST  
ARTCC: ZMA  
ATC FACILITY: MIA APP CON  
OTHER:

May 12, 2021

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: PEAKY

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 243523.72N/0810853.91W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

**PATTERNS:**

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS<br>INBOUND | TURN<br>(L OR R) | LEG<br>TIME | LENGTH<br>DME | HOLDING<br>MIN | ALTITUDES<br>MAX | TEMPLATES<br>MIN | MAX |
|-----|-----|-------|------|-------------|----------------|------------------|-------------|---------------|----------------|------------------|------------------|-----|
| 1   | S   |       | WP   | 190.59      | 010.59         | L                |             | 10            | 18000          | 45000            | 17               | 30  |

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 ATC REQUEST

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN

**FIX USE:**

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY            | STATE   |
|----------|--------------|-----|-----|---------------|-----------------|---------|
| EN ROUTE | Q118         |     |     |               |                 | (US)    |
| EN ROUTE | Q87          |     |     |               |                 | (US)    |
| EN ROUTE | Y183         |     |     |               |                 | (US)    |
| STAR     | BHHIA (RNAV) |     |     | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     | BHHIA (RNAV) |     |     | KFXE          | FORT LAUDERDALE | FL (US) |
| STAR     | SNDBR (RNAV) |     | 1   | KHST          | HOMESTEAD       | FL (US) |
| STAR     | SNDBR (RNAV) |     | 1   | KX51          | HOMESTEAD       | FL (US) |
| STAR     | SNDBR (RNAV) |     | 1   | K07FA         | KEY LARGO       | FL (US) |
| STAR     | SNDBR (RNAV) |     | 1   | KMIA          | MIAMI           | FL (US) |
| STAR     | BHHIA (RNAV) |     |     | KOPF          | MIAMI           | FL (US) |
| STAR     | SNDBR (RNAV) |     | 1   | KTMB          | MIAMI           | FL (US) |
| STAR     | BHHIA (RNAV) |     |     | 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:** 2

**DATE OF REVISION:** 08/12/2021

**REASON FOR REVISION:**

1. REMOVED AIRSPACE DOCKET NUMBER 18-ASO-5.
2. PATTERNS: ADDED PAT 1 AND ALL ASSOCIATED NOTES.
3. FIX USE: ADDED STAR BHHIA (RNAV) AT KFLL, KFXE, KOPF, KPMP.
4. FIX USE: ADDED STAR SNDBR (RNAV) AT KMIA, KHST, KTMB, KX51, K07FA.
5. CHARTING: ADDED STAR AND CONTROLLER LOW.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A431

**NAME:** TARA MARTINELLI

**APPROVED BY:**

**DATE:**

**OFFICE:** AJV-A430  
*Digitally signed by*

**NAME:** LONNIE EVERHART

**SIGNATURE:**

**DONALD H LANIER**

May 12, 2021

**DISTRIBUTION:**

NFDC  
FPO: EST  
ARTCC: ZMA  
ATC FACILITY: MIA APP CON, NQX APP CON  
OTHER:

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: PYREX STATE: FL COUNTRY: US ICAO REGION CODE: K7  
 LATITUDE/LONGITUDE: 251322.29N/0811918.38W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: ESTABLISH

HOLDING: HOLDING TYPE OF ACTION: ESTABLISH

| PATTERNS: |     | IDENT | TYPE | RAD/CRS/BRG | CRS<br>INBOUND | TURN<br>(L OR R) | LEG LENGTH<br>TIME DME | HOLDING ALTITUDES<br>MIN MAX | TEMPLATES |       |
|-----------|-----|-------|------|-------------|----------------|------------------|------------------------|------------------------------|-----------|-------|
| PAT       | DIR |       |      |             |                |                  |                        |                              | MIN       | MAX   |
| 1         | SW  |       | WP   | 224.21      | 044.71         | R                | 10                     | 15000                        | 20000     | 16 18 |

| CONTROLLING OBSTRUCTIONS: |          |             | COORDINATES            | ELEVATION | ACCURACY CODE |
|---------------------------|----------|-------------|------------------------|-----------|---------------|
| PAT                       | AIRSPEED | OBSTRUCTION |                        |           |               |
| 1                         | 265      | AAO         | 251424.00N/0810851.00W | 207       | 4E            |

HOLDING RESTRICTIONS:  
 HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED

| FIX USE: | USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY            | STATE   |
|----------|----------|--------------|-----|-----|---------------|-----------------|---------|
| STAR     |          | BHHIA (RNAV) |     | 1   | KFLL          | FORT LAUDERDALE | FL (US) |
| STAR     |          | BHHIA (RNAV) |     | 1   | KFXE          | FORT LAUDERDALE | FL (US) |
| STAR     |          | SNDBR (RNAV) |     | 1   | KHST          | HOMESTEAD       | FL (US) |
| STAR     |          | SNDBR (RNAV) |     | 1   | KX51          | HOMESTEAD       | FL (US) |
| STAR     |          | SNDBR (RNAV) |     | 1   | K07FA         | KEY LARGO       | FL (US) |
| STAR     |          | SNDBR (RNAV) |     | 1   | KMIA          | MIAMI           | FL (US) |
| STAR     |          | BHHIA (RNAV) |     | 1   | KOPF          | MIAMI           | FL (US) |
| STAR     |          | SNDBR (RNAV) |     | 1   | KTMB          | MIAMI           | FL (US) |
| STAR     |          | BHHIA (RNAV) |     | 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: ORIG DATE OF REVISION: 08/12/2021

|                                   |       |                  |                       |
|-----------------------------------|-------|------------------|-----------------------|
| INITIATED BY:                     | DATE: | ORGANIZATION:    | NAME:                 |
| OFFICE OF PRIMARY RESPONSIBILITY: |       | AJV-A431         | NAME: TARA MARTINELLI |
| APPROVED BY:                      | DATE: | OFFICE: AJV-A430 | NAME: LONNIE EVERHART |

SIGNATURE: *Digitally signed by*  
**DONALD H LANIER**

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