

RADIO FIX AND HOLDING DATA RECORD

NAME: CAMPS STATE: HI COUNTRY: US ICAO REGION CODE: PH
 LATITUDE/LONGITUDE: 203954.94N/1563609.39W 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	KAHULUI	I-OGG	LOC/DME		203.97	214.97	17.65	17.64	3000	14000
2	LANAI	LNJ	VORTAC	H	095.00	106.00	21.44	21.44	3000	17500
3	MAUI	OGG	VORTAC	H	204.34	215.34	17.67	17.67	3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-OGG	LOC/DME	R-024	18	3000	14000

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	W	LNJ	VORTAC	095.00	095.00	L	1	5000 14000	6 11
2	SW	I-OGG	LOC/DME	203.97	023.97	R	1	3000 17500	5 17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	203354.00N/1563512.00W	1641	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 AIR TRAFFIC.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

LANAI (FAC 2) AND MAUI (FAC 3) USED TO ESTABLISH FIX COORDINATES
 I-OGG DME COORDINATES: 205427.37N-1562523.81W.
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V2	2, 3	1			(US)
EN ROUTE	V21	2, 3	1			(US)
IAP	ILS OR LOC RWY 2	1	2	PHOG	KAHULUI	HI (US)
IAP	NDB RWY 2	2, 3		PHOG	KAHULUI	HI (US)
STAR	CAMPS	2, 3	1	PHOG	KAHULUI	HI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 20

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

1. CHANGED HOLDING PATTERN 2 INBOUND COURSE FROM 024.28 TO 023.97 AND FACILITY FROM OGG VORTAC TO I-OGG LOCALIZER.
2. REMOVED HOLDING PATTERN 1 AND FAC 2 FROM THE ILS OR LOC RWY 2 AT PHOG IN FIX USE.
3. CHANGED I-OGG DME COORDINATES FROM 205418.74N-1562523.97W TO 205427.37N-1562523.81W.
4. ADDED FAC 3 TO V2 AND V21 IN FIX USE.

11/1/17: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/20/17.
 ADDED HOLDING PAT 2 TO PHOG ILS OR LOC RWY 2 IN FIX USE.

DEVELOPED BY: DATE: 11/03/2016 OFFICE: AJV-5431 NAME: LIAM DONAHUE

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

SIGNATURE: *Digitally signed by*
DONALD H LANIER

DISTRIBUTION: NFDC Nov 01, 2017
 FPO: WST
 ARTCC: ZHN
 ATC FACILITY: HCF APP CON, OGG ATCT
 OTHER:

QUALITY
34
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KRANE **STATE:** HI **COUNTRY:** US **ICAO REGION CODE:** PH

LATITUDE/LONGITUDE: 210508.44N/1561723.40W **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 NM	FAC FEET	MRA	MAA
1	MAUI	OGG	VORTAC	H	023.47	034.47	13.00	13.00		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	NE		WP	023.96	203.96	R		4	3000	6000	5	6
2	NE	OGG	VORTAC	023.47	203.47	R	1		3000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	SHIP	210400.81N/1561905.73W	208	2C
2	200	SHIP	210400.81N/1561905.73W	208	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 2	1	2	PHOG	KAHULUI	HI (US)
IAP	RNAV (GPS) RWY 20			PHOG	KAHULUI	HI (US)
IAP	RNAV (GPS) Y RWY 2		1	PHOG	KAHULUI	HI (US)
IAP	RNAV (RNP) Z RWY 2		1	PHOG	KAHULUI	HI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. ADDED DME TO FIX TYPE.
2. ADDED OGG VORTAC AS FAC1.
3. ADDED HOLDING PATTERN 2.
4. ADDED THE ILS OR LOC RWY 2 AT PHOG TO FIX USE.

DEVELOPED BY: **DATE:** 11/03/2016 **OFFICE:** AJV-5431 **NAME:** LIAM DONAHUE

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

SIGNATURE: *Digitally signed by*
DONALD H LANIER

DISTRIBUTION: NFDC
FPO: WST
ARTCC: ZHN
ATC FACILITY: HCF APP CON, OGG ATCT
OTHER:

Oct 20, 2017



RADIO FIX AND HOLDING DATA RECORD

NAME: NOWAK

STATE: HI

COUNTRY: US

ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 205103.93N/1562752.66W

TYPE: RADAR, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	KAHULUI	I-OGG	LOC/DME		203.97	214.97	4.10	4.09		880	4500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

I-OGG DME COORDINATES: 205427.37N-1562523.81W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY2			PHOG	KAHULUI	HI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. MOVED FIX 9262.73 FT. (1.52 NM) NORTHEAST. NAME RETAINED PER ATC REQUEST.
2. CHANGED DME/FAC DIST FROM 5.51/5.54 TO 4.10/4.09.
3. UPDATED I-OGG DME COORDINATES FROM: 205418.74N-1562523.97W TO: 205427.37N-1562523.81W.

DEVELOPED BY:

DATE: 11/03/2016

OFFICE: AJV-5431

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by
DONALD H LANIER

DISTRIBUTION:

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

Oct 20, 2017



RADIO FIX AND HOLDING DATA RECORD

NAME: PLUMB STATE: HI COUNTRY: US ICAO REGION CODE: PH
 LATITUDE/LONGITUDE: 211242.30N/1563605.35W TYPE: WP, INT, DME

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	MOLOKAI	MKK	VORTAC	H	071.00	082.00	32.04	32.04	5000	17500
2	MAUI	OGG	VORTAC	H	320.00	331.00	20.87	20.87	5000	17500
3	VALLEY ISLAND	VYI	NDB	MH	324.78	335.78		21.70	5000	7000

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	NW	OGG	VORTAC	320.00	140.00	L	1	5000 6000	6 14
2	NW	VYI	NDB	324.78	144.78	L	1	5000 6000	6 14

CONTROLLING OBSTRUCTIONS:

PAT	AIR SPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	SHIP	211302.60N/1563607.15W	208	2C
1	310	AAO	211000.00N/1564606.00W	1818	4E
2	200	SHIP	211328.77N/1563543.94W	208	2C
2	310	AAO	210945.00N/1564530.00W	1703	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 PROVIDE SEPARATION FROM DEPARTURE/ARRIVAL ROUTES
 PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	NDB RWY 2	PHOG	KAHULUI	HI (US)
2	ILS OR LOC RWY 2	PHOG	KAHULUI	HI (US)

REMARKS:

MOLOKAI (FAC 1) AND MAUI (FAC 2) USED TO ESTABLISH FIX COORDINATES
 CLEARANCE LIMIT FOR NON RADAR OPERATIONS (HNL CENTER).
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V22	1, 2				(US)
EN ROUTE	V6	2	1			(US)
IAP	ILS OR LOC RWY 2	1, 3	2	PHOG	KAHULUI	HI (US)
IAP	NDB RWY 2	1, 2	1	PHOG	KAHULUI	HI (US)
IAP	RNAV (GPS) RWY 20			PHOG	KAHULUI	HI (US)
IAP	RNAV (GPS) RWY 23			PHOG	KAHULUI	HI (US)
IAP	VOR / DME OR TACAN RWY 20	2		PHOG	KAHULUI	HI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. ADDED VYI NDB AS FAC3 TO FACILITIES.
 2. ADDED HOLDING PATTERN 2.
 3. ADDED ILS OR LOC RWY 2 AT PHOG TO FIX USE.

DEVELOPED BY: DATE: 11/03/2016 OFFICE: AJV-5431 NAME: LIAM DONAHUE
 APPROVED BY: DATE: OFFICE: AJV-5430 NAME: PATRICK MULQUEEN
 SIGNATURE: Digitally signed by DONALD H LANIER

DISTRIBUTION: NFDC
 FPO: WST
 ARTCC: ZHN
 ATC FACILITY: HCF APP CON, OGG ATCT
 OTHER:

Oct 20, 2017

QUALITY
 18
 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TEBBS

STATE: HI

COUNTRY: US

ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 204726.89N/1563034.01W

TYPE: RADAR, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	KAHULUI	I-OGG	LOC/DME		203.97	214.97	8.50	8.49	51588	2400	4500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

I-OGG DME COORDINATES: 205427.37N-1562523.81W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 2			PHOG	KAHULUI	HI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. MOVED FIX 10126.35 FT. (1.67 NM) NORTHEAST. NAME RETAINED PER ATC REQUEST.
2. UPDATED I-OGG DME COORDINATES FROM: 205418.74N-1562523.97W.TO: 205427.37N-1562523.81W.
3. CHANGED DME/FAC DIST FROM 10.04/10.07 TO 8.50/8.49 NM.
4. ADDED DIST FROM FAC IN FT.
5. LOWERED FACILITY MRA FROM 3000 TO 2400.

DEVELOPED BY:

DATE: 11/03/2016

OFFICE: AJV-5431

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DONALD H LANIER

Oct 20, 2017

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZHN

ATC FACILITY: OGG ATCT, HCF APP CON

OTHER:

QUALITY
18
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MAUI VORTAC STATE: HI COUNTRY: US ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 205423.22N/1562515.47W 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	MAUI	OGG	VORTAC	H						45000

FIX RESTRICTIONS:

MCA V24 6700 SOUTHWEST BOUND
MCA V15 6800 WESTBOUND

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	OGG	VORTAC	187.00	007.00	L	1-1 1/2	8000 17500	8 16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	205336.00N/1563430.00W	5886	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	370

REASON FOR NONSTANDARD HOLDING:

PAT 1 AVOID TERRAIN

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

ASSIGNED FACILITY MAG VAR: 11 DEGREES EAST.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1 FOR ATC USE.
PAT 1 CONTROLLING OBSTACLE LOCATED 4075.62' INTO SECONDARY AREA, PRIMARY EQUIVALENT ELEVATION 5218'.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MOLOKAI			PHNL	HONOLULU	HI (US)
DP	BEACH			PHOG	KAHULUI	HI (US)
DP	MAUI			PHOG	KAHULUI	HI (US)
DP	ONOH			PHOG	KAHULUI	HI (US)
DP	STACEY			PHOG	KAHULUI	HI (US)
DP	SWEEP			PHOG	KAHULUI	HI (US)
DP	AMERY			PHKO	KAILUA-KONA	HI (US)
DP	BLUSH			PHMK	KAUNAKAKAI	HI (US)
EN ROUTE	R576					(US)
EN ROUTE	R577					(US)
EN ROUTE	V11					(US)
EN ROUTE	V15					(US)
EN ROUTE	V17					(US)
EN ROUTE	V22					(US)
EN ROUTE	V24					(US)
EN ROUTE	V6					(US)
EN ROUTE	V1					HI (US)
IAP	ILS OR LOC RWY 02			PHOG	KAHULUI	HI (US)
IAP	NDB RWY 2			PHOG	KAHULUI	HI (US)
IAP	SMOKE STACK VISUAL RWY 02			PHOG	KAHULUI	HI (US)
IAP	VOR RWY 20			PHOG	KAHULUI	HI (US)
IAP	VOR/DME OR TACAN RWY 20			PHOG	KAHULUI	HI (US)
STAR	JULLE			PHNL	HONOLULU	HI (US)
STAR	MAGGI			PHNL	HONOLULU	HI (US)
STAR	SAKKI			PHNL	HONOLULU	HI (US)
STAR	CAMPS			PHOG	KAHULUI	HI (US)
STAR	KAYAK			PHKO	KAILUA/KONA	HI (US)
STAR	VECKI			PHKO	KAILUA/KONA	HI (US)

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

COMPULSORY REPORTING POINT: BOTH

QUALITY
18
CHECKED

RECORD REVISION NUMBER: 16

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

1. REMOVED TAKEOFF MINIMUMS AT PHOG FROM FIX USE.
2. ADDED SWEEP DP AT PHOG TO FIX USE.
3. REMOVED NAD 83/WGS 84 REMARK.
4. ADDED ASSIGNED MAG VAR TO REMARKS.

ATC COORDINATION: DATE: 11/28/2016

FACILITY:

NAME: MUL

DEVELOPED BY: DATE: 11/03/2016

OFFICE: AJV-5431

NAME: LIAM DONAHUE

APPROVED BY: DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

Digitally signed by
SIGNATURE: **DONALD H LANIER**

Oct 20, 2017

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZHN

ATC FACILITY: OGG ATCT, HCF APP CON

OTHER:

QUALITY
18
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: VALLEY ISLAND NDB

STATE: HI

COUNTRY: US

ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 205250.75N/1562633.55W

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 NM	FAC FEET	MRA	MAA
1	VALLEY ISLAND	VYI	NDB	MH							45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 2			PHOG	KAHULUI	HI (US)
IAP	NDB RWY 2			PHOG	KAHULUI	HI (US)
IAP	SMOKE STACK VISUAL RWY 2			PHOG	KAHULUI	HI (US)
STAR	CAMPS			PHOG	KAHULUI	HI (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 03/02/2017

REASON FOR REVISION:

ADDED CAMPS STAR AT PHOG TO FIX USE.

DEVELOPED BY:

DATE: 11/03/2016

OFFICE: AJV-5431

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DONALD H LANIER

Oct 20, 2017

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZHN

ATC FACILITY: OGG ATCT, HCF APP CON

OTHER:

QUALITY
18
CHECKED