

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** BARNES VORTAC      **STATE:** MA      **COUNTRY:** US      **ICAO REGION CODE:** K6  
**LATITUDE/LONGITUDE:** 420943.05N/0724258.32W      **TYPE:**  
**AIRSPACE DOCKET:** 20-AEA-10      **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	BARNES	BAF	VORTAC	L						45000

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

**PATTERNS:**

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	E	BAF	VORTAC	094.75	274.75	L	1		4000 45000	4 29

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	421109.00N/0724742.00W	1306	4E

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 AIR TRAFFIC CONTROL REQUESTED TO PROTECT SECTOR BOUNDARIES

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
FACILITY MAG VAR: 14W 1980.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRADLEY			KBDL	WINDSOR LOCKS	CT (US)
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	BLZZR (RNAV)			KBOS	BOSTON	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	REVSS (RNAV)			KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
DP	NUBLE (RNAV)			KPWM	PORTLAND	ME (US)
DP	PPOINT (RNAV)			KMHT	MANCHESTER	NH (US)
EN ROUTE	Q406					(US)
EN ROUTE	Q448					(US)
EN ROUTE	Q480					(US)
EN ROUTE	T314					(US)
EN ROUTE	V146					(US)
EN ROUTE	V292					(US)
EN ROUTE	V405					(US)
IAP	COPTER ILS OR LOC RWY 6		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS OR LOC RWY 24		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS OR LOC RWY 33		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS OR LOC RWY 6		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS RWY 24 (SA CAT I - II)		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS RWY 6 (CAT II - III)		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS RWY 6 (SA CAT I)		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	VOR/DME-B			7B2	NORTHAMPTON	MA (US)
IAP	ILS OR LOC RWY 20			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	VOR OR TACAN RWY 2			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	VOR RWY 20			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	RNAV (GPS) RWY 11			KORH	WORCESTER	MA (US)
STAR	NOBBI			KDXR	DANBURY	CT (US)
STAR	STELA			KHFD	HARTFORD	CT (US)
STAR	STELA			KBDL	WINDSOR LOCKS	CT (US)
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	STELA			KCEF	SPRINGFIELD/CHICOPEE	MA (US)
STAR	STELA			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
STAR	STELA			KORH	WORCESTER	MA (US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)
STAR	SHAFF			KEWR	NEWARK	NJ (US)
STAR	NOBBI			KLGA	NEW YORK	NY (US)
STAR	NOBBI			KHPN	WHITE PLAINS	NY (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			KNYG	QUANTICO	VA (US)

STAR	HYPER (RNAV)	KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)	KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)	KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)	KMRB	MARTINSBURG	WV (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 20

**DATE OF REVISION:** 06/17/2021

**REASON FOR REVISION:**

AIRSPACE DOCKET: CHANGED 18-AEA-16 TO 20-AEA-10.

REMARKS: REMOVED CONTROLLER LOW ADDED PER ATC REQUEST - NOT NECESSARY.

FIX USE: ADDED T314. REMOVED V106. REMOVED (ALT MISSED APPROACH) FROM KBDL ILS OR LOC RWY 24 AND ILS RWY 24 (SA CAT I-II). REMOVED KMHT POPPP STAR.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A423

**NAME:** BARRY SMITH

**APPROVED BY:**

**DATE:** 03/11/2021

**OFFICE:** AJV-A420

**NAME:** MARLON ROBINSON

**SIGNATURE:**

**DISTRIBUTION:**

NFDC

FPO: EST

ARTCC: ZBW

ATC FACILITY: BDL APP CON

OTHER: HQ AFRC/DOVA

# RADIO FIX AND HOLDING DATA RECORD

NAME: BLZZR

STATE: MA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 421302.39N/0714536.59W

TYPE: WP, 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 NM	FAC FEET	MRA	MAA
1	BOSTON	BOS	VOR/DME	H	272.50	256.50	35.33	35.33		12000	45000

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM	1		KBED	BEDFORD	MA (US)
DP	BEVERLY	1		KBVY	BEVERLY	MA (US)
DP	BLZZR (RNAV)			KBOS	BOSTON	MA (US)
DP	LOGAN	1		KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE	1		KLWM	LAWRENCE	MA (US)
DP	NORWOOD	1		KOWD	NORWOOD	MA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 06/17/2021

## REASON FOR REVISION:

1. REQUIRED CHARTING: UPDATED "CONTROLLER" TO CONTROLLER LOW AND CONTROLLER HIGH.
2. REMARKS: REMOVED.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: ANA VEGA

APPROVED BY:

DATE: 03/19/2021

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** BOSOX **STATE:** MA **COUNTRY:** US **ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 421206.79N/0713739.64W **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	FEET	MRA	MAA
1	BOSTON	BOS	VOR/DME	H	268.04	252.04	29.91	29.91		3000	17500
2	GARDNER	GDM	VOR/DME	L	151.00	137.00		28.15		3000	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	W	BOS	VOR/DME	268.04	088.04	R	1		3000	8000	6	10
2	W		WP	267.04	087.04	R		5	3000	8000	5	9

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	420612.00N/0714851.00W	1080	4E
2	200	AAO	420612.00N/0714851.00W	1080	4E

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
BOSTON (FAC 1) AND GARDNER (FAC 2) USED TO ESTABLISH FIX COORDINATES.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
EN ROUTE	V1	1, 2				(US)
IAP	ILS OR LOC RWY 27	1, 2	1	KBOS	BOSTON	MA (US)
IAP	RNAV (GPS) RWY 27		2	KBOS	BOSTON	MA (US)
IAP	RNAV (GPS) RWY 33			KORH	WORCESTER	MA (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 13 **DATE OF REVISION:** 06/17/2021

**REASON FOR REVISION:**

REQUIRED CHARTING: UPDATED "CONTROLLER" TO CONTROLLER LOW.

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

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A422 **NAME:** ANA VEGA

**APPROVED BY:** **DATE:** 03/19/2021 **OFFICE:** AJV-A420 **NAME:** MARLON ROBINSON

**SIGNATURE:**

**DISTRIBUTION:** NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CAMBRIDGE VOR/DME      **STATE:** NY      **COUNTRY:** US      **ICAO REGION CODE:** K6  
**LATITUDE/LONGITUDE:** 425939.44N/0732038.47W      **TYPE:**  
**AIRSPACE DOCKET:** 20-ASO-31      **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	CAMBRIDGE	CAM	VOR/DME	L						17500

## FIX RESTRICTIONS:

MCA T316 5000 EASTBOUND

## HOLDING:

**HOLDING TYPE OF ACTION:** NO CHANGE

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	N	CAM	VOR/DME	016.00	196.00	R	1		4000 17500	4 16
2	E	CAM	VOR/DME	108.28	288.28	R	1		6000 17500	5 16
3	N	CAM	VOR/DME	340.19	160.19	R	1		3600 17500	4 16

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	430309.00N/0731324.00W	3307	4E
2	200	AAO	425830.00N/0730709.00W	3606	4E
3	200	AAO	430121.00N/0731633.00W	1962	4E
3	310	AAO	430309.00N/0731324.00W	3307	4E

## HOLDING RESTRICTIONS:

PATTERNS 1 AND 2 FOR ATC USE ONLY.  
HOLDING LIMITED TO ESTABLISHED PATTERN(S)

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	TAKE-OFF MINIMUMS	KDDH	BENNINGTON	VT (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
PAT 1 CONTROLLING OBSTACLE LIES IN SECONDARY AREA, 10230 FEET FROM EDGE OF PRIMARY.  
FACILITY MAGVAR:14W/1980

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
DP	BANGOR			KBGR	BANGOR	ME (US)
DP	HSKEL (RNAV)			KPWM	PORTLAND	ME (US)
DP	PORTLAND			KPWM	PORTLAND	ME (US)
DP	MANCHESTER			KMHT	MANCHESTER	NH (US)
DP	PEASE			KPSM	PORTSMOUTH	NH (US)
DP	TANKER			KPSM	PORTSMOUTH	NH (US)
DP	TAKE-OFF MINIMUMS		3	KDDH	BENNINGTON	VT (US)
DP	BURLINGTON			KBTB	BURLINGTON	VT (US)
EN ROUTE	Q822					(US)
EN ROUTE	Q84					(US)
EN ROUTE	T316					(US)
EN ROUTE	V123					(US)
EN ROUTE	V447					(US)
EN ROUTE	V487					(US)
IAP	RNAV (GPS) - A			KAQW	NORTH ADAMS	MA (US)
IAP	LOC RWY 26			KPSF	PITTSFIELD	MA (US)
IAP	RNAV (GPS) RWY 26			KPSF	PITTSFIELD	MA (US)
IAP	ILS OR LOC RWY 1		3	KALB	ALBANY	NY (US)
IAP	ILS OR LOC RWY 19		3	KALB	ALBANY	NY (US)
IAP	ILS RWY 1 (SA CAT II)		3	KALB	ALBANY	NY (US)
IAP	RNAV (GPS) RWY 28			KALB	ALBANY	NY (US)
IAP	RNAV (GPS) Y RWY 19			KALB	ALBANY	NY (US)
IAP	ILS OR LOC RWY 1		1	KGFL	GLENS FALLS	NY (US)
IAP	VOR/DME-A			5B2	SARATOGA SPRINGS	NY (US)
IAP	RNAV (GPS) RWY 22			KSCH	SCHENECTADY	NY (US)
IAP	ILS Y OR LOC Y RWY 19			KRUT	RUTLAND	VT (US)
IAP	ILS Z OR LOC Z RWY 19			KRUT	RUTLAND	VT (US)
IAP	RNAV (GPS) RWY 1			KRUT	RUTLAND	VT (US)
IAP	RNAV (GPS) RWY 1			4V8	WEST DOVER	VT (US)
STAR	STELA			KHFD	HARTFORD	CT (US)
STAR	STELA			KBDL	WINDSOR LOCKS	CT (US)

STAR  
STAR  
STAR  
STAR

STELA  
STELA  
STELA  
CDOGG (RNAV)

KCEF  
KBAF  
KORH  
KPWM

SPRINGFIELD/CHICOPEE  
WESTFIELD/SPRINGFIELD  
WORCESTER  
PORTLAND

MA (US)  
MA (US)  
MA (US)  
ME (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 27

**DATE OF REVISION:** 12/02/2021

**REASON FOR REVISION:**

1. AIRSPACE DOCKET: CHANGED 20-AEA-10 TO 20-ASO-31.
2. FIX USE: REMOVED J222.

9/20/2021: THIS IS A CORRECTED COPY OF THE FORMS APPROVED ON 7/01/2021.  
FIX USE: IAP ILS OR LOC RWY 1 AT KGLF PAT CHANGED FROM 3 TO 1.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A431

**NAME:** TARA MARTINELLI

**APPROVED BY:**

**DATE:** 06/03/2021

**OFFICE:** AJV-A430

**NAME:** LONNIE EVERHART

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: CELTK

STATE: MA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 421559.05N/0700612.33W

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 NM	FAC FEET	MRA	MAA
1	BOSTON	BOS	VOR/DME	H	113.58	097.58	39.82	39.82		8000	45000
2	MARCONI	LFV	VOR/DME	H	004.84	348.84	15.24	15.24		8000	45000

## REMARKS:

BOSTON (FAC 1) AND MARCONI (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM	1, 2		KBED	BEDFORD	MA (US)
DP	BEVERLY	1, 2		KBVY	BEVERLY	MA (US)
DP	CELTG (RNAV)			KBOS	BOSTON	MA (US)
DP	LOGAN	1, 2		KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE	1, 2		KLWM	LAWRENCE	MA (US)
DP	NORWOOD	1, 2		KOWD	NORWOOD	MA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 06/17/2021

## REASON FOR REVISION:

1. REQUIRED CHARTING: UPDATED "CONTROLLER" TO CONTROLLER LOW AND CONTROLLER HIGH.
2. REMARKS: REMOVED "ATC REQUESTS ENROUTE LOW/HIGH CHARTING FOR VECTORING AND AUTOMATION REQUIREMENTS".

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: ANA VEGA

APPROVED BY:

DATE: 03/19/2021

OFFICE: AVJ-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: DUNKK STATE: MA COUNTRY: US ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 420454.15N/0703922.83W 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	BOSTON	BOS	VOR/DME	H	153.96	137.96	22.23	22.23	1700	17500
2	PROVIDENCE	PVD	VOR/DME	H	072.00	058.00	40.74	40.74	3000	17500
3	MARCONI	LFV	VOR/DME	H	294.17	278.17		27.94	1700	17500

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
PVD	VOR/DME	R-072	41	3000	14600

## REMARKS:

BOSTON (FAC 1) AND PROVIDENCE (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
EN ROUTE	V141	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 32			KBOS	BOSTON	MA (US)
IAP	RNAV (GPS) RWY 14			KFMH	FALMOUTH	MA (US)
IAP	RNAV (GPS) RWY 23			KFMH	FALMOUTH	MA (US)
IAP	RNAV (GPS) RWY 32			1B9	MANSFIELD	MA (US)
IAP	ILS OR LOC RWY 7	1, 2		KPVC	PROVINCETOWN	MA (US)
IAP	NDB RWY 25	1, 2		KPVC	PROVINCETOWN	MA (US)
IAP	RNAV (GPS) RWY 07			KPVC	PROVINCETOWN	MA (US)
IAP	RNAV (GPS) RWY 15			KMVY	VINEYARD HAVEN	MA (US)

REQUIRED CHARTING: DP, MILITARY IAP, IAP, AREA, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 19

DATE OF REVISION: 06/17/2021

## REASON FOR REVISION:

1. REQUIRED CHARTING: UPDATED "CONTROLLER" TO CONTROLLER LOW.
2. HOLDING: CANCELLED.
3. REMARKS: REMOVED HOLDING REFERENCES.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: ANA VEGA

APPROVED BY:

DATE: 03/19/2021

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER: CAPE APP CON



# RADIO FIX AND HOLDING DATA RECORD

NAME: HANAA

STATE: NY

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 431152.06N/0733646.17W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

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	NE		WP	047.00	227.00	R	10	18000 38000	17 27
2	NE		WP	030.30	210.30	R	10	17000 38000	17 27

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION
2	265	AAO

## COORDINATES

433624.00N/0733154.00W

## ELEVATION

2851

## ACCURACY CODE

4E

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

## REMARKS:

CHART PATTERN 1 ON ENROUTE HIGH CHART.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
NATIONAL CHOKE POINT RELIEF POINT.  
PATTERN 1 REQUESTED BY ATC.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	HSKEL (RNAV)			KPWM	PORTLAND	ME (US)
EN ROUTE	Q816		1			(US)
STAR	FLOSI (RNAV)		2	KEWR	NEWARK	NJ (US)
STAR	SHAFF		2	KEWR	NEWARK	NJ (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 06/17/2021

## REASON FOR REVISION:

CORRECTED IAP TO DP FOR BEVERLY KBVY FIX USE.  
ADDED CONTROLLER LOW AND CONTROLLER HIGH TO REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: STEVEN WINNER

APPROVED BY:

DATE: 02/19/2021

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON, BVY TOWER, PWM APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: KENNEBUNK VOR/DME

STATE: ME

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 432532.42N/0703648.69W

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	KENNEBUNK	ENE	VOR/DME	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 DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	E	ENE	VOR/DME	082.00	262.00	L	1	2400 6000	4 12
2	W	ENE	VOR/DME	267.54	087.54	R	1	2300 6000	4 5
3	E	ENE	VOR/DME	081.00	261.00	L	1	2000 6000	4 5
4	NE	ENE	VOR/DME	044.00	224.00	L	1 1/2	24000 39000	19 27
5	NE		WP	044.00	224.00	L		16 17000 45000	29 30
6	NE		WP	062.00	242.00	L		4 3000 6000	5 13
7	NE		WP	043.00	223.00	L		16 17000 45000	29 30

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	432218.00N/0704009.00W	578	4E
1	310	AAO	432303.00N/0704709.00W	1126	4E
2	200	AAO	432303.00N/0704709.00W	1126	4E
3	200	AAO	432218.00N/0704009.00W	578	4E
5	265	TOWER (23-000419)	435044.24N/0704540.76W	2549	2C
6	200	AAO	432218.00N/0704009.00W	578	4E
6	310	AAO	432748.00N/0704436.00W	804	4E
7	265	TOWER (23-000419)	435044.24N/0704540.76W	2549	2C

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST  
PAT 3 ATC REQUEST  
PAT 4 ATC REQUEST  
PAT 5 ATC REQUEST  
PAT 6 ATC REQUEST  
PAT 7 ATC REQUEST

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 7	KSFM	SANFORD	ME (US)
6	RNAV (GPS) RWY 6	B19	BIDDEFORD	ME (US)
6	RNAV (GPS) RWY 7	KSFM	SANFORD	ME (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
MAGVAR 17W/1970.  
PAT 5 MAG VAR BOS 15W.  
PAT 7 MAG VAR JFK 13W.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
DP	BANGOR			KBGR	BANGOR	ME (US)
DP	PORTLAND			KPWM	PORTLAND	ME (US)
DP	MANCHESTER			KMHT	MANCHESTER	NH (US)
DP	PEASE			KPSM	PORTSMOUTH	NH (US)
DP	TANKR			KPSM	PORTSMOUTH	NH (US)
EN ROUTE	J55					(US)
EN ROUTE	J573					(US)
EN ROUTE	Q480					(US)
EN ROUTE	Q822					(US)
EN ROUTE	T295					(US)
EN ROUTE	T314					(US)
EN ROUTE	V139					(US)
EN ROUTE	V167					(US)
IAP	ILS OR LOC RWY 4			KLEW	AUBURN/LEWISTON	ME (US)
IAP	HI-ILS Z OR LOC Z RWY 15			KBGR	BANGOR	ME (US)
IAP	HI-VOR/DME OR TACAN RWY 15			KBGR	BANGOR	ME (US)

IAP	HI-VOR/DME OR TACAN RWY 33		KBGR	BANGOR	ME (US)
IAP	RNAV (GPS) RWY 6	6	B19	BIDDEFORD	ME (US)
IAP	VOR RWY 6	2	B19	BIDDEFORD	ME (US)
IAP	ILS OR LOC RWY 1R		KBXM	BRUNSWICK	ME (US)
IAP	ILS OR LOC RWY 11	1	KPWM	PORTLAND	ME (US)
IAP	ILS OR LOC RWY 29	1	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 11 (CAT II - III)	1	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 11 (SA CAT I)	1	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 29 (SA CAT I-II)	1	KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 11		KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 29		KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 36		KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 31		KRCD	ROCKLAND	ME (US)
IAP	ILS OR LOC RWY 7	1	KSFM	SANFORD	ME (US)
IAP	RNAV (GPS) RWY 7	6	KSFM	SANFORD	ME (US)
IAP	VOR RWY 25	3	KSFM	SANFORD	ME (US)
IAP	ILS OR LOC RWY 16		KPSM	PORTSMOUTH	NH (US)
IAP	ILS OR LOC RWY 34		KPSM	PORTSMOUTH	NH (US)
IAP	NDB RWY 33		KDAW	ROCHESTER	NH (US)
STAR	OOSHN (RNAV)	5	KBOS	BOSTON	MA (US)
STAR	PARCH (RNAV)	7	KFRG	FARMINGDALE	NY (US)
STAR	ROBER	4	KFRG	FARMINGDALE	NY (US)
STAR	PARCH (RNAV)	7	KJFK	NEW YORK	NY (US)
STAR	ROBER	4	KJFK	NEW YORK	NY (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 42

**DATE OF REVISION:** 12/02/2021

**REASON FOR REVISION:**

1. REMOVED FIX USE: BETTE, GREKI, HAPIE, AND MERIT.
2. ADDED REQUIRED CHARTING: ENROUTE LOW, ENROUTE HIGH, CONTROLLER LOW AND CONTROLLER HIGH.
3. UPDATED HOLDING PATTERN 2 MINIMUM ALTITUDE FROM 2400 TO 2300.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** BARBARA GORMAN

**APPROVED BY:**

**DATE:** 12/02/2021

**OFFICE:** AJV-A430

**NAME:** LONNIE EVERHART

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** MARCONI VOR/DME      **STATE:** MA      **COUNTRY:** US      **ICAO REGION CODE:** K6  
**LATITUDE/LONGITUDE:** 420101.88N/0700214.04W      **TYPE:**  
**AIRSPACE DOCKET:** 20-ASO-31      **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	MARCONI	LFV	VOR/DME	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	S	LFV	VOR/DME	180.00	360.00	L	1	2000 31000	4 23
2	S		WP	180.00	360.00	L	4	2000 6000	4 6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	420101.00N/0700311.00W	399	2C
1	310	TOWER (25-000161)	414649.10N/0700034.17W	515	2C
2	200	AAO	420106.00N/0700312.00W	397	4E

## REASON FOR NONSTANDARD HOLDING:

PAT 1 PROTECTION OF CONTROL AREA 1142  
 PAT 2 PROTECTION OF CONTROL AREA 1142

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR RWY 6	KHYA	HYANNIS	MA (US)
1	ILS OR LOC RWY 15	KHYA	HYANNIS	MA (US)
1	ILS OR LOC RWY 7 (ALT MISSED)	KPVC	PROVINCETOWN	MA (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 ASSIGNED FACILITY MAGVAR: 16W/1995.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
DP	BANGOR			KBGR	BANGOR	ME (US)
DP	PORTLAND			KPWM	PORTLAND	ME (US)
EN ROUTE	J174					(US)
EN ROUTE	J79					(US)
EN ROUTE	VI67					(US)
IAP	ILS OR LOC RWY 15R			KBOS	BOSTON	MA (US)
IAP	ILS OR LOC RWY 22L			KBOS	BOSTON	MA (US)
IAP	RNAV (GPS) - B			KCQX	CHATHAM	MA (US)
IAP	COPTER ILS Y OR LOC Y RWY 23			KFMH	FALMOUTH	MA (US)
IAP	ILS Z OR LOC Z RWY 23			KFMH	FALMOUTH	MA (US)
IAP	RNAV (GPS) RWY 23			KFMH	FALMOUTH	MA (US)
IAP	RNAV (GPS) RWY 32			KFMH	FALMOUTH	MA (US)
IAP	ILS OR LOC RWY 15		1	KHYA	HYANNIS	MA (US)
IAP	ILS OR LOC RWY 24			KHYA	HYANNIS	MA (US)
IAP	RNAV (GPS) RWY 15		2	KHYA	HYANNIS	MA (US)
IAP	RNAV (GPS) RWY 24			KHYA	HYANNIS	MA (US)
IAP	RNAV (GPS) RWY 33			KHYA	HYANNIS	MA (US)
IAP	VOR RWY 6		1	KHYA	HYANNIS	MA (US)
IAP	RNAV (GPS) RWY 24			KACK	NANTUCKET	MA (US)
IAP	RNAV (GPS) RWY 33			KACK	NANTUCKET	MA (US)
IAP	ILS OR LOC RWY 6			KPYM	PLYMOUTH	MA (US)
IAP	RNAV (GPS) RWY 24			KPYM	PLYMOUTH	MA (US)
IAP	RNAV (GPS) RWY 33			KPYM	PLYMOUTH	MA (US)
IAP	RNAV (GPS) RWY 6			KPYM	PLYMOUTH	MA (US)
IAP	ILS OR LOC RWY 7 (ALT MISSED)		1	KPVC	PROVINCETOWN	MA (US)
IAP	NDB RWY 25			KPVC	PROVINCETOWN	MA (US)

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

**COMPULSORY REPORTING POINT:** NO

RECORD REVISION NUMBER: 18

DATE OF REVISION: 12/02/2021

**REASON FOR REVISION:**

1. ADDED AIRSPACE DOCKET NUMBER 20-ASO-31.
2. FIX USE: REMOVED J150.

**INITIATED BY:****DATE:****ORGANIZATION:****NAME:****OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A431

**NAME:** TARA MARTINELLI**APPROVED BY:****DATE:** 05/28/2021**OFFICE:** AJV-A430**NAME:** LONNIE EVERHART**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** NANTUCKET VOR/DME      **STATE:** MA      **COUNTRY:** US      **ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 411654.79N/0700136.16W      **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	MRA	MAA
1	NANTUCKET	ACK	VOR/DME	H						45000

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

**PATTERNS:**

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NE	ACK	VOR/DME	061.00	241.00	R	1		1800	6000	4	5

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	411657.00N/0695754.00W	299	4D
1	310	TOWER (25-000194)	411648.00N/0701003.00W	478	5D

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN.

**PROCEDURES REQUIRING CLIMB-IN-HOLD:**

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 6	KACK	NANTUCKET	MA (US)

**REMARKS:**

PRECIPITIOUS TERRAIN EVALUATION COMPLETED.  
ASSIGNED FACILITY MAGVAR: W15/1980.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	BRUWN (RNAV)			KBOS	BOSTON	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
DP	SKORR (RNAV)			KJFK	NEW YORK	NY (US)
EN ROUTE	J585					(US)
EN ROUTE	J68					(US)
EN ROUTE	Q430					(US)
EN ROUTE	T216					(US)
EN ROUTE	V141					(US)
EN ROUTE	V146					(US)
EN ROUTE	V34					(US)
EN ROUTE	V46					(US)
EN ROUTE	V58					(US)
IAP	NDB - A			KCQX	CHATHAM	MA (US)
IAP	RNAV (GPS) - B			KCQX	CHATHAM	MA (US)
IAP	COPTER ILS Y OR LOC Y RWY 23			KFMH	FALMOUTH	MA (US)
IAP	ILS OR LOC RWY 32			KFMH	FALMOUTH	MA (US)
IAP	ILS Z OR LOC Z RWY 23			KFMH	FALMOUTH	MA (US)
IAP	RNAV (GPS) RWY 23			KFMH	FALMOUTH	MA (US)
IAP	ILS OR LOC RWY 24			KHYA	HYANNIS	MA (US)
IAP	RNAV (GPS) RWY 33			KHYA	HYANNIS	MA (US)
IAP	RNAV (GPS) RWY 6			KHYA	HYANNIS	MA (US)
IAP	VOR RWY 6			KHYA	HYANNIS	MA (US)
IAP	GREAT POINT VISUAL RWY 24			KACK	NANTUCKET	MA (US)
IAP	ILS OR LOC RWY 24			KACK	NANTUCKET	MA (US)
IAP	ILS OR LOC RWY 6		1	KACK	NANTUCKET	MA (US)
IAP	RNAV (GPS) RWY 24			KACK	NANTUCKET	MA (US)
IAP	RNAV (GPS) RWY 33			KACK	NANTUCKET	MA (US)
IAP	RNAV (GPS) RWY 6			KACK	NANTUCKET	MA (US)
IAP	TUCKERNUCK VISUAL RWY 6			KACK	NANTUCKET	MA (US)
IAP	VOR RWY 24			KACK	NANTUCKET	MA (US)
IAP	ILS OR LOC RWY 6			KPYM	PLYMOUTH	MA (US)
IAP	ILS OR LOC RWY 24			KMVY	VINEYARD HAVEN	MA (US)
IAP	RNAV (GPS) RWY 33			KMVY	VINEYARD HAVEN	MA (US)
IAP	VOR RWY 6			KMVY	VINEYARD HAVEN	MA (US)
STAR	NEWBE			KACK	NANTUCKET	MA (US)
STAR	ROBER			KFRG	FARMINGDALE	NY (US)
STAR	ROBER			KJFK	NEW YORK	NY (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 18

**DATE OF REVISION:** 12/02/2021

**REASON FOR REVISION:**

1. REMOVED FIX USE: BETTE, GREKI, HAPIE, AND MERIT.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** BARBARA GORMAN

**APPROVED BY:**

**DATE:** 12/02/2021

**OFFICE:** AJV-A430

**NAME:** LONNIE EVERHART

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** NELIE **STATE:** CT **COUNTRY:** US **ICAO REGION CODE:** K6  
**LATITUDE/LONGITUDE:** 415627.64N/0724118.88W **TYPE:** WP, INT, DME  
**AIRSPACE DOCKET:** 19-ASO-18 **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	BOSTON	BOS	VOR/DME	H	268.34	252.34	79.84	79.84		18000	45000
2	HAMPTON	HTO	VORTAC	H	357.81	344.81		63.55		18000	45000

**REMARKS:**

BOSTON (FAC 1) AND HAMPTON (FAC 2) USED TO ESTABLISH FIX COORDINATES.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	BLZZR (RNAV)			KBOS	BOSTON	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	PATSS (RNAV)			KBOS	BOSTON	MA (US)
DP	REVSS (RNAV)			KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NUBLE (RNAV)			KPWM	PORTLAND	ME (US)
DP	PPORT (RNAV)			KMHT	MANCHESTER	NH (US)
DP	ALBANY			KALB	ALBANY	NY (US)
EN ROUTE	Q75					(US)
EN ROUTE	T212					(US)
EN ROUTE	T255					(US)
EN ROUTE	T300					(US)
STAR	WIPOR (RNAV)			KEWB	NEW BEDFORD	MA (US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)
STAR	NELIE (RNAV)			KISP	NEW YORK	NY (US)
STAR	NELIE (RNAV)			KFOK	WESTHAMPTON BEACH	NY (US)
STAR	WIPOR (RNAV)			KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)			KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)			KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)			KPVD	PROVIDENCE	RI (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 11 **DATE OF REVISION:** 07/16/2020

**REASON FOR REVISION:**

AMENDED AIRSPACE DOCKET FROM "19-AEA-9" TO "19-ASO-18".  
DELETED "J75" FROM FIX USE.

**INITIATED BY:** **DATE:** **ORGANIZATION:** **NAME:**  
**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A432 **NAME:** KELLY CARLSON  
**APPROVED BY:** **DATE:** **OFFICE:** AJV-A430 **NAME:** GEORGE DAVIS

**SIGNATURE:**

**DISTRIBUTION:** NFDC  
 FPO: EST  
 ARTCC: ZBW  
 ATC FACILITY: BOS APP CON  
 OTHER:



# RADIO FIX AND HOLDING DATA RECORD

**NAME:** PATSS

**STATE:** MA

**COUNTRY:** US

**ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 420520.66N/0714239.03W

**TYPE:** WP, 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	BOSTON	BOS	VOR/DME	H	259.65	243.65	35.96	35.96		12000	45000

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM	1		KBED	BEDFORD	MA (US)
DP	BEVERLY	1		KBVY	BEVERLY	MA (US)
DP	LOGAN	1		KBOS	BOSTON	MA (US)
DP	PATSS (RNAV)			KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE	1		KLWM	LAWRENCE	MA (US)
DP	NORWOOD	1		KOWD	NORWOOD	MA (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2

**DATE OF REVISION:** 06/17/2021

**REASON FOR REVISION:**

1. REQUIRED CHARTING: UPDATED "CONTROLLER" TO CONTROLLER LOW AND CONTROLLER HIGH.
2. REMARKS: REMOVED.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A422

**NAME:** ANA VEGA

**APPROVED BY:**

**DATE:** 03/19/2021

**OFFICE:** AJV-A420

**NAME:** MARLON ROBINSON

**SIGNATURE:**

**DISTRIBUTION:**

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** REVSS

**STATE:** MA

**COUNTRY:** US

**ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 422043.57N/0714837.07W

**TYPE:** WP, 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	BOSTON	BOS	VOR/DME	H	285.15	269.15	36.52	36.52		14000	45000

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSOM	1		KBED	BEDFORD	MA (US)
DP	BEVERLY	1		KBVY	BEVERLY	MA (US)
DP	LOGAN	1		KBOS	BOSTON	MA (US)
DP	REVSS (RNAV)			KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE	1		KLWM	LAWRENCE	MA (US)
DP	NORWOOD	1		KOWD	NORWOOD	MA (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1

**DATE OF REVISION:** 06/17/2021

**REASON FOR REVISION:**

1. REQUIRED CHARTING: ADDED CONTROLLER LOW AND CONTROLLER HIGH.
2. REMARKS: REMOVED.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A422

**NAME:** ANA VEGA

**APPROVED BY:**

**DATE:** 03/19/2021

**OFFICE:** AJV-A420

**NAME:** MARLON ROBINSON

**SIGNATURE:**

**DISTRIBUTION:**

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: BOS APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: SYRACUSE VORTAC      STATE: NY      COUNTRY: US      ICAO REGION CODE: K6  
 LATITUDE/LONGITUDE: 430937.87N/0761216.41W      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	SYRACUSE	SYR	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	NW	SYR	VORTAC	311.30	131.30	R	1	2000 10000	5 9
2	NW	SYR	VORTAC	294.00	114.00	L	1	3000 10000	6 13

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (36-001250)	431250.58N/0762345.65W	955	1A
2	230	TOWER (36-001250)	431250.58N/0762345.65W	955	1A
2	310	AAO	430418.00N/0762230.00W	1021	4E

## REASON FOR NONSTANDARD HOLDING:

PAT 2 AIR TRAFFIC REQUEST AND NOISE ABATEMENT

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	ILS OR LOC RWY 28	KSYR	SYRACUSE	NY (US)
2	ILS RWY 28 (SA CAT I)	KSYR	SYRACUSE	NY (US)
2	ILS RWY 28 (CAT II)	KSYR	SYRACUSE	NY (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 PAT 1 AND 2 EVALUATED AT 230 KIAS TO SUPPORT MILITARY OPERATIONS.  
 ASSIGNED FACILITY MAGVAR: 11W (1980).

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
DP	BANGOR			KBGR	BANGOR	ME (US)
DP	HSKEL (RNAV)			KPWM	PORTLAND	ME (US)
DP	PORTLAND			KPWM	PORTLAND	ME (US)
DP	ALBANY			KALB	ALBANY	NY (US)
DP	BUFFALO			KBUF	BUFFALO	NY (US)
DP	XEROX			KROC	ROCHESTER	NY (US)
DP	SYRACUSE			KSYR	SYRACUSE	NY (US)
DP	BURLINGTON			KBTV	BURLINGTON	VT (US)
EN ROUTE	J59					(US)
EN ROUTE	Q812					(US)
EN ROUTE	Q844					(US)
EN ROUTE	T391					(US)
EN ROUTE	T608					(US)
EN ROUTE	T634					(US)
EN ROUTE	V153					(US)
EN ROUTE	V29					(US)
EN ROUTE	V35					(US)
EN ROUTE	V423					(US)
EN ROUTE	V483					(US)
EN ROUTE	V84					(US)
IAP	ILS OR LOC RWY 5			KBUF	BUFFALO	NY (US)
IAP	ILS OR LOC RWY 33			KFZY	FULTON	NY (US)
IAP	RNAV (GPS) RWY 15			KRME	ROME	NY (US)
IAP	VOR/DME RWY 15			KRME	ROME	NY (US)
IAP	ILS OR LOC RWY 10			KSYR	SYRACUSE	NY (US)
IAP	ILS OR LOC RWY 28		2	KSYR	SYRACUSE	NY (US)
IAP	ILS RWY 28 (CAT II)		2	KSYR	SYRACUSE	NY (US)
IAP	ILS RWY 28 (SA CAT I)		2	KSYR	SYRACUSE	NY (US)
IAP	RNAV (RNP) Y RWY 28			KSYR	SYRACUSE	NY (US)
IAP	TACAN RWY 33			KSYR	SYRACUSE	NY (US)
IAP	VOR RWY 15		1	KSYR	SYRACUSE	NY (US)
IAP	ILS OR LOC RWY 7			KART	WATERTOWN	NY (US)
IAP	VOR RWY 7			KART	WATERTOWN	NY (US)

STAR	STELA	KHFD	HARTFORD	CT (US)
STAR	STELA	KBDL	WINDSOR LOCKS	CT (US)
STAR	STELA	KCEF	SPRINGFIELD/CHICOPEE	MA (US)
STAR	STELA	KBAF	WESTFIELD/SPRINGFIELD	MA (US)
STAR	STELA	KORH	WORCESTER	MA (US)
STAR	SHAFF	KEWR	NEWARK	NJ (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 21

**DATE OF REVISION:** 12/02/2021

**REASON FOR REVISION:**

1. REMOVED AIRSPACE DOCKET NUMBER 20-AEA-10.
2. FIX USE: REMOVED VOR OR GPS-A AT 6B9.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A431

**NAME:** TARA MARTINELLI

**APPROVED BY:**

**DATE:** 12/02/2021

**OFFICE:** AJV-A430

**NAME:** LONNIE EVERHART

**SIGNATURE:**