

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CHARLESTON VORTAC      **STATE:** SC      **COUNTRY:** US      **ICAO REGION CODE:** K7  
**LATITUDE/LONGITUDE:** 325339.55N/0800216.13W      **TYPE:**  
**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	CHARLESTON	CHS	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	W	CHS	VORTAC	274.00	094.00	R	1	3000 14000	4 10
2	N	CHS	VORTAC	357.00	177.00	R	1	3000 37000	4 26

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	STACK (45-000456)	325355.00N/0795759.00W	422	3C
2	200	TOWER (45-000533)	330025.00N/0800515.00W	396	5D

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERNS.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 HOLDING PATTERN 2 FOR ATC USE.  
 CHS MAGVAR 1985/W05

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	JACKSONVILLE			KJAX	JACKSONVILLE	FL (US)
DP	PACKK			KRDU	RALEIGH/DURHAM	NC (US)
EN ROUTE	AR12					(US)
EN ROUTE	AR25					(US)
EN ROUTE	AR7					(US)
EN ROUTE	J121					(US)
EN ROUTE	J174					(US)
EN ROUTE	J55					(US)
EN ROUTE	J79					(US)
EN ROUTE	V1					(US)
EN ROUTE	V18					(US)
EN ROUTE	V311					(US)
EN ROUTE	V417					(US)
EN ROUTE	V437					(US)
EN ROUTE	V53					(US)
IAP	ILS OR LOC RWY 1			KSAV	SAVANNAH	GA (US)
IAP	ILS OR LOC RWY 10			KSAV	SAVANNAH	GA (US)
IAP	ILS RWY 10 (SA CAT I-II)			KSAV	SAVANNAH	GA (US)
IAP	VOR/DME OR TACAN RWY 1			KSAV	SAVANNAH	GA (US)
IAP	VOR/DME-A			KSAV	SAVANNAH	GA (US)
IAP	HI-VOR/DME OR TACAN RWY 15			KCHS	CHARLESTON	SC (US)
IAP	ILS OR LOC RWY 15			KCHS	CHARLESTON	SC (US)
IAP	ILS OR LOC/DME RWY 33			KCHS	CHARLESTON	SC (US)
IAP	ILS RWY 15 (CAT II)			KCHS	CHARLESTON	SC (US)
IAP	ILS RWY 15 (SA CAT I)			KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 15			KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 21			KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 3			KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 33			KCHS	CHARLESTON	SC (US)
IAP	VOR/DME OR TACAN RWY 15			KCHS	CHARLESTON	SC (US)
IAP	VOR/DME OR TACAN RWY 21			KCHS	CHARLESTON	SC (US)
IAP	VOR/DME OR TACAN RWY 3			KCHS	CHARLESTON	SC (US)
IAP	VOR/DME OR TACAN RWY 33			KCHS	CHARLESTON	SC (US)
IAP	ILS OR LOC RWY 9			KJZI	CHARLESTON	SC (US)
IAP	RNAV (GPS) RWY 27			KJZI	CHARLESTON	SC (US)
IAP	RNAV (GPS) RWY 9			KJZI	CHARLESTON	SC (US)
IAP	LOC RWY 21			KHXD	HILTON HEAD ISLAND	SC (US)
IAP	RNAV (GPS) RWY 5			KMKS	MONCK'S CORNER	SC (US)
IAP	VOR/DME-A			KMKS	MONCK'S CORNER	SC (US)
IAP	VOR/DME-A		1	KLRO	MOUNT PLEASANT	SC (US)
IAP	NDB RWY 6			KDYB	SUMMERVILLE	SC (US)
IAP	ILS Y OR LOC Y RWY 23			KRBW	WALTERBORO	SC (US)
IAP	RNAV (GPS) RWY 35			KRBW	WALTERBORO	SC (US)
STAR	STUGE			KAGS	AUGUSTA	GA (US)
STAR	STOCR (RNAV)			KCLT	CHARLOTTE	NC (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:** 16

**DATE OF REVISION:** 07/16/2020

**REASON FOR REVISION:**

ADDED DOCKET NUMBER 19-ASO-18 - DELETES J40  
FIX USE: REMOVED J40.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** ANTHONY KACZKA

**APPROVED BY:**

**DATE:**

**OFFICE:** AJV-A430

**NAME:** GEORGE DAVIS

**SIGNATURE:**

**DISTRIBUTION:**

**NFDC**

**FPO: EST**

**ARTCC: ZJX**

**ATC FACILITY: CHS APP CON**

**OTHER: HQ AMC**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CAVUB

**STATE:** SC

**COUNTRY:** US

**ICAO REGION CODE:** K7

**LATITUDE/LONGITUDE:** 324825.19N/0800514.64W

**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 03

**FAC**

**PAT**

**AIRPORT IDENT**  
KCHS

**CITY**  
CHARLESTON

**STATE**  
SC (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2

**DATE OF REVISION:** 08/25/2011

**REASON FOR REVISION:**

REMOVED FAC 1

UPDATED FIX USE

UPDATED LAT LONG: FIX MOVED 446.04 FT SOUTHWEST

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 03/08/2011

**OFFICE:** AJV-352

**NAME:** DONALD SMITH (CHRISTOPHER COX)

**APPROVED BY:**

**DATE:** 07/08/2011

**OFFICE:** AJV-352

**NAME:** DARRYEL ADAMS

**SIGNATURE:**

**DISTRIBUTION:**

**NFDC**

**FPO:** EST

**ARTCC:** ZJX

**ATC FACILITY:** CHS APP CON

**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: DDENA

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 324108.80N/0802038.88W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE  
STAR  
STAR

USE TITLE  
BAGGY (RNAV)  
BAGGY (RNAV)

FAC PAT

AIRPORT IDENT  
KCHS  
KJZI

CITY  
CHARLESTON  
CHARLESTON

STATE  
SC (US)  
SC (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/05/2020

**REASON FOR REVISION:**

1. REMOVED RNAV (GPS) Y RWYS 3, 15, 21, 33 FROM FIX USE.
2. REMOVED IAP FROM REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: BARBARA GORMAN

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: GEORGE DAVIS

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZJX  
ATC FACILITY: CHS APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: GMSTR

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 324354.84N/0793040.40W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 15			KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 21			KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 3			KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 33			KCHS	CHARLESTON	SC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 01/30/2020

**REASON FOR REVISION:**

REMOVED GMSTR STAR IN TO KCHS AND MKNZI STAR IN TO KCHS AND KJZI  
REMOVED STAR FROM REQUIRED CHARTING

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: ROSE BOONE-WALT

APPROVED BY:

DATE: 10/16/2019

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZJX  
ATC FACILITY: CHS APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: HAXOL

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 324508.12N/0801614.55W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

FIX USE:

USE TYPE  
IAP

USE TITLE  
RNAV (GPS) Y RWY 03

FAC

PAT

AIRPORT IDENT  
KCHS

CITY  
CHARLESTON

STATE  
SC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/25/2011

REASON FOR REVISION:

1. FAC 1 REMOVED
2. PAT 1 REMOVED
3. FIX USE UPDATED
4. LAT LONG UPDATED: MOVED 2.14 NM WEST

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 03/08/2011

OFFICE: AJV-352

NAME: DONALD SMITH (CHRISTOPHER COX)

APPROVED BY:

DATE: 07/08/2011

OFFICE: AJV-352

NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZJX  
ATC FACILITY: CHS APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: LIMDE

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 323910.26N/0800040.04W

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 03

FAC

PAT

AIRPORT IDENT  
KCHS

CITY  
CHARLESTON

STATE  
SC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/25/2011

REASON FOR REVISION:

1. UPDATED FIX USE
2. UPDATE FIX LAT/LONG: FIX MOVED 2.37 NM SE
3. REMOVED FAC 1

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 03/08/2011

OFFICE: AJV-352

NAME: DONALD SMITH (CHRISTOPHER COX)

APPROVED BY:

DATE: 07/08/2011

OFFICE: AJV-352

NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZJX  
ATC FACILITY: CHS APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: SHRMP

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 324243.15N/0795346.24W

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 NM	FAC FEET	MRA	MAA
1	CHARLESTON	I-CCI	LOC		154.42	147.42		14.54		3000	4500
2	CHARLESTON	CHS	VORTAC	H	151.70	146.70	13.06	13.06		3000	6000

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SE	I-CCI	LOC	154.42	334.42	R	1		3000	4500	8	9
2	SE		WP	154.49	334.49	R		4	3000	6000	5	6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	TOWER (45-000004)	324745.00N/0795026.00W	1049	3C
2	200	TOWER (45-000138)	324717.00N/0795059.00W	870	1D

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

PRIOR COORDINATION REQUIRED WITH ZJX PRIOR TO HOLDING OVER W-133 AND W-134  
PRECIPITIOUS TERRAIN EVALUATION COMPLETE.  
FIX TYPE: RADAR, ATC REQUEST.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC/DME RWY 33	1, 2	1	KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 03			KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 15		2	KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 33		2	KCHS	CHARLESTON	SC (US)
IAP	RNAV (RNP) Z RWY 15		2	KCHS	CHARLESTON	SC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 07/16/2020

## REASON FOR REVISION:

1. UPDATED PAT 2 OBSTACLE ALTITUDE FROM 871 TO 870.  
2. REMOVED REQUIRED CHARTING: MILITARY IAP.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: BARBARA GORMAN

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: GEORGE DAVIS

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZJX  
ATC FACILITY: CHS APP CON  
OTHER: