

RADIO FIX AND HOLDING DATA RECORD

NAME: ATONE STATE: FL COUNTRY: US ICAO REGION CODE: K7
 LATITUDE/LONGITUDE: 262312.14N/0802123.68W 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	MRA FEET	MAA
1	VIRGINIA KEY	VKZ	VOR/DME	H	348.00	344.00	39.51	39.51	2100	17500

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

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	N		WP	349.00	169.00	L	4	2100 6000	4 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (12-020250)	262121.60N/0801749.31W	338	5D

REASON FOR NONSTANDARD HOLDING:

PAT 1 AIR TRAFFIC

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ARKES (RNAV)			KFLL	FORT LAUDERDALE	FL (US)
DP	FORT LAUDERDALE	1		KFLL	FORT LAUDERDALE	FL (US)
DP	FORT LAUDERDALE	1		KFXE	FORT LAUDERDALE	FL (US)
DP	FORT LAUDERDALE	1		KPMP	POMPANO BEACH	FL (US)
EN ROUTE	V159	1				(US)
IAP	RNAV (GPS) RWY 05			KBCT	BOCA RATON	FL (US)
IAP	RNAV (GPS) Y RWY 23		1	KBCT	BOCA RATON	FL (US)
IAP	RNAV (RNP) Z RWY 23		1	KBCT	BOCA RATON	FL (US)
IAP	RNAV (GPS) RWY 15			KPMP	POMPANO BEACH	FL (US)
IAP	RNAV (GPS) RWY 33		1	KPMP	POMPANO BEACH	FL (US)
STAR	CURSO (RNAV)			KFLL	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	CURSO (RNAV)			KX51	HOMESTEAD	FL (US)
STAR	CURSO (RNAV)			K07FA	KEY LARGO	FL (US)
STAR	CURSO (RNAV)			KMIA	MIAMI	FL (US)
STAR	CURSO (RNAV)			KOPF	MIAMI	FL (US)
STAR	CURSO (RNAV)			KTMB	MIAMI	FL (US)
STAR	CURSO (RNAV)			KPMP	POMPANO BEACH	FL (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 DATE OF REVISION: 05/24/2018

REASON FOR REVISION:

1. UPDATED FIX USE.
2. INCREASED HOLDING PAT 1 FROM 2000 TO 2100.

DEVELOPED BY: DATE: 12/18/2017 OFFICE: AJV-5422 NAME: JIMMY HUGHES

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: JULIE MORGAN

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: HIVUR

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 262615.64N/0800236.36W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

IPDS BUILD COORDINATES: 262615.640N/0800236.360W

FIX USE:

USE TYPE

IAP

IAP

USE TITLE

RNAV (GPS) Y RWY 23

RNAV (RNP) Z RWY 23

FAC

PAT

AIRPORT IDENT

KBCT

KBCT

CITY

BOCA RATON

BOCA RATON

STATE

FL (US)

FL (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 07/24/2014

REASON FOR REVISION:

FIX RELOCATED 54.85FT NE.

FIX USE UPDATED.

DEVELOPED BY:

DATE: 07/31/2012

OFFICE: AJV-352

NAME: HOWARD HAWKINS

APPROVED BY:

DATE: 07/24/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZMA

ATC FACILITY: PBI APP CON

OTHER: BCT TOWER

RADIO FIX AND HOLDING DATA RECORD

NAME: KISEC

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 263039.61N/0795749.29W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	NE		WP	049.40	229.40	R	4	2000	6000	4	6
2	SE		WP	124.85	304.85	L	4	2300	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	SHIP MAST	262849.73N/0800036.44W	207	2C
2	200	AAO	263008.80N/0800313.15W	229	2C

REASON FOR NONSTANDARD HOLDING:

PAT 2 ATC REQUEST.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 5		1	KBCT	BOCA RATON	FL (US)
IAP	RNAV (GPS) Y RWY 23		1	KBCT	BOCA RATON	FL (US)
IAP	RNAV (GPS) RWY 34		2	KLNA	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 02/01/2018

REASON FOR REVISION:

1. UPDATED FIX USE: KLNA RNAV (GPS) RWY 33 CHANGED TO KLNA RNAV (GPS) RWY 34.
2. UPDATED HOLDING PATTERN 2 COURSE INBOUND FROM 303.85 TO 304.85 DUE TO KLNA AIRPORT MAG VAR CHANGE.
3. UPDATED CONTROLLING OBSTACLE FOR PAT 2: CHANGED SHIP MAST TO AAO, CHANGED ELEVATION FROM 207 TO 229 AND CHANGED COORDS FROM 262849.73N/0800036.44W TO 263008.80N/0800313.15W.

DEVELOPED BY: DATE: 07/06/2017

OFFICE: AJV-5433

NAME: DAVID TEFFETELLER (ANDREA CHANEY)

APPROVED BY: DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZMA
ATC FACILITY: PBI APP CON
OTHER: BCT ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: PALM BEACH VORTAC

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 264048.20N/0800511.36W

TYPE:

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 FEET	MRA	MAA
1	PALM BEACH	PBI	VORTAC	H						45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

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	E	PBI	VORTAC	090.00	270.00	R	1	2000 10000	4 9
2	N	PBI	VORTAC	006.57	186.57	R	1	2000 10000	4 9
3	N	PBI	VORTAC	343.24	163.24	L	1-1 1/2	13000 45000	10 29
4	N	WP	WP	345.19	165.19	L	10	5000 14000	15 15

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (12-004716)	263521.24N/0801242.76W	1314	5D
1	200	TOWER (12-027176)	264431.00N/0800729.00W	475	2C
2	200	TOWER (12-002502)	264759.72N/0800431.74W	541	1A
3	230	TOWER (12-002502)	264759.72N/0800431.74W	541	1A
4	200	TOWER (12-003439)	270131.99N/0801041.87W	1038	1A

REASON FOR NONSTANDARD HOLDING:

PAT 3 AIR TRAFFIC
PAT 4 AIR TRAFFIC

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER (PAT 3 FL300) (UNPLAN FL180) OVER W-497.

REMARKS:

PAT 1 HOLDING ATC REQUEST.
PAT 4 10 MILE LEG ATC REQUEST, MIN/MAX TEMPLATES SET TO 15 FOR HOLDING PATTERN LEG LENGTH.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAG VAR: 3 DEGREES WEST.

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	MELBOURNE			KMLB	MELBOURNE	FL (US)
DP	MIAMI			KMIA	MIAMI	FL (US)
DP	POTTR			KMIA	MIAMI	FL (US)
DP	MIAMI			KOPF	MIAMI	FL (US)
DP	MIAMI			KTMB	MIAMI	FL (US)
DP	CITRUS			KMCO	ORLANDO	FL (US)
DP	ORLANDO			KMCO	ORLANDO	FL (US)
DP	SANFORD			KSFB	ORLANDO	FL (US)
DP	FORT LAUDERDALE			KPMP	POMPANO BEACH	FL (US)
DP	PALM BEACH			KPBI	WEST PALM BEACH	FL (US)
EN ROUTE	A699					(US)
EN ROUTE	BR21V					(US)
EN ROUTE	BR54V					(US)
EN ROUTE	BR55V					(US)
EN ROUTE	BR63V					(US)
EN ROUTE	BR69V					(US)
EN ROUTE	J79					(US)
EN ROUTE	V3					(US)
EN ROUTE	V492					(US)
EN ROUTE	V531					(US)
EN ROUTE	V537					(US)
IAP	RNAV (GPS) Y RWY 23			KBCT	BOCA RATON	FL (US)
IAP	VOR-A		2	KBCT	BOCA RATON	FL (US)
IAP	ILS OR LOC RWY 9			KFXE	FORT LAUDERDALE	FL (US)
IAP	RNAV (GPS) RWY 30			KSUA	STUART	FL (US)
IAP	ILS OR LOC RWY 9R			KF45	WEST PALM BEACH	FL (US)
IAP	ILS OR LOC RWY 10L			KPBI	WEST PALM BEACH	FL (US)
IAP	ILS OR LOC RWY 28R			KPBI	WEST PALM BEACH	FL (US)
IAP	RNAV (GPS) Y RWY 10L			KPBI	WEST PALM BEACH	FL (US)
IAP	RNAV (GPS) Y RWY 14			KPBI	WEST PALM BEACH	FL (US)
IAP	RNAV (GPS) Y RWY 28R			KPBI	WEST PALM BEACH	FL (US)
IAP	RNAV (GPS) Y RWY 32			KPBI	WEST PALM BEACH	FL (US)
SPECIAL IAP	ILS OR LOC/DME RWY 9			K06FA	JUPITER	FL (US)

STAR	GOOFY		KX04	APOKA	FL (US)
STAR	CAYSL (RNAV)		KBCT	BOCA RATON	FL (US)
STAR	PRRIE (RNAV)		KBCT	BOCA RATON	FL (US)
STAR	TUXXI		KBCT	BOCA RATON	FL (US)
STAR	BLUFI		KFLL	FORT LAUDERDALE	FL (US)
STAR	BLUFI		KFXE	FORT LAUDERDALE	FL (US)
STAR	BLUFI		KHWO	HOLLYWOOD	FL (US)
STAR	ANNEY	3	KHST	HOMESTEAD	FL (US)
STAR	BLUFI		KHST	HOMESTEAD	FL (US)
STAR	HILEY (RNAV)	4	KHST	HOMESTEAD	FL (US)
STAR	ANNEY	3	KX51	HOMESTEAD	FL (US)
STAR	BLUFI		KX51	HOMESTEAD	FL (US)
STAR	HILEY (RNAV)	4	KX51	HOMESTEAD	FL (US)
STAR	FRWAY (RNAV)		K06FA	JUPITER	FL (US)
STAR	TUXXI		K06FA	JUPITER	FL (US)
STAR	WLACE (RNAV)		K06FA	JUPITER	FL (US)
STAR	ANNEY	3	K07FA	KEY LARGO	FL (US)
STAR	BLUFI		K07FA	KEY LARGO	FL (US)
STAR	HILEY (RNAV)	4	K07FA	KEY LARGO	FL (US)
STAR	BAIRN (RNAV)		KLEE	LEESBURG	FL (US)
STAR	GOOFY		KLEE	LEESBURG	FL (US)
STAR	GOOFY		KCOI	MERRITT ISLAND	FL (US)
STAR	ANNEY	3	KMIA	MIAMI	FL (US)
STAR	BLUFI		KMIA	MIAMI	FL (US)
STAR	CYPRESS		KMIA	MIAMI	FL (US)
STAR	HILEY (RNAV)	4	KMIA	MIAMI	FL (US)
STAR	BLUFI		KOPF	MIAMI	FL (US)
STAR	ANNEY	3	KTMB	MIAMI	FL (US)
STAR	BLUFI		KTMB	MIAMI	FL (US)
STAR	HILEY (RNAV)	4	KTMB	MIAMI	FL (US)
STAR	BAIRN (RNAV)		KISM	ORLANDO	FL (US)
STAR	GOOFY		KISM	ORLANDO	FL (US)
STAR	BAIRN (RNAV)		KMCO	ORLANDO	FL (US)
STAR	GOOFY		KMCO	ORLANDO	FL (US)
STAR	BAIRN (RNAV)		KORL	ORLANDO	FL (US)
STAR	GOOFY		KORL	ORLANDO	FL (US)
STAR	BAIRN (RNAV)		KSFB	ORLANDO	FL (US)
STAR	GOOFY		KSFB	ORLANDO	FL (US)
STAR	BLUFI		KPMP	POMPANO BEACH	FL (US)
STAR	WLACE (RNAV)		KSUA	STUART	FL (US)
STAR	FRWAY (RNAV)		KF45	WEST PALM BEACH	FL (US)
STAR	WLACE (RNAV)		KF45	WEST PALM BEACH	FL (US)
STAR	TUXXI		KLNA	WEST PALM BEACH	FL (US)
STAR	WLACE (RNAV)		KLNA	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)		KPBI	WEST PALM BEACH	FL (US)
STAR	TUXXI		KPBI	WEST PALM BEACH	FL (US)
STAR	WLACE (RNAV)		KPBI	WEST PALM BEACH	FL (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17

DATE OF REVISION: 07/19/2018

REASON FOR REVISION:

UPDATED PROCEDURE NAME FOR KBCT VOR/DME-A TO VOR-A PER 8260.3C,1-6-3.

DEVELOPED BY: **DATE:** 03/08/2018 **OFFICE:** AJV-5400 **NAME:** LONNIE EVERHART (TODD BOWLING)

APPROVED BY: **DATE:** **OFFICE:** AJV-5400 **NAME:** LONNIE EVERHART

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: EST
 ARTCC: ZMA
 ATC FACILITY: PBI APP CON/ATCT, MIA APP CON
 OTHER: MCO ATCT, MCO APP CON

RADIO FIX AND HOLDING DATA RECORD

NAME: MRLIN

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 263003.36N/0794557.64W

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	FAC FEET	MRA	MAA
1	FREEPORT	ZFP	VOR/DME	H	270.00	267.00	57.58	57.58		5000	45000
2	VIRGINIA KEY	VKZ	VOR/DME	H	029.00	025.00	49.47	49.47		6000	45000
3	PALM BEACH	PBI	VORTAC	H	124.79	121.79		20.30		2000	45000
4	FORT LAUDERDALE	FLL	VOR/DME	H	046.12	040.12		33.45		6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
VKZ	VOR/DME	R-029	49	6000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

FREEPORT (FAC 1) AND VIRGINIA KEY (FAC 2) USED TO ESTABLISH FIX COORDINATES
ZFP VOR/DME: NO ESV RECORDS ARE RETAINED ON NON U.S. NAVAIDS.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	BR-054V	1, 3				(US)
EN ROUTE	BR-055V	1, 3				(US)
EN ROUTE	BR-064V	1, 4				(US)
EN ROUTE	BR-068V	1, 4				(US)
IAP	RNAV (GPS) Y RWY 23			KBCT	BOCA RATON	FL (US)
IAP	RNAV (GPS) RWY 24			KPMP	POMPANO BEACH	FL (US)
IAP	RNAV (GPS) RWY 34			KLNA	WEST PALM BEACH	FL (US)
IAP	RNAV (GPS)-B			KLNA	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 02/01/2018

REASON FOR REVISION:

1. FIX USE: CHANGED KLNA RNAV (GPS) RWY 33 TO KLNA RNAV (GPS) RWY 34.

DEVELOPED BY: DATE: 06/30/2017 OFFICE: AJV-5433 NAME: DAVID TEFFETELLER (ANDREA CHANEY)

APPROVED BY: DATE: OFFICE: AJV-5430 NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: SOBPO

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 263436.16N/0800218.01W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) Y RWY 23

FAC

PAT

AIRPORT IDENT
KBCT

CITY
BOCA RATON

STATE
FL (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 07/24/2014

REASON FOR REVISION:

FAC 1 REMOVED.
FIX RELOCATED 3774.51FT NW.
FIX USE UPDATED.

DEVELOPED BY:

DATE: 07/31/2012

OFFICE: AJV-352

NAME: HOWARD HAWKINS

APPROVED BY:

DATE: 07/24/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: TANAH

STATE: FL

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 261909.47N/0801018.80W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP
IAP

USE TITLE
RNAV (GPS) RWY 5
RNAV (GPS) Y RWY 23

FAC PAT

AIRPORT IDENT
KBCT
KBCT

CITY
BOCA RATON
BOCA RATON

STATE
FL (US)
FL (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 10/15/2015

REASON FOR REVISION:

REMOVED RNAV (RNP) Z RWY 23 FROM FIX USE.
FIX MOVED 345' SOUTHWEST TO IPDS GENERATED PFAF LOCATION.

DEVELOPED BY:

DATE: 04/29/2015

OFFICE: AJV-352

NAME: MIKE MELSEN

APPROVED BY:

DATE: 10/14/2015

OFFICE: AJV-352

NAME: ADOLFO URRUTIA

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZMA
ATC FACILITY: MIA APP CON
OTHER: PBI APP CON, BCT TOWER