

RADIO FIX AND HOLDING DATA RECORD

NAME: AARES

STATE: HI

COUNTRY: US

ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 205955.00N/1570542.00W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
DP
DP

USE TITLE
NPLII (RNAV)
KALAE (RNAV)

FAC PAT

AIRPORT IDENT
PHOG
PHMK

CITY
KAHULUI
KAUNAKAKAI

STATE
HI (US)
HI (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 07/16/2020

REASON FOR REVISION:

1. ADDED DP KALAE (RNAV) TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A430

NAME: DEXTER SWEETING

APPROVED BY:

DATE:

OFFICE:

NAME: GEORGE DAVIS

SIGNATURE: *Digitally signed by*
DONALD H LANIER

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZHN
ATC FACILITY: HNL, HCF APP CON
OTHER:
Dec 16, 2020

QUALITY
45
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ALANA

STATE: HI

COUNTRY: US

ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 210431.18N/1575620.71W

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 FEET	MAA
1	HONOLULU	HNL	VORTAC	H	171.00	182.00	13.94	13.94	3000	45000
2	MOLOKAI	MKK	VORTAC	H	254.18	265.18	43.45	43.45	3000	45000
3	LANAI	LNK	VORTAC	H	278.00	289.00		57.58	5000	45000
4	KOKO HEAD	CKH	VORTAC	H	218.45	229.45	17.44	17.44	3000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
MKK	VORTAC	R-254	44	3000	16000
LNK	VORTAC	R-278	58	5000	15800

FIX RESTRICTIONS:

MRA V21 5000 SOUTHEAST BOUND
MRA V16 5000 SOUTHEAST BOUND
MRA V16 5000 NORTHWEST BOUND

HOLDING:

HOLDING TYPE OF ACTION:

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	HNL	VORTAC	171.00	351.00	R	1		3000	14000	6	15
2	S		WP	171.00	351.00	R		4	3000	14000	5	13
3	SW	CKH	VORTAC	218.45	038.45	R	1		3000	14000	6	15

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	SHIP	210431.00N/1575620.00W	208	2C
1	310	SHIP	210431.00N/1575620.00W	208	2C
2	200	SHIP	210431.00N/1575620.00W	208	2C
2	310	SHIP	210431.00N/1575620.00W	208	2C
3	200	SHIP	210431.00N/1575620.00W	208	2C
3	310	SHIP	210431.00N/1575620.00W	208	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS RWY 8L	PHNL	HONOLULU	HI (US)
1	LOC RWY 8L	PHNL	HONOLULU	HI (US)
2	RNAV (GPS) Y RWY 8L	PHNL	HONOLULU	HI (US)
3	ILS RWY 8L (ALT MISSED)	PHNL	HONOLULU	HI (US)
3	LOC RWY 8L (ALT MISSED)	PHNL	HONOLULU	HI (US)

REMARKS:

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALANA	1, 2		PHNL	HONOLULU	HI (US)
DP	BANZI (RNAV)			PHNL	HONOLULU	HI (US)
DP	HONOLULU	1		PHNL	HONOLULU	HI (US)
DP	PIPLN (RNAV)			PHNL	HONOLULU	HI (US)
DP	KALAE (RNAV)			PHMK	KAUNAKAKAI	HI (US)
DP	MAULA (RNAV)			PHMK	KAUNAKAKAI	HI (US)
EN ROUTE	V16					HI (US)
EN ROUTE	V21					HI (US)
EN ROUTE	V8					HI (US)
IAP	ILS RWY 8L	1, 2	1	PHNL	HONOLULU	HI (US)
IAP	ILS RWY 8L (ALT MISSED)	3, 4	3	PHNL	HONOLULU	HI (US)
IAP	ILS Y RWY 4R	1, 2	1	PHNL	HONOLULU	HI (US)
IAP	ILS Y RWY 4R (ALT MISSED)	4	3	PHNL	HONOLULU	HI (US)
IAP	ILS Z RWY 4R	1, 2	1	PHNL	HONOLULU	HI (US)
IAP	ILS Z RWY 4R (ALT MISSED)	4	3	PHNL	HONOLULU	HI (US)
IAP	LDA RWY 26L	1, 2	1	PHNL	HONOLULU	HI (US)
IAP	LOC RWY 4R	1, 2	1, 3	PHNL	HONOLULU	HI (US)
IAP	LOC RWY 4R (ALT MISSED)	1, 3	3	PHNL	HONOLULU	HI (US)
IAP	LOC RWY 8L	1, 2	1	PHNL	HONOLULU	HI (US)
IAP	LOC RWY 8L (ALT MISSED)	3, 4	3	PHNL	HONOLULU	HI (US)
IAP	RNAV (GPS) RWY 4L		2	PHNL	HONOLULU	HI (US)

QUALITY
45
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IAP	RNAV (GPS) RWY 8R	2	PHNL	HONOLULU	HI (US)
IAP	RNAV (GPS) Y RWY 4R	2	PHNL	HONOLULU	HI (US)
IAP	RNAV (GPS) Y RWY 8L	2	PHNL	HONOLULU	HI (US)
IAP	RNAV (RNP) RWY 26L	2	PHNL	HONOLULU	HI (US)
IAP	RNAV (RNP) Z RWY 4R	2	PHNL	HONOLULU	HI (US)
IAP	RNAV (RNP) Z RWY 8L	2	PHNL	HONOLULU	HI (US)
IAP	VOR OR TACAN -A	1, 2	1	PHNL	HONOLULU
IAP	VOR OR TACAN -B	1, 2	1	PHNL	HONOLULU
IAP	VOR OR TACAN RWY 4R	1, 2	1	PHNL	HONOLULU
IAP	RNAV (GPS)-C		2	PHHI	WAHIAWA
IAP	VOR OR TACAN-B	1, 2	1	PHHI	WAHIAWA
STAR	JULLE			PHNL	HONOLULU
STAR	MAKAH (RNAV)			PHNL	HONOLULU

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 07/16/2020

REASON FOR REVISION:

1. ADDED DP MAULA (RNAV) AND KALAE (RNAV) TO FIX USE.
2. ADDED DP TO REQUIRED CHARTING.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** DEXTER SWEETING

APPROVED BY: **DATE:** **OFFICE:** AJV-A430 **NAME:** GEORGE DAVIS

SIGNATURE: *Digitally signed by*

DONALD H LANIER

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZHN
ATC FACILITY: HCF APP CON
OTHER: USAASA

Dec 16, 2020

QUALITY
45
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: EELIO

STATE: HI

COUNTRY: US

ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 204235.03N/1564005.11W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:

USE TYPE

DP
DP

USE TITLE

KALAE (RNAV)
MAULA (RNAV)

FAC

PAT

AIRPORT IDENT

PHMK
PHMK

CITY

KAUNAKAKAI
KAUNAKAKAI

STATE

HI (US)
HI (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/16/2020

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: DEXTER SWEETING

APPROVED BY:

DATE:

OFFICE: AJV-A431

NAME: GEORGE DAVIS

SIGNATURE:

Digitally signed by

DONALD H LANIER

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZHN

ATC FACILITY: HCF

OTHER:

Dec 16, 2020

QUALITY
45
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HLAWA

STATE: HI

COUNTRY: US

ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 205456.76N/1565320.92W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:

USE TYPE

DP

DP

USE TITLE

KALAE (RNAV)

MAULA (RNAV)

FAC

PAT

AIRPORT IDENT

PHMK

PHMK

CITY

KAUNAKAKAI

KAUNAKAKAI

STATE

HI (US)

HI (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/16/2020

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: DEXTER SWEETING

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: GEORGE DAVIS

SIGNATURE:

Digitally signed by

DONALD H LANIER

Dec 16, 2020

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZHN

ATC FACILITY: HCF

OTHER:

QUALITY
45
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HLONO

STATE: HI

COUNTRY: US

ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 210218.48N/1571453.85W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
DP

USE TITLE
KALAE (RNAV)

FAC PAT

AIRPORT IDENT CITY
PHMK KAUNAKAKAI

STATE
HI (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/16/2020

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: DEXTER SWEETING

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: GEORGE DAVIS

SIGNATURE:

Digitally signed by

DONALD H LANIER

Dec 16, 2020

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZHN
ATC FACILITY: HCF
OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: KALAE

STATE: HI

COUNTRY: US

ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 210330.94N/1570815.38W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
DP

USE TITLE
KALAE (RNAV)

FAC

PAT

AIRPORT IDENT
PHMK

CITY
KAUNAKAKAI

STATE
HI (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/16/2020

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: DEXTER SWEETING

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: GEORGE DAVIS

SIGNATURE:

Digitally signed by
DONALD H LANIER

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZHN
ATC FACILITY: HCF
OTHER:

Dec 16, 2020

QUALITY
45
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LOKIE STATE: HI COUNTRY: US ICAO REGION CODE: PH
 LATITUDE/LONGITUDE: 210726.26N/1572042.18W 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	MOLOKAI	MKK	VORTAC	H	254.18	265.18	10.00	10.00	2000	45000
2	LANAI	LNK	VORTAC	H	304.56	315.56		30.13	2000	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	HOLDING ALTITUDES MIN DME	MAX	TEMPLATES MIN	MAX
1	E	MKK	VORTAC	254.18	254.18	R	1	4000	14000	8	12

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	310817.00N/1570956.00W	1643	2C

HOLDING RESTRICTIONS:
 HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

MOLOKAI (FAC 1) AND LANAI (FAC 2) USED TO ESTABLISH FIX COORDINATES
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 HOLDING PATTERN IS FOR ATC USE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PALAY SID	1, 2		PHNL	HONOLULU	HI (US)
DP	HAPAI SID	1, 2		PHMK	KAUNAKAKAI	HI (US)
DP	KALAE (RNAV)			PHMK	KAUNAKAKAI	HI (US)
DP	MAULA (RNAV)			PHMK	KAUNAKAKAI	HI (US)
EN ROUTE	V8	1, 2				HI (US)
IAP	RNAV (GPS)-B			PHLU	KALAUPAPA	HI (US)
IAP	VOR OR TACAN-A	1, 2		PHMK	KAUNAKAKAI	HI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 DATE OF REVISION: 02/25/2021

REASON FOR REVISION:

1. ADDED DP KALAE (RNAV) AND MAULA (RNAV) TO FIX USE.

12/16/2020: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/04/2020.

1. ADDED EN ROUTE HIGH TO REQUIRED CHARTING.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A431	NAME: DEXTER SWEETING
APPROVED BY:	DATE:	OFFICE: AJV-A430	NAME: GEORGE DAVIS
	SIGNATURE:	Digitally signed by DONALD H LANIER	
DISTRIBUTION:	NFDC FPO: SEA ARTCC: ZHN ATC FACILITY: HCF OTHER:	Dec 16, 2020	

QUALITY
45
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SAKKI

STATE: HI

COUNTRY: US

ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 205554.31N/1572918.03W

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	HONOLULU	I-EPC	LOC/DME		124.00	135.00	33.32	33.32	4000	6000
2	LANAI	LNK	VORTAC	H	278.00	289.00	30.86	30.86	4000	17500
3	MOLOKAI	MKK	VORTAC	H	224.65	235.65	21.83	21.83	4000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-EPC	LOC/DME	R-124	34	4000	6000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING ALTITUDES MIN DME	MAX	TEMPLATES MIN	MAX
1	E	LNK	VORTAC	278.00	278.00	L	1	4000	14000	6	12

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	208' SHIP	205554.43N/1572918.03W	208	4D

REASON FOR NONSTANDARD HOLDING:

PAT 1 TRAFFIC FLOW

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

HONOLULU (FAC 1) AND MOLOKAI (FAC 3) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HIAKA (RNAV)			PHOG	KAHULUI	HI (US)
DP	NPLII (RNAV)			PHOG	KAHULUI	HI (US)
DP	PUHEE (RNAV)			PHOG	KAHULUI	HI (US)
DP	KALAE (RNAV)			PHMK	KAUNAKAKAI	HI (US)
DP	MAULA (RNAV)			PHMK	KAUNAKAKAI	HI (US)
EN ROUTE	V16-21	2, 3				(US)
IAP	LDA RWY 26L	1, 2, 3		PHNL	HONOLULU	HI (US)
IAP	RNAV (RNP) RWY 26L			PHNL	HONOLULU	HI (US)
STAR	JULLE	2, 3		PHNL	HONOLULU	HI (US)
STAR	MAKAH (RNAV)			PHNL	HONOLULU	HI (US)
STAR	SAKKI	1, 2, 3	1	PHNL	HONOLULU	HI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 07/16/2020

REASON FOR REVISION:

1. ADDED DP KALAE (RNAV) AND MAULA (RANV) TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: DEXTER SWEETING

APPROVED BY:

DATE:

OFFICE: AVJ-A430

NAME: GEORGE DAVIS

SIGNATURE:

Digitally signed by

DONALD H LANIER

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZHN

ATC FACILITY: HNL, HCF APP CON

OTHER:

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