US Department of Transportation
Federal Aviation Administration

STAR - Standard Terminal Arrival

1. Bearings, headings, courses and radials are listed to the nearest hundredth (e.g. 360.00)
2. Distances are in nautical miles to nearest hundredth (e.g. 00.00)
3. Altitudes are minimum altitudes unless otherwise indicated

(1) Transition Routes

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV WP / FIX / NAVAID	(d) To RNAV WP / FIX / NAVAID	(e) Mag Course / Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes
AYBID	AYBID.CAYSL3	***AYBID***	***MIMMI***	194.21/17.90	18000			
			NEUBE	194.24/32.91	18000			
			SWOMP	235.09/31.93	6000			
			FRWAY	212.12/12.86	6000			
ORMOND BEACH	OMN.CAYSL3	***OMN***	***FILBE***	152.36/42.66	18000			
			OBEYS	152.57/37.34	18000			
			HURDE	152.75/10.60	18000			
			CHADO	180.97/42.25	10000			
			STOOP	180.80/04.07	10000			
			FRWAY	161.07/19.69	6000			
TREASURE	TRV.CAYSL3	***TRV***	***CHADO***	143.57/28.50	10000			

(2) Arrival Route Description:

FROM FRWAY TRACK 222.68/8.01 TO TUNNE (MEA 3000), THEN ON TRACK 194.82/22.57 TO CAYSL (MEA 3000), THEN ON HEADING 194.82.

EXPECT RADAR VECTORS TO FINAL COURSE.

(3) Procedural Data Notes:
NOTE: DME/DME/IRU OR GPS REQUIRED. NOTE: RNAV 1. NOTE: RADAR REQUIRED.
NOTE: TURBOJET/TURBOPROP AIRCRAFT ONLY.
NOTE: EXPECT TO CROSS CHADO AT 10000.
NOTE: EXPECT TO CROSS SWOMP AT 8000.

(4) Fixes and/or Holding Patterns:
CHART HOLDING AT AYBID (HOLD N, RT, 194.21 INBOUND).
CHART HOLDING AT SWOMP (HOLD NE, LT, 235.09 INBOUND).
CHART HOLDING AT CUPED (HOLD E, RT, 275.87 INBOUND).

(5) Communications:
PALM BEACH APP CON. 124.6 AND 317.4

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
CAYSL RNAV	THREE	FRWAY.CAYSL3	TWO	15MAR2007	20SEP2012

(12) Airports Served	
Airport Name BOCA RATON	City/State BOCA RATON, FL.
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State

(13) Lost Communications Procedure:
FROM OVER CASYL, LEFT TURN DIRECT PBI VORTAC, THEN DIRECT
CUPED AND HOLD. MAINTAIN 3000.

(14) Remarks:

(15) Additional Flight Data: REFERENCE MAGNETIC VARIATION = KBCT 05W/2000

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
CAYSL RNAV	THREE	FRWAY.CAYSL3	TWO	15MAR2007	20SEP2012

(16) Continuation:

(1) Transition Routes

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV WP / FIX / NAVAID	(d) To RNAV WP / FIX / NAVAID	(e) Mag Course / Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes
			STOOP	180.80/04.07	10000			
			FRWAY	161.07/19.69	6000			

(17) Changes:

1. TUXXI WP CHANGED TO CHADO WP.
2. VERO BEACH VORTAC NAME CHANGED TO TREASURE VORTAC AND UPDATED ASSOCIATED TRANSITION NAME / NOTES.
3. ALL MEA ALTITUDES BETWEEN OMN AND HURDE LOWERED FROM 240 TO 180.
4. CRITICAL DME NOTES REMOVED.
5. ADDED MEA ALTITUDES FOR SEGS FRWAY-TUNNE AND TUNNE-CASYL

(18) Reasons for Changes:

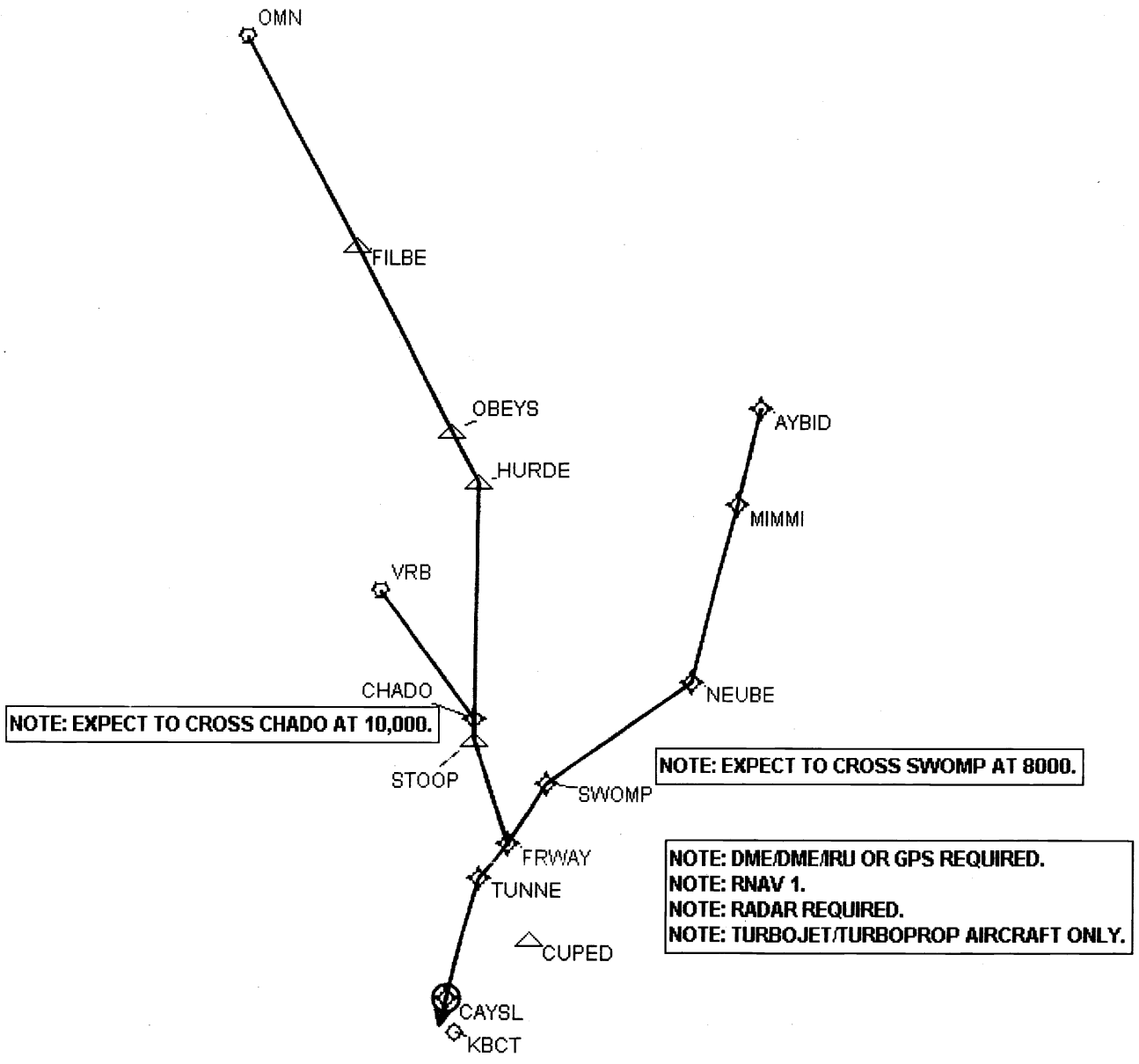
1. ATC REQUEST.
2. ATC REQUEST.
3. DME/DME/IRU COVERAGE.
4. CRITICAL DME ELIMINATION PROJECT.
5. ATC REQUEST

06/01/2012: THIS IS A CORRECTED COPY OF THE FORM DEVELOPED ON 12/20/2011.
1. ADDED COMMUNICATIONS FREQUENCIES TO BLOCK 5
2. COMPUTER CODE CHANGED FROM CASYL.CASYL3 TO FRWAY.CASYL3 TO MATCH WHAT IS PUBLISHED

		Name (Typed and Signed), Title and Organization	DATE
Developed By		DUANE SEMCKEN RNAV CTR SUPPORT AJV-E21	20DEC2011
Approved	**NFPG**	DARRYEL ADAMS, MANAGER	
	Reg. ATD		

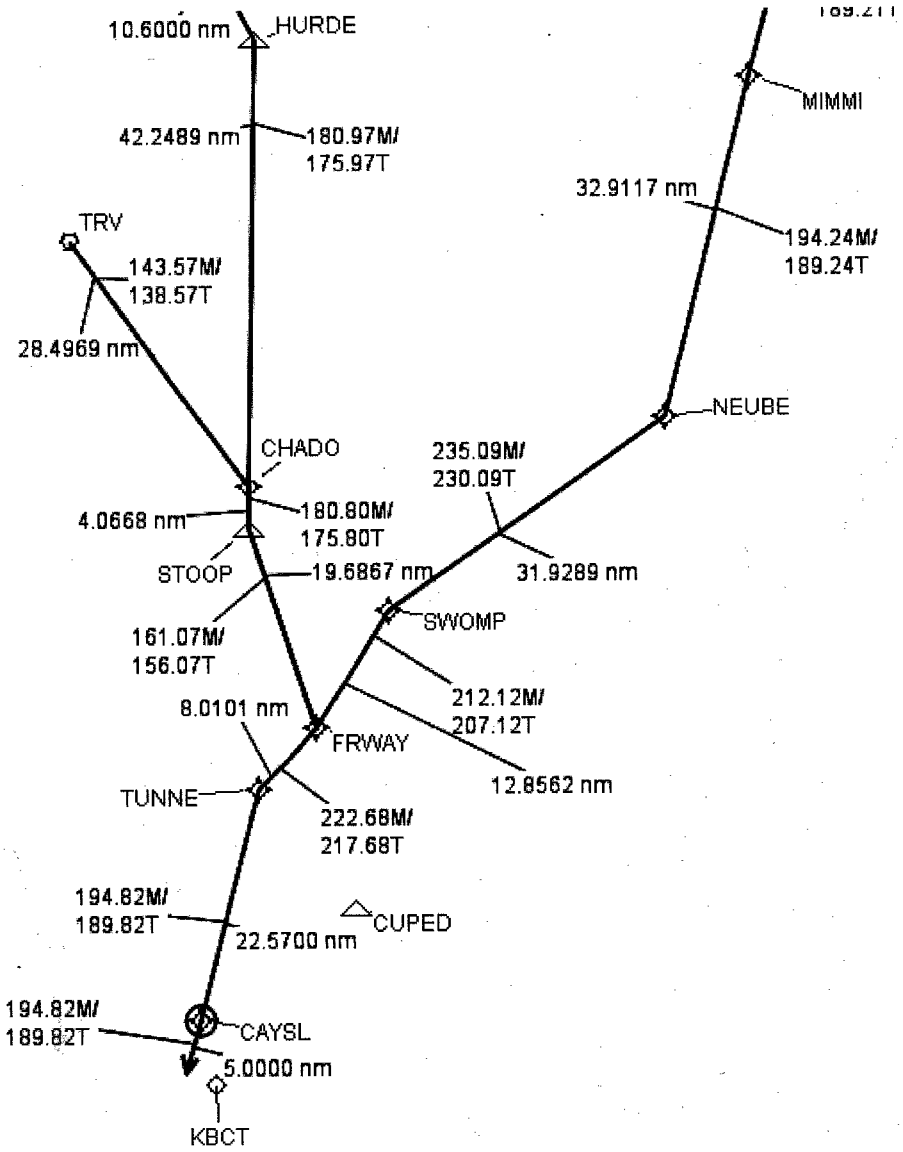
(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
CAYSL RNAV	THREE	FRWAY.CAYSL3	TWO	15MAR2007	20SEP2012

(19) Graphic Depiction (1 of 3)

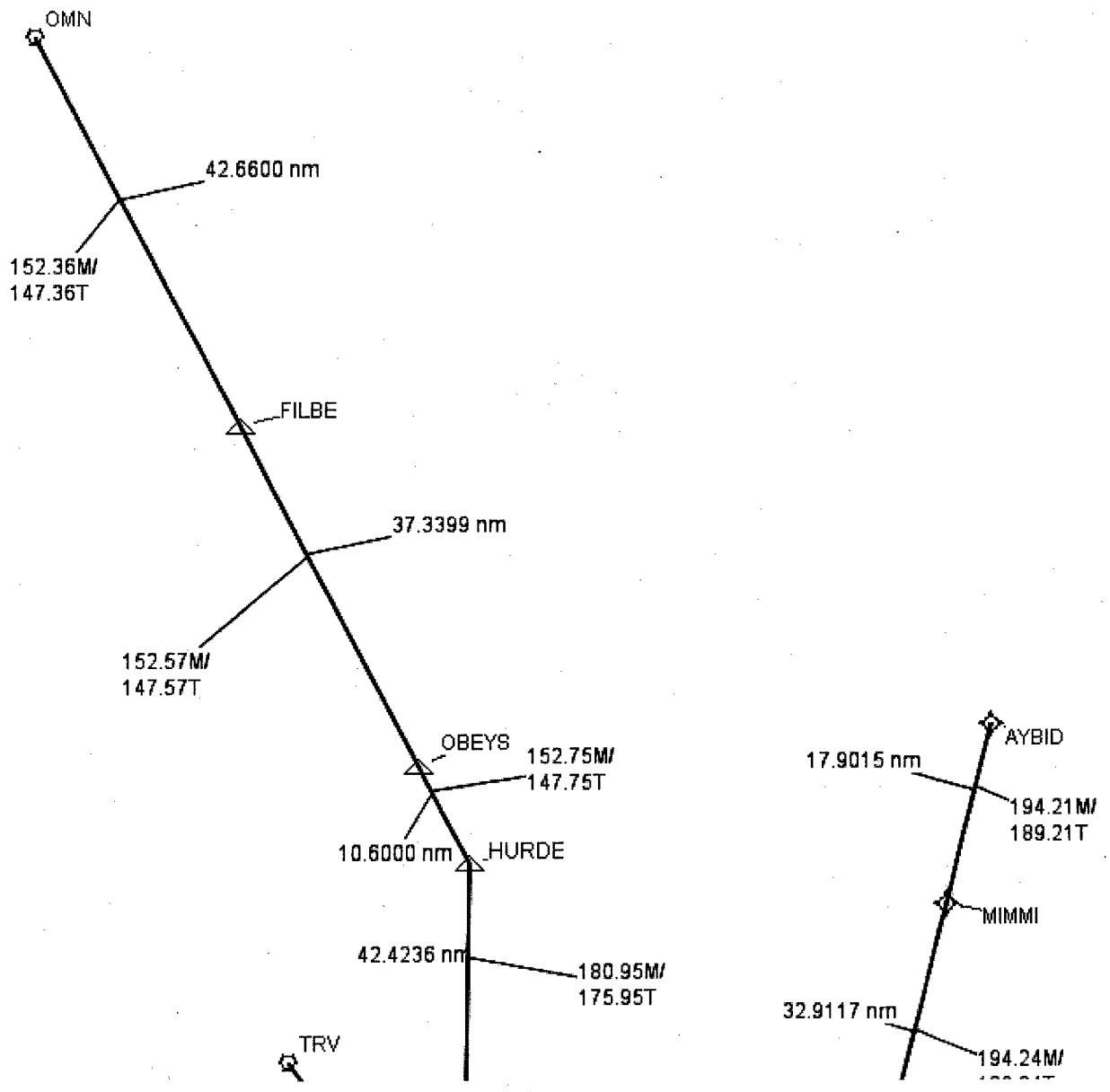


QUALITY CHECKED

(19) Graphic Depiction (2 of 3)



(19) Graphic Depiction (3 of 3)



QUALITY CHECKED

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
En Route Transition									
AYBID	281929.68N / 0791545.11W	Y		IF					AYBID.CAYSL3 HOLDING RT TURNS.
MIMMI	280146.55N / 0791859.39W	Y	FB	TF	189.21	17.90			
NEUBE	272912.00N / 0792456.00W	Y	FB	TF	189.24	32.91			
SWOMP	270836.71N / 0795223.20W	Y	FB	TF	230.09	31.93	AT 8000		HOLDING LT TURNS.
FRWAY	265708.04N / 0795856.71W	Y	FB	TF	207.12	12.86			
En Route Transition									
OMN VORTAC	291811.71N / 0810645.71W	Y		IF					OMN.CAYSL3
FILBE	284208.24N / 0804035.83W	Y	FB	TF	147.36	42.66			
OBEYS	281030.31N / 0801756.41W	Y	FB	TF	147.57	37.34			
HURDE	280130.82N / 0801132.93W	Y	FB	TF	147.75	10.60			
CHADO	271915.14N / 0800812.81W	Y	FB	TF	175.97	42.25	AT 10000		
STOOP	271511.10N / 0800752.77W	Y	FB	TF	175.80	04.07			
FRWAY	265708.04N / 0795856.71W	Y	FB	TF	156.07	19.69			

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
CAYSL RNAV	THREE	FRWAY.CAYSL3	TWO	15MAR2007	20SEP2012

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
En Route Transition									
TRV VORTAC	274042.33N / 0802923.01W	Y		IF					TRV.CAYSL3
CHADO	271915.14N / 0800812.81W	Y	FB	TF	138.57	28.50			
STOOP	271511.10N / 0800752.77W	Y	FB	TF	175.80	04.07			
FRWAY	265708.04N / 0795856.71W	Y	FB	TF	156.07	19.69			
Common Route									
FRWAY	265708.04N / 0795856.71W	Y		IF					
TUNNE	265046.48N / 0800425.16W	Y	FB	TF	217.68	08.01			
CAYSL	262828.19N / 0800842.60W	Y	FO	TF	189.82	22.57			
				VM	189.82				

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
CAYSL RNAV	THREE	FRWAY.CAYSL3	TWO	15MAR2007	20SEP2012

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        OMN   K7011260VTH  N29181171W081064571    N29181171W081064571E0000000192     NARORMOND BEACH
        SUSAD        TRV   K7011730VTHA N27404233W080292301    N27404233W080292301W0070000112     NARTREASURE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   AYBID K70    W   H N28192968W079154511                    W0072     NAR           AYBID
        SUSAEAENRT   CAYSL K70    W     N26282819W080084260                    W0063     NAR           CAYSL
        SUSAEAENRT   CHADO K70    W     N27191514W080081281                    W0065     NAR           CHADO
        SUSAEAENRT   FILBE K70    C     N28420824W080403583                    W0064     NAR           FILBE
        SUSAEAENRT   FRWAY K70    W     N26570804W079585671                    W0065     NAR           FRWAY
        SUSAEAENRT   HURDE K70    C     N28013082W080113293                    W0066     NAR           HURDE
        SUSAEAENRT   MIMMI K70    W     N28014655W079185939                    W0071     NAR           MIMMI
        SUSAEAENRT   NEUBE K70    W     N27291200W079245600                    W0070     NAR           NEUBE
        SUSAEAENRT   OBEYS K70    C     N28103031W080175641                    W0065     NAR           OBEYS
        SUSAEAENRT   STOOP K70    C   L N27151110W080075277                    W0065     NAR           STOOP
        SUSAEAENRT   SWOMP K70    W     N27083671W079522320                    W0066     NAR           SWOMP
        SUSAEAENRT   TUNNE K70    W     N26504648W080042516                    W0064     NAR           TUNNE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBCTK7ABCT     0     062YHN26224260W080062770W005000013         1800018000C    MNAR    BOCA RATON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBCTK7ECAYSL34AYBID 010AYBIDK7EA0E  H    IF                                                  18000
        SUSAP KBCTK7ECAYSL34AYBID 020MIMMIK7EA0E    010TF                    19420179
        SUSAP KBCTK7ECAYSL34AYBID 030NEUBEK7EA0E    010TF                    19420329
        SUSAP KBCTK7ECAYSL34AYBID 040SWOMPK7EA0E  H 010TF                    23510319      08000
        SUSAP KBCTK7ECAYSL34AYBID 050FRWAYK7EA0EE   010TF                    21210129
        SUSAP KBCTK7ECAYSL34OMN   010OMN  K7D 0V       IF                                                  18000
        SUSAP KBCTK7ECAYSL34OMN   020FILBEK7EA0E    010TF                    15240427
        SUSAP KBCTK7ECAYSL34OMN   030OBEYSK7EA0E    010TF                    15260373
        SUSAP KBCTK7ECAYSL34OMN   040HURDEK7EA0E    010TF                    15280106
        SUSAP KBCTK7ECAYSL34OMN   050CHADOK7EA0E    010TF                    18100423      10000
```

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
CAYSL (RNAV)	THREE	FRWAY.CAYSL3	TWO	15 MAR 2007	20 SEP 2012

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```
SUSAP KBCTK7ECAYSL34OMN   060STOOPK7EA0E    010TF                    18080041
SUSAP KBCTK7ECAYSL34OMN   070FRWAYK7EA0EE   010TF                    16110197
SUSAP KBCTK7ECAYSL34TRV   010TRV  K7D 0V      IF                                        18000
SUSAP KBCTK7ECAYSL34TRV   020CHADOK7EA0E    010TF                    14360285
SUSAP KBCTK7ECAYSL34TRV   030STOOPK7EA0E    010TF                    18080041
SUSAP KBCTK7ECAYSL34TRV   040FRWAYK7EA0EE   010TF                    16110197
SUSAP KBCTK7ECAYSL35ALL   010FRWAYK7EA0E       IF                                        18000
SUSAP KBCTK7ECAYSL35ALL   020TUNNEK7EA0E    010TF                    22270080
SUSAP KBCTK7ECAYSL35ALL   030CAYSLK7EA0EY   010TF                    19480226
SUSAP KBCTK7ECAYSL35ALL   040KBCT K7PA0AE      VM                    1948
```

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBCTK7GRW05    0062760494 N26222525W080064648+0000    -0022400012069640150R
        SUSAP KBCTK7GRW23    0062762293 N26230209W080060650+0000    -0022100013037840150R
```

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
CAYSL (RNAV)	THREE	FRWAY.CAYSL3	TWO	15 MAR 2007	20 SEP 2012

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	AYBID	AYBID	010		IF		FB					
	AYBID	MIMMI	020		TF		FB	1.0	194.2()	017.9		
	AYBID	NEUBE	030		TF		FB	1.0	194.2()	032.9		
	AYBID	SWOMP	040		TF		FB	1.0	235.1()	031.9	AT 08000	
	AYBID	FRWAY	050		TF		FB	1.0	212.1()	012.9		
	OMN	OMN	010		IF		FB					
	OMN	FILBE	020		TF		FB	1.0	152.4()	042.7		
	OMN	OBEYS	030		TF		FB	1.0	152.6()	037.3		
	OMN	HURDE	040		TF		FB	1.0	152.8()	010.6		
	OMN	CHADO	050		TF		FB	1.0	181.0()	042.3	AT 10000	
	OMN	STOOP	060		TF		FB	1.0	180.8()	004.1		
	OMN	FRWAY	070		TF		FB	1.0	161.1()	019.7		
	TRV	TRV	010		IF		FB					
	TRV	CHADO	020		TF		FB	1.0	143.6()	028.5		
	TRV	STOOP	030		TF		FB	1.0	180.8()	004.1		
	TRV	FRWAY	040		TF		FB	1.0	161.1()	019.7		
	ALL	FRWAY	010		IF		FB					
	ALL	TUNNE	020		TF		FB	1.0	222.7()	008.0		
	ALL	CAYSL	030		TF		FO	1.0	194.8()	022.6		
	ALL	KBCT	040		VM		FB		194.8()			

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
OMN	N291811.71	W0810645.71	N2918.195	W08106.762
TRV	N274042.33	W0802923.01	N2740.706	W08029.384
AYBID	N281929.68	W0791545.11	N2819.495	W07915.752
CAYSL	N262828.19	W0800842.60	N2628.470	W08008.710
CHADO	N271915.14	W0800812.81	N2719.252	W08008.214
FILBE	N284208.24	W0804035.83	N2842.137	W08040.597
FRWAY	N265708.04	W0795856.71	N2657.134	W07958.945
HURDE	N280130.82	W0801132.93	N2801.514	W08011.549
MIMMI	N280146.55	W0791859.39	N2801.776	W07918.990
NEUBE	N272912.00	W0792456.00	N2729.200	W07924.933
OBEYS	N281030.31	W0801756.41	N2810.505	W08017.940
STOOP	N271511.10	W0800752.77	N2715.185	W08007.880
SWOMP	N270836.71	W0795223.20	N2708.612	W07952.387
TUNNE	N265046.48	W0800425.16	N2650.775	W08004.419
RW05	N262225.25	W0800646.48	N2622.421	W08006.775

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
CAYSL (RNAV)	THREE	FRWAY.CAYSL3	TWO	15 MAR 2007	20 SEP 2012

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RW23	N262302.09	W0800606.50	N2623.035	W08006.108

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW05	00012	40
RW23	00013	40

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
CAYSL (RNAV)	THREE	FRWAY.CAYSL3	TWO	15 MAR 2007	20 SEP 2012

RADIO FIX AND HOLDING DATA RECORD

NAME: CAYSL **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 262828.19N/0800842.60W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	CAYSL (RNAV)			KBCT	BOCA RATON	FL (US)
STAR	PRRIE (RNAV)			KBCT	BOCA RATON	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
REMOVED FAC 1 REFERENCE TO SHADY
UPDATED FIX USE

DEVELOPED BY: **DATE:** 03/27/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: FRWAY **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 265708.04N/0795856.71W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 10 L			KPBI	WEST PALM BEACH	FL (US)
IAP	RNAV (RNP) Z RWY 14			KPBI	WEST PALM BEACH	FL (US)
IAP	RNAV (RNP) Z RWY 28R			KPBI	WEST PALM BEACH	FL (US)
IAP	RNAV (RNP) Z RWY 32			KPBI	WEST PALM BEACH	FL (US)
STAR	CAYSL (RNAV)			KBCT	BOCA RATON	FL (US)
STAR	FRWAY (RNAV)			K06FA	JUPITER	FL (US)
STAR	FRWAY (RNAV)			KF45	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)			KPBI	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 02/11/2010

REASON FOR REVISION:
DELETED FAC 1 TUNNE FROM FIX MAKE-UP
UPDATED FIX USE
UPDATED REQUIRED CHARTING INFORMATION
UPDATED FIX TYPE ACTION TO MODIFY.

DEVELOPED BY: **DATE:** 06/01/2009 **OFFICE:** AVN-110 **NAME:** FRANK JACKSON

APPROVED BY: **DATE:** 12/15/2009 **OFFICE:** AVN-110 **NAME:** PETER GETZ

SIGNATURE:

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

QUALITY A CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: NEUBE **STATE:** OA **COUNTRY:** US

LATITUDE/LONGITUDE: 272912.00N/0792456.00W **TYPE:** WP

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

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	N		WP	015.24	195.24	L		10	18000	45000	18	31

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	SHIP	272912.00N/0792456.00W	208	2C

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING WITHIN W-497.
PRECIPITOUS TERRAIN EVALUATION COMPLETED
ATC REQUESTED 10 NM LEG LENGTHS FOR PAT 1.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	CAYSL (RNAV)			KBCT	BOCA RATON	FL (US)
STAR	FRWAY (RNAV)		1	K06FA	JUPITER	FL (US)
STAR	FRWAY (RNAV)		1	KF45	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)		1	KPBI	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. DELETED FAC 1, SWOMP.
2. ADDED PAT 1.
3. ADDED REMARK, PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING WITHIN W-497.
4. ADDED REMARK, ATC REQUESTED 10 NM LEG LENGTHS FOR PAT 1.
5. CHANGED PAT 1 CRS INBOUND FROM 195.54 TO 195.24.

DEVELOPED BY: **DATE:** 08/19/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

APPROVED BY: **DATE:** 12/27/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: STOOP **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 271511.10N/0800752.77W **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	DIST FROM FAC FEET	MRA	MAA
1	PALM BEACH	PBI	VORTAC	H	359.00	356.00	34.37	34.37		3000	17500
2	PAHOKEE	PHK	VORTAC	H	046.72	046.72		41.14		2000	17500
3	VERO BEACH	VRB	VORTAC	H	146.99	142.99	31.84	31.84		2000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
PHK	VORTAC	R-047	42	2000	14600

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
VERO BEACH (FAC 3) AND PALM BEACH (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V295	1, 2, 3				FL (US)
EN ROUTE	V492	1, 2, 3				FL (US)
EN ROUTE	V537	1, 2, 3				FL (US)
IAP	RNAV (GPS) RWY 30			KSUA	STUART	FL (US)
STAR	CAYSL (RNAV)			KBCT	BOCA RATON	FL (US)
STAR	FRWAY (RNAV)			K06FA	JUPITER	FL (US)
STAR	FRWAY (RNAV)			KF45	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)			KPBI	WEST PALM BEACH	FL (US)
STAR	TUXXI			KPBI	WEST PALM BEACH	FL (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. UPDATED FAC 1 AND 2 FROM HISTORY TO ACTIVE STATUS.
2. DOCUMENTED ESV FOR PHK R-047/42 NM/2000-14500.
3. ADDED REMARK, VERO BEACH (FAC 3) AND PALM BEACH (FAC 1) USED TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: **DATE:** 08/18/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

APPROVED BY: **DATE:** 12/27/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TREASURE VORTAC **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 274042.33N/0802923.01W **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	DIST FROM FAC FEET	MRA	MAA
1	TREASURE	TRV	VORTAC	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	N	TRV	VORTAC	347.04	167.04	L	1-1 1/2		10000	24000	4	19
2	N	TRV	VORTAC	348.00	168.00	R	1-1 1/2		2000	24000	4	19
3	NW	TRV	VORTAC	336.95	156.95	R		4	2000	6000	4	5
4	N		WP	351.09	171.09	L		8	13000	45000	12	31
5	NW	TRV	VORTAC	303.00	123.00	R	1		2000	6000	4	5
6	N		WP	348.10	168.10	L		10	10000	16000	15	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (12-002803)	274408.00N/0802726.00W	524	5D
2	200	TOWER (12-002803)	274408.00N/0802726.00W	524	5D
3	200	TOWER (12-002803)	274408.00N/0802726.00W	524	5D
4	230	TOWER (12-002803)	274408.00N/0802726.00W	524	5D
5	200	TOWER (12-003485)	274431.00N/0803923.00W	398	5D
6	230	TOWER (12-002803)	274408.00N/0802726.00W	524	5D

REASON FOR NONSTANDARD HOLDING:
PAT 4 AVOID ADJACENT AIRSPACE
PAT 6 ATC REQUEST
PAT 1 AVOID ADJACENT AIRSPACE

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVAL COMPLETED.
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER W-497B.
PAT 2 HOLDING ATC REQUEST.
PAT 5 ALTERNATE MISSED APPROACH HOLDING. (DO NOT CHART)

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MELBOURNE			KMLB	MELBOURNE	FL (US)
DP	CITRUS			KMCO	ORLANDO	FL (US)
DP	ORLANDO			KMCO	ORLANDO	FL (US)
DP	MALRY			KORL	ORLANDO	FL (US)
DP	SOAPS			KORL	ORLANDO	FL (US)
DP	SANFORD			KSFB	ORLANDO	FL (US)
DP	PALM BEACH			KPBI	WEST PALM BEACH	FL (US)
EN ROUTE	BR62V					(US)
EN ROUTE	J45					(US)
EN ROUTE	J79					(US)
EN ROUTE	V159					(US)
EN ROUTE	V225					(US)
EN ROUTE	V295					(US)
EN ROUTE	V3					(US)
EN ROUTE	V51					(US)
EN ROUTE	V537					(US)
IAP	ILS OR LOC RWY 10R			KFPR	FORT PIERCE	FL (US)
IAP	NDB RWY 28L			KFPR	FORT PIERCE	FL (US)
IAP	NDB-A			KFPR	FORT PIERCE	FL (US)
IAP	RNAV (GPS) RWY 10R			KFPR	FORT PIERCE	FL (US)
IAP	RNAV (GPS) RWY 28L			KFPR	FORT PIERCE	FL (US)
IAP	VOR/DME RWY 14		3	KFPR	FORT PIERCE	FL (US)
IAP	ILS OR LOC RWY 09R			KMLB	MELBOURNE	FL (US)
IAP	LOC BC RWY 27L			KMLB	MELBOURNE	FL (US)
IAP	RNAV (GPS) RWY 09L			KMLB	MELBOURNE	FL (US)
IAP	RNAV (GPS) RWY 09R			KMLB	MELBOURNE	FL (US)
IAP	RNAV (GPS) RWY 27L			KMLB	MELBOURNE	FL (US)
IAP	RNAV (GPS) RWY 27R			KMLB	MELBOURNE	FL (US)
IAP	RNAV (GPS) RWY 14			KOBE	OKEECHOBEE	FL (US)
IAP	RNAV (GPS) RWY 23			KOBE	OKEECHOBEE	FL (US)
IAP	VOR RWY 11R			KVRB	VERO BEACH	FL (US)
IAP	VOR/DME RWY 29L		5	KVRB	VERO BEACH	FL (US)
STAR	GOOFY			KX04	APOPKA	FL (US)

QUALITY CHECKED

STAR	CAYSL (RNAV)		KBCT	BOCA RATON	FL (US)
STAR	BLUFI		KFLL	FORT LAUDERDALE	FL (US)
STAR	FISEL (RNAV)		KFLL	FORT LAUDERDALE	FL (US)
STAR	GISSH		KFLL	FORT LAUDERDALE	FL (US)
STAR	ANNEY	1	KHST	HOMESTEAD	FL (US)
STAR	HILEY (RNAV)	6	KHST	HOMESTEAD	FL (US)
STAR	ANNEY	1	KX51	HOMESTEAD	FL (US)
STAR	HILEY (RNAV)	6	KX51	HOMESTEAD	FL (US)
STAR	FRWAY (RNAV)		K06FA	JUPITER	FL (US)
STAR	ANNEY	1	K07FA	KEY LARGO	FL (US)
STAR	HILEY (RNAV)	6	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	1	KMIA	MIAMI	FL (US)
STAR	HILEY (RNAV)	6	KMIA	MIAMI	FL (US)
STAR	ANNEY	1	KTMB	MIAMI	FL (US)
STAR	HILEY (RNAV)	6	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	GOOFY		KTIX	TITUSVILLE	FL (US)
STAR	FRWAY (RNAV)		KF45	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)		KPBI	WEST PALM BEACH	FL (US)
STAR	TUXXI		KPBI	WEST PALM BEACH	FL (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 16 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FIX NAME CHANGED FROM VERO BEACH VORTAC TO TREASURE VORTAC.
CHANGED HOLD PATTERN 3 MAX TEMPLATE FROM 16 TO 5; CHANGED LEG LENGTH FROM TIME TO DME.
CHANGED INBOUND COURSE TO PAT 2, 3, 4, 5, 6, ADDED 3 DEGREES FOR MAGVAR CHANGE.
CHANGED HOLD PAT 1 INBOUND COURSE FROM 165 TO 167.04 AND MIN ALTITUDE TO 10000.

DEVELOPED BY: **DATE:** 03/16/2012 **OFFICE:** AJV-352 **NAME:** STEVE BRUMMETT

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZMA
ATC FACILITY: VRB ATCT
OTHER: DAB APP CON/MLB TWR

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TUXXI **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 271904.71N/0800811.18W **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	DIST FROM FAC FEET	MRA	MAA
1	PALM BEACH	PBI	VORTAC	H	359.00	356.00	38.26	38.26		10000	45000
2	TREASURE	TRV	VORTAC	H	145.76	138.76	28.64	28.64		10000	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	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	N	PBI	VORTAC	359.00	179.00	R		8	10000	45000	11	31

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (12-002428)	271631.00N/0801710.00W	514	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PALM BEACH (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING WITHIN W497B.
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	FRWAY (RNAV)			KPBI	WEST PALM BEACH	FL (US)
STAR	TUXXI	1, 2	1	KPBI	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
REMOVED FAC 3
UPDATED FIX USE
ADDED DIST FROM NM TO FAC TO FACS 1/2
ADDED PRECIP TERRAIN REMARK
UPDATED FAC 2 CRS FROM XXX.77 TO XXX.76
UPDATED CONTROLLING OBSTACLE ID

DEVELOPED BY: **DATE:** 03/27/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZMA
ATC FACILITY:
OTHER:

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: AYBID **STATE:** OA **COUNTRY:** US

LATITUDE/LONGITUDE: 281929.68N/0791545.11W **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	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	N		WP	014.21	194.21	R		12	18000	45000	20	31
2	N		WP	015.21	195.21	R		12	18000	45000	20	31

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING WITHIN W-497A, W-497B.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (OA)
EN ROUTE	AR19					
STAR	CAYSL (RNAV)		1	KBCT	BOCA RATON	FL (US)
STAR	FRWAY (RNAV)		2	K06FA	JUPITER	FL (US)
STAR	FRWAY (RNAV)		2	KLNA	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)		2	KPBI	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. CHANGED PAT 2 CRS INBOUND FROM 197.21 TO 195.21.

DEVELOPED BY: **DATE:** 09/23/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

APPROVED BY: **DATE:** 12/27/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED 4

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: CHADO **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 271915.14N/0800812.81W **TYPE:** WP

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

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	N		WP	001.80	181.80	R		7	10000	14000	10	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (12-004223)	271814.00N/0801647.00W	317	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING WITHIN W-497.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	FRWAY (RNAV)		1	K06FA	JUPITER	FL (US)
STAR	FRWAY (RNAV)		1	KF45	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)		1	KPBI	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 02/09/2012

DEVELOPED BY: **DATE:** 08/18/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

APPROVED BY: **DATE:** 12/27/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY A CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: CUPED **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 264024.14N/0795311.55W **TYPE:** WP, RADAR, 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	DIST FROM FAC FEET	MRA	MAA
1	WEST PALM BEACH	I-PWB	LOC		098.79	092.79		12.06		3000	4500
2	PALM BEACH	PBI	VORTAC	H			10.75	10.75		3000	17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E		WP	095.87	275.87	R		4	3000	6000	5	6
2	E		WP	098.87	278.87	R		4	3000	6000	5	6
3	E	I-PWB	LOC	098.79	278.79	R	1		3000	4000	4	4

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	SHIP	264024.14N/0795011.55W	208	2C
2	200	SHIP	264024.14N/0795311.55W	208	2C
3	200	SHIP	264024.14N/0795311.55W	208	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
KPBI R28R DISPLACED THRESHOLD COORDINATES: 264055.13N - 0800448.89W
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	PRRIE (RNAV)		1	KBCT	BOCA RATON	FL (US)
IAP	ILS OR LOC RWY 28R	1, 2	3	KPBI	WEST PALM BEACH	FL (US)
IAP	RNAV (GPS) Y RWY 28R		2	KPBI	WEST PALM BEACH	FL (US)
IAP	RNAV (RNP) Z RWY 28R		2	KPBI	WEST PALM BEACH	FL (US)
STAR	CAYSL (RNAV)		1	KBCT	BOCA RATON	FL (US)
STAR	FRWAY (RNAV)		2	K06FA	JUPITER	FL (US)
STAR	WLACE (RNAV)		2	K06FA	JUPITER	FL (US)
STAR	WLACE (RNAV)		2	KSUA	STUART	FL (US)
STAR	FRWAY (RNAV)		2	KF45	WEST PALM BEACH	FL (US)
STAR	WLACE (RNAV)		2	KF45	WEST PALM BEACH	FL (US)
STAR	WLACE (RNAV)		2	KLNA	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)		2	KPBI	WEST PALM BEACH	FL (US)
STAR	WLACE (RNAV)		2	KPBI	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. MOVED REMARK, HOLDING LIMITED TO ESTABLISHED PATTERNS, TO HOLDING RESTRICTIONS.
2. CHANGED PAT 1, 2, AND 3 CONTROLLING OBSTRUCTION FROM 200' SHIPPING TO 208' SHIP.

DEVELOPED BY: **DATE:** 08/18/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

APPROVED BY: **DATE:** 12/27/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: FILBE **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 284208.24N/0804035.83W **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	DIST FROM FAC FEET	MRA	MAA
1	ORMOND BEACH	OMN	VORTAC	H	147.36	147.36	42.66	42.66		24000	45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
ORMOND BEACH (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	CAYSL (RNAV)			KBCT	BOCA RATON	FL (US)
STAR	FRWAY (RNAV)			K06FA	JUPITER	FL (US)
STAR	FRWAY (RNAV)			KF45	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)			KPBI	WEST PALM BEACH	FL (US)
STAR	TUXXI	1		KPBI	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. DELETED FAC 2, OBEYS.
2. ADDED FAC 1 DIST FROM FAC IN NM.

DEVELOPED BY: **DATE:** 08/17/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

APPROVED BY: **DATE:** 12/27/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZMA
ATC FACILITY:
OTHER:

QUALITY A CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: HURDE **STATE:** OA **COUNTRY:** US

LATITUDE/LONGITUDE: 280130.82N/0801132.93W **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	DIST FROM FAC FEET	MRA	MAA
1	ORMOND BEACH	OMN	VORTAC	H	147.36	147.36	90.60	90.60		24000	45000
2	PALM BEACH	PBI	VORTAC	H	359.00	356.00	80.68	80.68		10000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
PBI	VORTAC	R-359	81	10000	45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	N	PBI	VORTAC	359.00	179.00	L		6	10000	45000	11	31
2	N		WP	001.97	181.97	L		8	18000	45000	17	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	SHIP	280130.82N/0801132.93W	208	2C
2	265	SHIP	280130.82N/0801132.93W	208	2C

REASON FOR NONSTANDARD HOLDING:
PAT 2 ATC REQUEST.
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
ORMOND BEACH (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER W497B.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	CAYSL (RNAV)			KBCT	BOCA RATON	FL (US)
STAR	FRWAY (RNAV)		2	K06FA	JUPITER	FL (US)
STAR	FRWAY (RNAV)		2	KF45	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)		2	KPBI	WEST PALM BEACH	FL (US)
STAR	TUXXI	1, 2	1	KPBI	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. DELETED FAC 3, TUXXI.
2. ADDED FAC 1 AND 2 DIST FROM FAC IN NM.
3. ADDED PAT 2.
4. CHANGED PAT 1 CONTROLLING OBSTRUCTION FROM 200' AAO TO 208' SHIP.
5. ADDED REMARK, PRECIPITOUS TERRAIN EVALUATION COMPLETED.
6. MOVED REMARK, HOLDING LIMITED TO ESTABLISHED PATTERN, TO HOLDING RESTRICTIONS.
7. UPDATED ESV FORMAT.

DEVELOPED BY: **DATE:** 08/18/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

APPROVED BY: **DATE:** 12/27/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED 4

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: MIMMI **STATE:** OA **COUNTRY:** US

LATITUDE/LONGITUDE: 280146.55N/0791859.39W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	CAYSL (RNAV)			KBCT	BOCA RATON	FL (US)
STAR	FRWAY (RNAV)			K06FA	JUPITER	FL (US)
STAR	FRWAY (RNAV)			KF45	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)			KPBI	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. DELETED FAC 1, NEUBE.

DEVELOPED BY: **DATE:** 08/19/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

APPROVED BY: **DATE:** 12/27/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: OBEYS **STATE:** OA **COUNTRY:** US

LATITUDE/LONGITUDE: 281030.31N/0801756.41W **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	DIST FROM FAC FEET	MRA	MAA
1	ORMOND BEACH	OMN	VORTAC	H	147.36	147.36	80.00	80.00		24000	45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
ORMOND BEACH (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	CAYSL (RNAV)			KBCT	BOCA RATON	FL (US)
STAR	FRWAY (RANV)			K06FA	JUPITER	FL (US)
STAR	FRWAY (RANV)			KF45	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)			KPBI	WEST PALM BEACH	FL (US)
STAR	TUXXI	1		KPBI	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. DELETED FAC 2, HURDE.
2. ADDED FAC 1 DIST FROM FAC IN NM.

DEVELOPED BY: **DATE:** 08/17/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

APPROVED BY: **DATE:** 12/27/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: ORMOND BEACH VORTAC **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 291811.71N/0810645.71W **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	DIST FROM FAC FEET	MRA	MAA
1	ORMOND BEACH	OMN	VORTAC	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NW	OMN	VORTAC	336.00	156.00	L	1		1600	6000	4	5
2	SE	OMN	VORTAC	154.00	334.00	L	1		1600	6000	4	5
3	N	OMN	VORTAC	342.00	162.00	R	1		1600	6000	4	5
4	N	OMN	VORTAC	356.00	176.00	L	1-1 1/2		6000	45000	7	29
5	N		WP	001.00	181.00	L		5	6000	18000	6	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (12-002625)	291529.00N/0810745.00W	378	5D
2	200	TOWER (12-003334)	291411.52N/0810421.49W	381	2C
3	200	TOWER (12-002625)	291529.00N/0810745.00W	378	5D
4	230	TOWER (12-003334)	291411.52N/0810421.49W	381	2C
5	200	TOWER (12-003334)	291411.52N/0810421.49W	381	2C

REASON FOR NONSTANDARD HOLDING:
PAT 4 ATC REQUEST
PAT 1 ZJX REQUEST
PAT 5 ATC REQUESTED

REMARKS:
HOLDING LIMITED TO ESTABLISHED PATTERNS
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER W158A

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LAMMA			KDAB	DAYTONA BEACH	FL (US)
DP	ROYES			KDAB	DAYTONA BEACH	FL (US)
DP	SAWGY			KJAX	JACKSONVILLE	FL (US)
DP	MELBOURNE			KMLB	MELBOURNE	FL (US)
DP	CITRUS			KMCO	ORLANDO	FL (US)
DP	JAGUAR			KMCO	ORLANDO	FL (US)
DP	JEEMY			KMCO	ORLANDO	FL (US)
DP	MCCOY			KMCO	ORLANDO	FL (US)
DP	ORLANDO			KMCO	ORLANDO	FL (US)
DP	SANFORD			KSFB	ORLANDO	FL (US)
EN ROUTE	J45					(US)
EN ROUTE	J79					(US)
EN ROUTE	J79-103					(US)
EN ROUTE	T207-208					(US)
EN ROUTE	V152-437					(US)
EN ROUTE	V3					(US)
EN ROUTE	V3-533					(US)
EN ROUTE	V437					(US)
EN ROUTE	V51					(US)
IAP	ILS OR LOC RWY 25R			KDAB	DAYTONA BEACH	FL (US)
IAP	ILS OR LOC RWY 7L			KDAB	DAYTONA BEACH	FL (US)
IAP	RNAV (GPS) RWY 16			KDAB	DAYTONA BEACH	FL (US)
IAP	RNAV (GPS) RWY 25L			KDAB	DAYTONA BEACH	FL (US)
IAP	RNAV (GPS) RWY 7R			KDAB	DAYTONA BEACH	FL (US)
IAP	RNAV (GPS) Y RWY 7L			KDAB	DAYTONA BEACH	FL (US)
IAP	RNAV (GPS) Z RWY 7L			KDAB	DAYTONA BEACH	FL (US)
IAP	VOR RWY 16			KDAB	DAYTONA BEACH	FL (US)
IAP	RNAV (GPS) RWY 23			KDED	DELAND	FL (US)
IAP	VOR/DME RWY 23		1	KDED	DELAND	FL (US)
IAP	NDB RWY 29			KEVB	NEW SMYRNA BEACH	FL (US)
IAP	RNAV (GPS) RWY 25			KEVB	NEW SMYRNA BEACH	FL (US)
IAP	RNAV (GPS) RWY 29			KEVB	NEW SMYRNA BEACH	FL (US)
IAP	NDB OR GPS RWY 18			KX50	NEW SMYRNA BEACH	FL (US)
IAP	ILS OR LOC RWY 35L			KMCO	ORLANDO	FL (US)
IAP	ILS RWY 35L (CAT II)			KMCO	ORLANDO	FL (US)
IAP	ILS RWY 35L (CAT III)			KMCO	ORLANDO	FL (US)
IAP	ILS OR LOC RWY 27			KSFB	ORLANDO	FL (US)
IAP	ILS OR LOC RWY 9L			KSFB	ORLANDO	FL (US)
IAP	ILS OR LOC RWY 9R			KSFB	ORLANDO	FL (US)
IAP	NDB-C			KSFB	ORLANDO	FL (US)
IAP	VOR RWY 17		3	KOMN	ORMOND BEACH	FL (US)

QUALITY CHECKED 4

IAP	RNAV (GPS) RWY 11		KXFL	PALM COAST	FL (US)
IAP	RNAV (GPS) RWY 24		KXFL	PALM COAST	FL (US)
IAP	RNAV (GPS) RWY 29		KXFL	PALM COAST	FL (US)
IAP	RNAV (GPS) RWY 6		KXFL	PALM COAST	FL (US)
IAP	VOR-A	2	KXFL	PALM COAST	FL (US)
IAP	ILS RWY 31		KSGJ	ST AUGUSTINE	FL (US)
IAP	RNAV (GPS) RWY 31		KSGJ	ST AUGUSTINE	FL (US)
IAP	VOR RWY 13		KSGJ	ST AUGUSTINE	FL (US)
IAP	VOR RWY 31		KSGJ	ST AUGUSTINE	FL (US)
IAP	GPS RWY 15		KX21	TITUSVILLE	FL (US)
STAR	CAYSL (RNAV)		KBCT	BOCA RATON	FL (US)
STAR	FISEL (RNAV)		KFLL	FORT LAUDERDALE	FL (US)
STAR	GISSH		KFLL	FORT LAUDERDALE	FL (US)
STAR	SHFTY (RNAV)		KFMY	FORT MYERS	FL (US)
STAR	ANNEY		KHST	HOMESTEAD	FL (US)
STAR	HILEY (RNAV)		KHST	HOMESTEAD	FL (US)
STAR	ANNEY		KX51	HOMESTEAD	FL (US)
STAR	HILEY (RNAV)		KX51	HOMESTEAD	FL (US)
STAR	POGIE		KJAX	JACKSONVILLE	FL (US)
STAR	FRWAY (RNAV)		K06FA	JUPITER	FL (US)
STAR	ANNEY		K07FA	KEY LARGO	FL (US)
STAR	HILEY (RNAV)		K07FA	KEY LARGO	FL (US)
STAR	ANNEY		KMIA	MIAMI	FL (US)
STAR	HILEY RNAV		KMIA	MIAMI	FL (US)
STAR	ANNEY		KTMB	MIAMI	FL (US)
STAR	HILEY (RNAV)		KTMB	MIAMI	FL (US)
STAR	BITHO	4	KMCO	ORLANDO	FL (US)
STAR	BUGGZ (RNAV)		KMCO	ORLANDO	FL (US)
STAR	CWRLD	5	KMCO	ORLANDO	FL (US)
STAR	FATHE		KMCO	ORLANDO	FL (US)
STAR	GUASP		KMCO	ORLANDO	FL (US)
STAR	LEESE		KMCO	ORLANDO	FL (US)
STAR	PIGLT (RNAV)		KMCO	ORLANDO	FL (US)
STAR	CORLL		KSFB	ORLANDO	FL (US)
STAR	FRWAY (RNAV)		KF45	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)		KPBI	WEST PALM BEACH	FL (US)
STAR	TUXXI		KPBI	WEST PALM BEACH	FL (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 08/25/2011

INFO ONLY

REASON FOR REVISION:
UPDATED PAT 5.

DEVELOPED BY: **DATE:** 02/17/2011 **OFFICE:** AVN-110 **NAME:** DONALD SMITH (CHRISTOPHER JOHENGEN)

APPROVED BY: **DATE:** 07/11/2011 **OFFICE:** AVN-110 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: DAB APP CON
OTHER:

QUALITY CHECKED 4

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: PALM BEACH VORTAC **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 264048.19N/0800511.42W **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	DIST FROM FAC FEET	MRA	MAA
1	PALM BEACH	PBI	VORTAC	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES 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	345.19	165.19	L		10	5000	14000	10	12

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (12-004716)	263521.00N/0801243.00W	1349	5D
1	200	TOWER (12-002718)	264427.00N/0800743.00W	457	5D
2	200	TOWER (12-002502)	264759.72N/0800431.74W	544	1A
3	230	TOWER (12-002502)	264759.72N/0800431.74W	544	1A
4	200	TOWER (12-002502)	264759.72N/0800431.74W	544	1A

REASON FOR NONSTANDARD HOLDING:
PAT 3 AIR TRAFFIC
PAT 4 AIR TRAFFIC

INFO ONLY

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.
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.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	FT. LAUDERDALE			KFLL	FORT LAUDERDALE	FL (US)
DP	PREDA (RNAV)			KFLL	FORT LAUDERDALE	FL (US)
DP	FT. 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	POTTER			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	FT. 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) RWY 23			KBCT	BOCA RATON	FL (US)
IAP	VOR/DME-A		2	KBCT	BOCA RATON	FL (US)
IAP	BAHMA (RNAV)			KFLL	FORT LAUDERDALE	FL (US)
IAP	ILS OR LOC RWY 27R			KFLL	FORT LAUDERDALE	FL (US)
IAP	ILS OR LOC RWY 9L			KFLL	FORT LAUDERDALE	FL (US)
IAP	LOC/DME RWY 13			KFLL	FORT LAUDERDALE	FL (US)
IAP	ZAPPA (RNAV)			KFLL	FORT LAUDERDALE	FL (US)
IAP	ILS OR LOC/DME RWY 9 (SPECIAL)			K06FA	JUPITER	FL (US)
IAP	RNAV (GPS) RWY 30			KSUA	STUART	FL (US)
IAP	ILS RWY 8R			KF45	WEST PALM BEACH	FL (US)
IAP	VOR RWY 8R			KF45	WEST PALM BEACH	FL (US)

QUALITY CHECKED

IAP	VOR OR GPS RWY 15		KLNA	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)
IAP	VOR RWY 10L		KPBI	WEST PALM BEACH	FL (US)
IAP	VOR RWY 14		KPBI	WEST PALM BEACH	FL (US)
IAP	VOR RWY 28R		KPBI	WEST PALM BEACH	FL (US)
IAP	VOR RWY 32		KPBI	WEST PALM BEACH	FL (US)
IAP	WLACE (RNAV)		KPBI	WEST PALM BEACH	FL (US)
STAR	CAYSL (RNAV)		KBCT	BOCA RATON	FL (US)
STAR	PRRIE (RNAV)		KBCT	BOCA RATON	FL (US)
STAR	TUXXI (RNAV)		KBCT	BOCA RATON	FL (US)
STAR	BLUFI		KFLL	FORT LAUDERDALE	FL (US)
STAR	ANNEY	3	KHST	HOMESTEAD	FL (US)
STAR	HILEY (RNAV)	4	KHST	HOMESTEAD	FL (US)
STAR	ANNEY	3	KX51	HOMESTEAD	FL (US)
STAR	HILEY (RNAV)	4	KX51	HOMESTEAD	FL (US)
STAR	FRWAY (RNAV)		K06FA	JUPITER	FL (US)
STAR	ANNEY	3	K07FA	KEY LARGO	FL (US)
STAR	HILEY (RNAV)	4	K07FA	KEY LARGO	FL (US)
STAR	ANNEY	3	KMIA	MIAMI	FL (US)
STAR	CYPRESS		KMIA	MIAMI	FL (US)
STAR	HILEY (RNAV)	4	KMIA	MIAMI	FL (US)
STAR	ANNEY	3	KTMB	MIAMI	FL (US)
STAR	HILEY (RNAV)	4	KTMB	MIAMI	FL (US)
STAR	BAIRN (RNAV)		KMCO	ORLANDO	FL (US)
STAR	FRWAY (RNAV)		KF45	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)		KPBI	WEST PALM BEACH	FL (US)
STAR	TUXXI		KPBI	WEST PALM BEACH	FL (US)

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

COMPULSORY REPORTING POINT: NO

INFO ONLY

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. UPDATED SURVEY DATA FOR PALM BEACH VORTAC, NEW LAT/LONGS MOVED THE FACILITY 2.02 FEET.
2. MODIFIED HOLD PAT 4 FROM 165.13 TO 163.19.
4. UPDATED FIX USE.

3/26/12. THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 2/14/12.
1. CHANGED PAT 4 CRS INBOUND FROM 163.19 TO 165.19.

DEVELOPED BY: **DATE:** 08/04/2011 **OFFICE:** AJV-352 **NAME:** STEVE BRUMMETT

APPROVED BY: **DATE:** 02/14/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY & CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: SWOMP **STATE:** OA **COUNTRY:** US

LATITUDE/LONGITUDE: 270836.71N/0795223.20W **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	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE		WP	055.09	235.09	L		7	6000	45000	9	31
2	NE		WP	056.09	236.09	L		7	8000	45000	9	31

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	SHIP	270836.71N/0795223.20W	208	2C
2	230	SHIP	270836.71N/0795223.20W	208	2C

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING WITHIN W-497B.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	CAYSL (RNAV)		1	KBCT	BOCA RATON	FL (US)
STAR	FRWAY (RNAV)		2	K06FA	JUPITER	FL (US)
STAR	FRWAY (RNAV)		2	KF45	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)		2	KPBI	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. CHANGED PAT 2 MIN ALTITUDE FROM 6000 TO 8000.
2. CHANGED PAT 1 AND 2 CONTROLLING OBSTRUCTION SPEED FROM 200K TO 230K.
3. CHANGED PAT 2 CRS INBOUND FROM 238.09 TO 236.09.

DEVELOPED BY: **DATE:** 08/19/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

APPROVED BY: **DATE:** 12/27/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY & CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: TUNNE **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 265046.48N/0800425.16W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	CAYSL (RNAV)			KBCT	BOCA RATON	FL (US)
STAR	FRWAY (RNAV)			K06FA	JUPITER	FL (US)
STAR	FRWAY (RNAV)			KF45	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)			KPBI	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. DELETED FAC 1, CAYSL.

DEVELOPED BY: **DATE:** 08/19/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

APPROVED BY: **DATE:** 12/27/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED