HAWAII ADMINISTRATIVE RULES

TITLE 13

DEPARTMENT OF LAND AND NATURAL RESOURCES

SUBTITLE 4 FISHERIES

PART V PROTECTED MARINE FISHERIES RESOURCES

CHAPTER 94

BOTTOMFISH MANAGEMENT

§13-94-1 Purpose
§13-94-2 Definitions
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§13-94-1 Purpose. It is the intention of the department to establish these rules for the conservation and management of bottomfish resources in the main Hawaiian Islands. Scientific studies indicate that certain bottomfish species should be managed and certain areas strictly regulated to conserve existing stocks.

§13-94-2 Definitions. As used only in this chapter:

"Board" means the board of the department of land and natural resources.

"Bottomfish" means those fish species listed in section 13-94-5 of this chapter.

"Bottomfish limited entry program" means a method of fishery management that limits or controls participation in a fishery, access to a fishery, or generally fishing, for a bottomfish species or a number of bottomfish species. Measures to limit or control participation, access, or fishing could include, but are not limited to, reducing or setting a maximum number of

fishers, reducing or setting a maximum number of fishing vessels, restricting fishing gear types, restricting fishing areas, or restricting maximum amount of catch.

"Bottomfish longline" means a type of fishing gear or fishing method used to take bottomfish consisting of a weighted mainline, with attached shorter branchlines with fishing hook or hooks, that is either laid on the ocean bottom or suspended horizontally near the ocean bottom with floats.

"Clearly visible" means to be able to be seen in its entirety from a distance at least 100 feet away, free of any obstacle that may block the field of view from at least 45 degrees above, fore, and aft of the vessel.

"Commercial purposes" means the taking of marine life for profit or gain or as a means of livelihood where the marine life is taken in or outside of the State, or where the marine life is sold, offered for sale, bartered, landed, or transported for sale anywhere in the State.

"Main Hawaiian islands commercial bottomfish fishery" means the fishing of bottomfish for commercial purpose in the waters of the main Hawaiian islands surrounding, between, and including the islands of Niihau and Kaula to the northwest and the island of Hawaii to the southeast.

"Net" means any of various fishing devices of mesh material made into various shapes, such as but not limited to, a bag, sack, pouch, or curtain, used to entangle, surround, or concentrate aquatic life.

"Non-commercial purposes" means any purpose other than commercial purposes.

"Scoop net" means a type of fishing net consisting of a bag of mesh material kept open with a rigid frame and manipulated by a rigid handle that is designed to be used by a single person unaided by any mechanical device.

"Take" means to fish for, catch, or harvest, or to attempt to fish for, catch, or harvest, aquatic life. The use of any gear, equipment, tool, or any means to fish for, catch, capture, or harvest, or to attempt to fish for, catch, capture, or harvest, aquatic life by any person who is in the water, or in a vessel on the water, or on or about the shore where aquatic life can be fished for, caught, or harvested, shall be construed as fishing.

"Trap" means any of various fishing devices of mesh, perforated, or solid material made into the shape

of a box, container, or enclosure, with one or more openings that allow aquatic life to enter into the interior of the box, container, or enclosure, but restrict exit out, thereby capturing the aquatic life within.

"Trawl" means a type of fishing net, usually in the form of an elongated bag, with the mouth kept open by various means that captures aquatic life while being towed or dragged through the water by a vessel. [Eff: JUN 01 1998] (Auth: HRS §187A-5) (Imp: HRS §187A-5)

§13-94-3 Penalty. A person violating this chapter, or the terms and conditions of any license or permit issued as provided by this chapter, shall be punished as provided by law. [Eff: JUN 01 1998] (Auth: HRS §§187A-5, 187A-13, 188-53, 188-70, 189-4) (Imp: HRS §§187A-5, 187A-13, 188-53, 188-70, 189-4)

§13-94-4 Severability. If any provision of this chapter, or the application thereof to any person or circumstance is held invalid, the invalidity does not affect other provisions or applications of the chapter which can be given effect without the invalid provision or application, and to this end the provisions of this chapter are severable. [Eff: JUN 01 1998] (Auth: HRS §§187A-5, 1-23) (Imp: HRS §§187A-5, 1-23)

§13-94-5 Bottomfish species. For the purposes of this chapter, the following species are bottomfish:

(1) Ula'ula koa'e or onaga (*Etelis coruscans*);
(2) Ula'ula or ehu (*Etelis carbunculus*);
(3) Kalekale (*Pristipomoides sieboldii*);
(4) Opakapaka (*Pristipomoides filamentosus*);
(5) Ukikiki or gindai (*Pristipomoides zonatus*);
(6) Hapu'u (*Epinephelus quernus*); and
(7) Lehi (*Aphareus rutilans*). [Eff: JUN 01 1998] (Auth: HRS §187A-5) (Imp: HRS §187A-5)

§13-94-6 Restricted bottomfish fishing gears. (a) Certain fishing gears shall be prohibited to restrict their use in the taking of bottomfish. Except as may be otherwise authorized by law, it is unlawful for any person to take bottomfish with any trap, trawl, bottomfish longline or net; provided that scoop nets

may be used to bring on board a vessel any bottomfish that has already been caught by authorized fishing gear.

(b) Except as may be otherwise authorized by law, it is unlawful for any person, while on board a vessel, to possess both bottomfish and any trap, trawl, bottomfish longline, or net other than scoop net. [Eff: JUN 01 1998] (Auth: HRS §187A-5) (Imp: HRS §187A-5)

§13-94-7 Non-commercial bag limits. (a) A limit on the number of bottomfish that may be taken for non-commercial purposes shall be established to conserve bottomfish resources.

(b) Unless otherwise authorized by law, it is unlawful for any person, without a current commercial marine license issued pursuant to section 13-74-20, to take or possess more than five onaga, five ehu, or a combined total of five of both. [Eff: JUN 01 1998] (Auth: HRS §§187A-5, 189-2) (Imp: HRS §§187A-5, 189-2)

§13-94-8 Bottomfish restricted fishing areas. (a) The department will restrict fishing in certain areas to conserve the spawning populations of bottomfish.

(b) To aid enforcement of this section, the department intends to restrict all fishing for and possession of bottomfish within the restricted fishing areas. It is unlawful for any person to take or possess bottomfish while in a vessel that is drifting or anchoring within any bottomfish restricted fishing area, except in times of emergencies or as may be otherwise authorized by law.

(c) The department will gather and consider the following information when selecting the bottomfish restricted fishing areas:

(1) Identify the fishing areas where spawning onaga and ehu are caught;
(2) Restrict fishing in about twenty percent of the known fishing areas where spawning onaga and ehu are caught;
(3) Distribute the bottomfish restricted fishing areas in the most effective manner to consider the potential benefits and limit negative impacts on bottomfish fishing opportunities;
(4) Suggestions from bottomfish fishers statewide; and
(5) Any other relevant information.

(d) Due to the critical need of some bottomfish species for conservation measures, the department may need to respond quickly to establish or modify bottomfish restricted fishing areas. The bottomfish restricted fishing areas shall be established or amended by formal board action at a publicly noticed meeting. The bottomfish restricted fishing areas are attached at the end of this chapter as Exhibit A, entitled the "Bottomfish Restricted Fishing Areas" 4/24/98, or as may be amended by subsequent board action and a copy of the amended Exhibit A shall be filed with the Office of the Lieutenant Governor.

(e) The department will, in consultation with fishermen and other relevant persons, evaluate the bottomfish restricted fishing areas no later than July 1, 2003 to monitor their effectiveness and proceed to establish or amend the onaga and ehu restricted areas, as necessary. [Eff: JUN 01 1998] (Auth: HRS §§187A-5, 188-53) (Imp: HRS §§187A-5, 188-53)

§13-94-9 <u>Bottomfish fishing vessel identification number.</u> (a) The department may register, and assign a bottomfish fishing vessel identification number to, any vessel used to fish for bottomfish. The purpose of the number is to enable identification of vessels used to fish for bottomfish from a distance while on the open ocean.

(b) It is unlawful for any person to take or possess bottomfish while on a vessel on the water without a bottomfish fishing vessel identification number assigned or approved by the department.

(c) The bottomfish fishing vessel identification number shall consist of the following vessel identification, in front of the letters "BF" added as a suffix:

(1) A valid Division of Boating and Ocean Recreation vessel registration number issued and displayed pursuant to chapter 13-241;

(2) A valid National Marine Fisheries Service permit number issued and displayed under the provisions set forth in Fishery Management Plans of the Western Pacific Regional Fishery Management Council pursuant to CFR Part 660 Subparts B through E;

(3) A valid United States Coast Guard vessel

documentation number issued pursuant to 46 CFR 67; or

(4) Any other such identification approved by the department.

(d) If the vessel identification, listed in subsection (c) above is not required to be displayed, then the vessel identification and the capital letters "BF", shall be displayed and clearly visible on both sides of the vessel, either near the top of the gunwales or on the superstructure. Unless otherwise specified, all characters in the bottomfish vessel identification number shall be no less than six (6) inches high and three (3) inches wide in black or a contrasting solid color to the background. [Eff: JUN 01 1998] (Auth: §187A-5) (Imp: §187A-5)

§13-94-10 Control date. (a) There is established a control date to give prior notice of intent to possibly limit participation in the Main Hawaiian Islands commercial bottomfish fishery. Persons who begin fishing in the Main Hawaiian Islands commercial bottomfish fishery on or after the control date will not be assured continued participation if the department establishes a bottomfish limited entry program in the future. The control date will be the original effective date of this chapter.

(b) Nothing in this chapter shall commit the department to establish a bottomfish limited entry program in the future nor does it prevent the department from establishing another control date. [Eff: JUN 01 1998] (Auth: HRS §187A-5) (Imp: HRS §187A-5)

Hawaii Administrative Rules
Chapter 13-94
Bottomfish Management

EXHIBIT A

Bottomfish Restricted Fishing Areas

4/24/98

General Notes to Areas and Illustrative Maps
The boundaries of all areas are defined by coordinates and straight lines connecting the coordinates. The inshore boundary of all areas is defined by straight lines that approximate the 100 fathom isobath. The coordinates are given as latitude and longitude. Where feasible, landmarks are noted.

The attached maps are not to be used for navigation purposes.

Area 1: Niihau
Coordinates
A = 21°49.2' N, 160°8.2' W
B = 21°50.8' N, 160°4.3' W (south of Pueo Pt.)
C = 21°46.8' N, 160°4.3' W
D = 21°45.1' N, 160°8.2' W
Approximately 4 x 4.5 nautical miles

Area 2: Kauai, Hanalei - Kilauea Point
Coordinates
A = 22°16.8' N, 159°31.0' W
B = 22°16.0' N, 159°24.1' W
C = 22°15.1' N, 159°24.1' W (north of Kilauea lighthouse)
D = 22°15.0' N, 159°25.6' W
E = 22°15.1' N, 159°27.6' W
F = 22°15.6' N, 159°28.2' W
G = 22°15.4' N, 159°29.1' W
H = 22°15.9' N, 159°29.8' W
I = 22°15.8' N, 159°30.8' W
J = 22°15.3' N, 159°31.0' W (north of Makahoa Pt.)
Approximately 6.5 x 1.4 n. miles

Area 3: Kauai, Makahuena Point to S. Kawai Pt.
Coordinates
A = 21°54.8' N, 159°21.0' W (south of Kawai Pt.)
B = 21°54.8' N, 159°20.0' W
C = 21°51.4' N, 159°22.1' W
D = 21°50.0' N, 159°26.4' W
E = 21°51.0' N, 159°26.4' W (south of Makahuena Pt.)
F = 21°51.3' N, 159°25.6' W
G = 21°51.6' N, 159°25.4' W
H = 21°52.0' N, 159°24.4' W
I = 21°51.7' N, 159°23.5' W
J = 21°52.1' N, 159°22.6' W
K = 21°52.8' N, 159°22.4' W
L = 21°53.9' N, 159°21.3' W
Approximately 8.4 x 1.3 n. miles

Area 4: Oahu, Kaena Point to Makua
Coordinates
A = 21°34.8' N, 158°21.6' W (west of Kaena Pt.)
B = 21°34.2' N, 158°20.1' W
C = 21°33.4' N, 158°19.4' W
D = 21°32.9' N, 158°18.6' W
E = 21°31.3' N, 158°18.6' W (west of Ohiki-lolo)
F = 21°33.3' N, 158°21.6' W
Approximately 3.5 x 1.6 n. miles

Area 5: Oahu, Kaneohe Bay
Coordinates
A = 21°30.7' N, 157°44.7' W (almost in line with Sampan Channel)
B = 21°30.7' N, 157°41.3' W
C = 21°29.2' N, 157°41.3' W
D = 21°29.2' N, 157°42.1' W
E = 21°29.6' N, 157°43.6' W
F = 21°29.5' N, 157°44.7' W
Approximately 3.1 x 1.7 n. miles

Area 6: Oahu, Makapuu Point
Coordinates
A = 21°21.3' N, 157°37.1' W
B = 21°19.8' N, 157°33.9' W
C = 21°18.8' N, 157°33.9' W
D = 21°20.3' N, 157°37.1' W (west of FAD “NN” location)
Approximately 3.3 x 1.0 n. mile

Area 7: Oahu, Maunalua Bay
Coordinates
A = 21°14.6' N, 157°44.8' W
B = 21°14.8' N, 157°44.0' W
C = 21°14.5' N, 157°43.6' W
D = 21°14.1' N, 157°43.6' W
E = 21°13.8' N, 157°43.3' W
F = 21°13.0' N, 157°43.3' W
G = 21°13.8' N, 157°44.8' W
Approximately 1.4 x 1.5 n. miles

Area 8: Oahu, Barbers Point
Coordinates
A = 21°16.1' N, 158°06.6' W (south of Barbers Point light)
B = 21°15.4' N, 158°04.8' W
C = 21°15.3' N, 158°04.0' W
D = 21°14.4' N, 158°03.0' W
E = 21°13.6' N, 158°03.0' W
F = 21°15.0' N, 158°06.6' W
Approximately 3.7 x 1.3 n. miles

Area 9: Penguin Bank, pinnacle
Coordinates
A = 21°02.9' N, 157°47.0' W
B = 21°02.9' N, 157°41.7' W
C = 20°59.0' N, 157°44.0' W
D = 20°59.0' N, 157°47.0' W
Approximately 5 x 4 n. miles

Area 10: Penguin Bank, Third Finger
Coordinates
A = 20°57.0' N, 157°33.2' W
B = 20°57.9' N, 157°27.4' W
C = 20°54.5' N, 157°27.4' W
D = 20°54.5' N, 157°33.2' W
Approximately 6 x 4 n. miles

Area 11: Molokai, Ilio Point to Panalaia Point
Coordinates
A = 21°19.4' N, 157°15.3' W
B = 21°15.8' N, 157°03.6' W
C = 21°13.3' N, 157°03.6' W
D = 21°15.4' N, 157°09.6' W
E = 21°15.8' N, 157°13.3' W
F = 21°16.8' N, 157°15.3' W (north of Ilio Point)
Approximately 12 x 2 n. miles

Area 12: Kalohi/Pailolo Channels
Coordinates
A = 21°01.8' N, 156°50.8' W (south of Kalaula Hbr.)
B = 20°57.7' N, 156°45.3' W
C = 20°56.4' N, 156°45.7' W (west of Kaanapali)
D = 20°56.2' N, 156°48.0' W
E = 20°59.3' N, 156°50.9' W
F = 20°58.0' N, 156°53.0' W
G = 20°58.4' N, 156°54.2' W
H = 21°00.3' N, 156°53.4' W
Approximately 9 x 6 n. miles

Area 13: Maui, Makawana Point to Pauwela Point
Coordinates
A = 21°03.1' N, 156°30.8' W
B = 21°03.1' N, 156°18.0' W
C = 21°00.8' N, 156°18.0' W
D = 21°00.5' N, 156°20.5' W
E = 21°01.0' N, 156°22.8' W
F = 21°00.8' N, 156°28.8' W
G = 21°01.7' N, 156°30.8' W
Approximately 13 x 2.5 n. miles

Area 14: Maui, Kaupo to Kaapahu Bay
Coordinates
A = 20°36.2' N, 156°07.5' W (south of Kaupo)
B = 20°36.4' N, 156°06.5' W
C = 20°37.3' N, 156°05.9' W
D = 20°37.4' N, 156°04.7' W (south of Lelekea Bay)
E = 20°35.5' N, 156°04.7' W
F = 20°34.2' N, 156°07.5' W
Approximately 3 x 2.5 n. miles

Area 15 Deleted

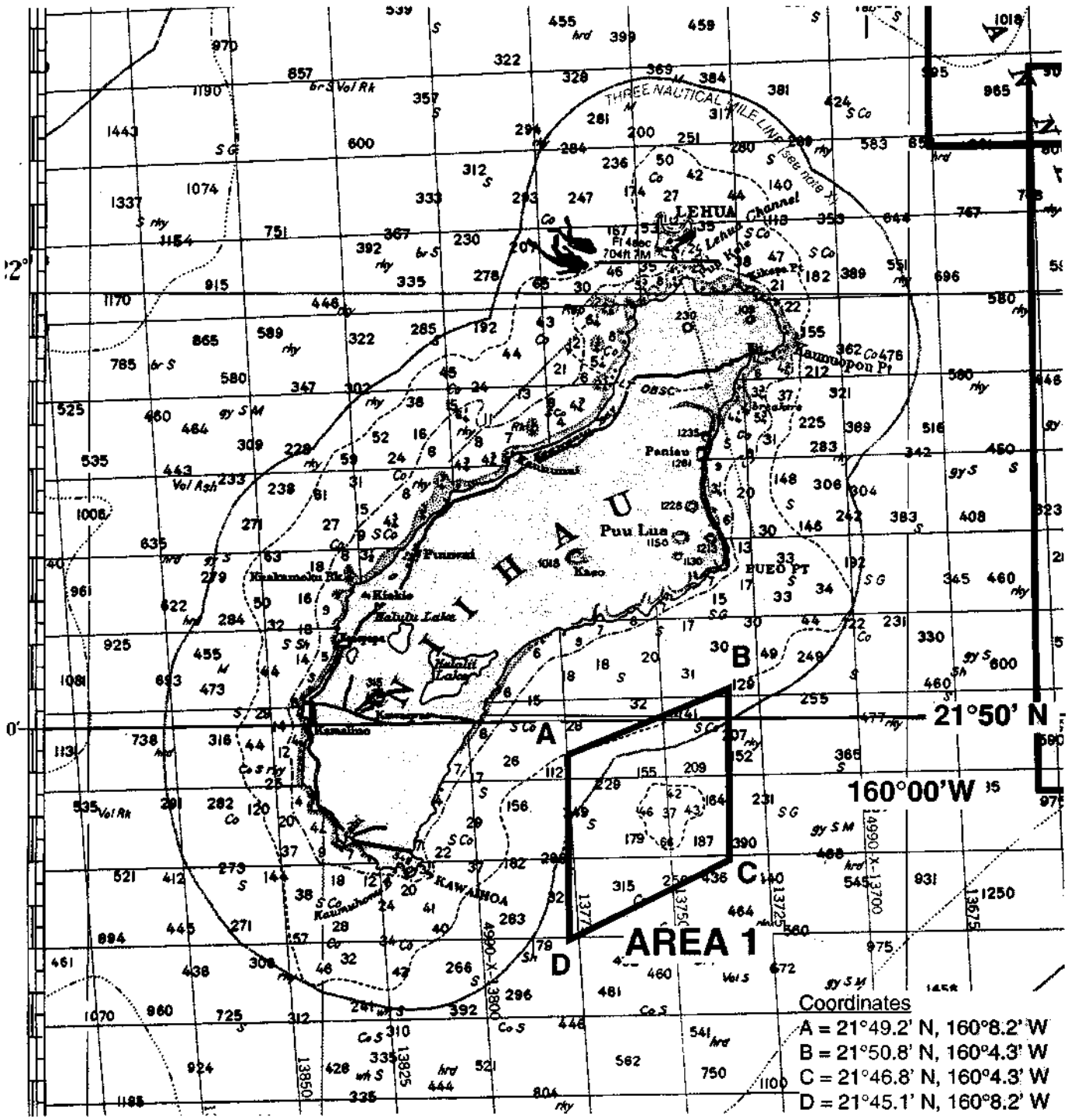
Area 16: Hawaii, Kiholo Bay to Puako
Coordinates
A = 20°00.0' N, 155°55.2' W
B = 20°00.0' N, 155°52.4' W
C = 19°59.2' N, 155°53.0' W
D = 19°58.1' N, 155°55.8' W
E = 19°53.8' N, 156°00.0' W
F = 19°56.3' N, 156°00.0' W
Approximately 10 x 2.5 n. miles

Area 17: Hawaii, Hakalau to Onomea Bay
Coordinates
A = 19°54.5' N, 155°05.7' W
B = 19°54.5' N, 155°02.3' W
C = 19°49.4' N, 155°00.0' W
D = 19°49.4' N, 155°03.4' W
E = 19°51.0' N, 155°03.3' W (off Pepeekeo Pt.)
F = 19°52.7' N, 155°04.0' W
Approximately 5.5 x 3.5 n. miles

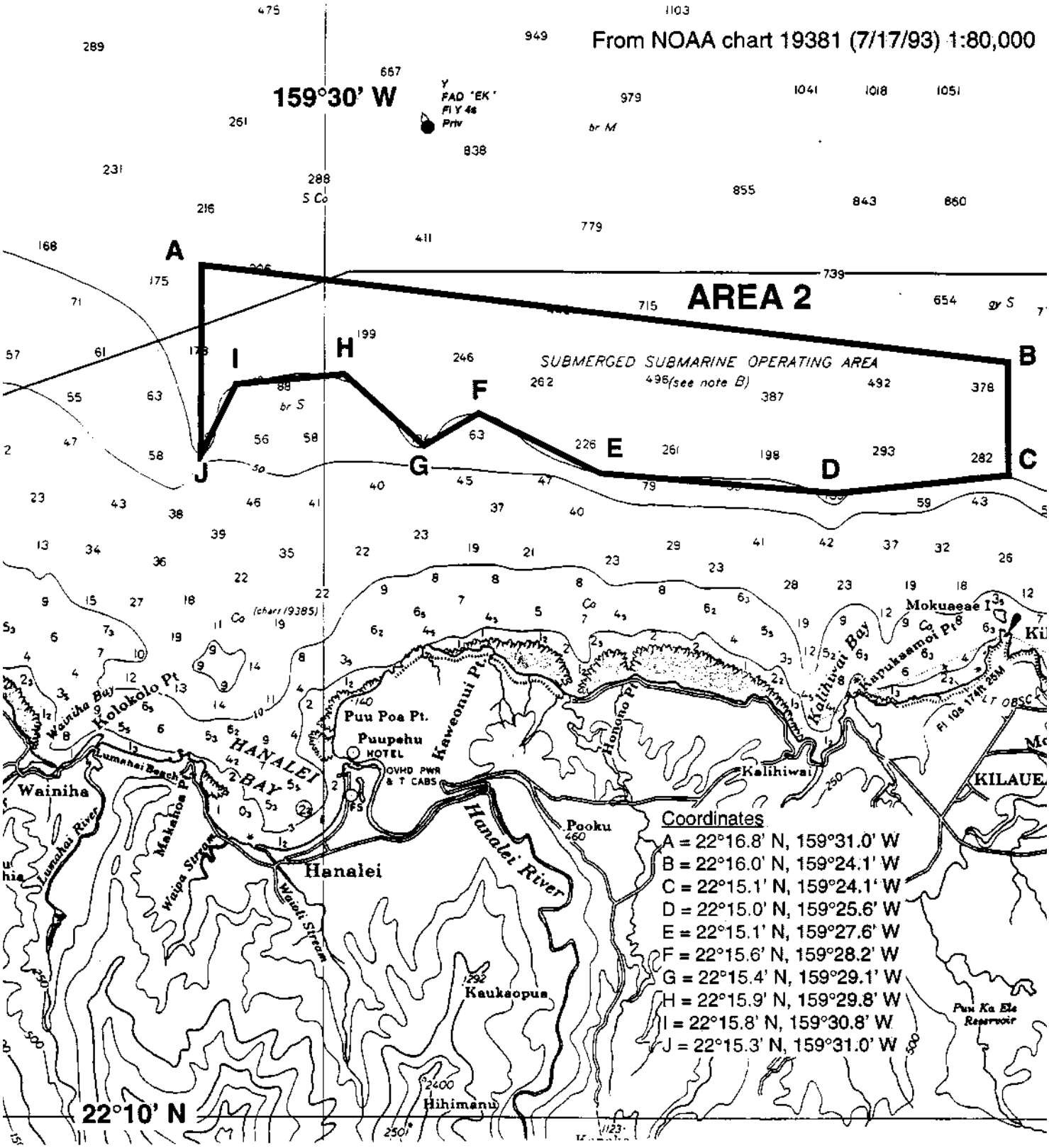
Area 18: Hawaii, Leleiwi Point to Kaloli Point
Coordinates
A = 19°44.1' N, 154°58.3' W (east of Leleiwi Pt.)
B = 19°44.1' N, 154°55.4' W
C = 19°37.4' N, 154°53.0' W (near FAD “QQ” location)
D = 19°37.4' N, 154°56.2' W (east of Kaloli Pt.)
E = 19°42.8' N, 154°58.3' W
Approximately 7.5 x 3.5 n. miles

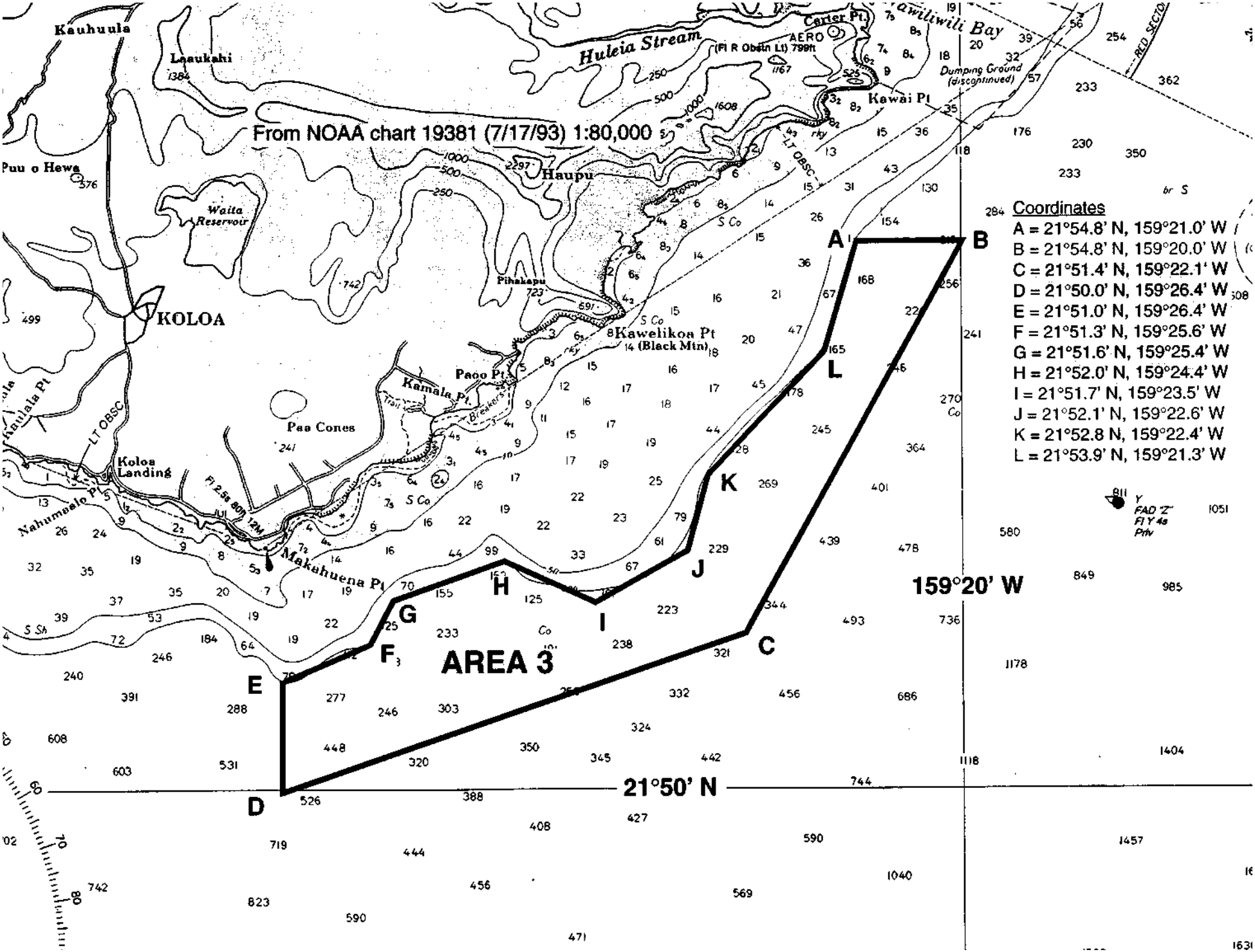
Area 19: Hawaii, Ka Lae
Coordinates
A = 19°00.0' N, 155°47.8' W (Pohue Bay)
B = 18°58.7' N, 155°47.8' W (inside boundary follows 100 fm line)
C = 18°55.5' N, 155°42.3' W
D = 18°50.1' N, 155°42.4' W
E = 18°50.1' N, 155°41.0' W (south of Ka Lae lighthouse)
Approximately 12.5 x 1.5 n. miles

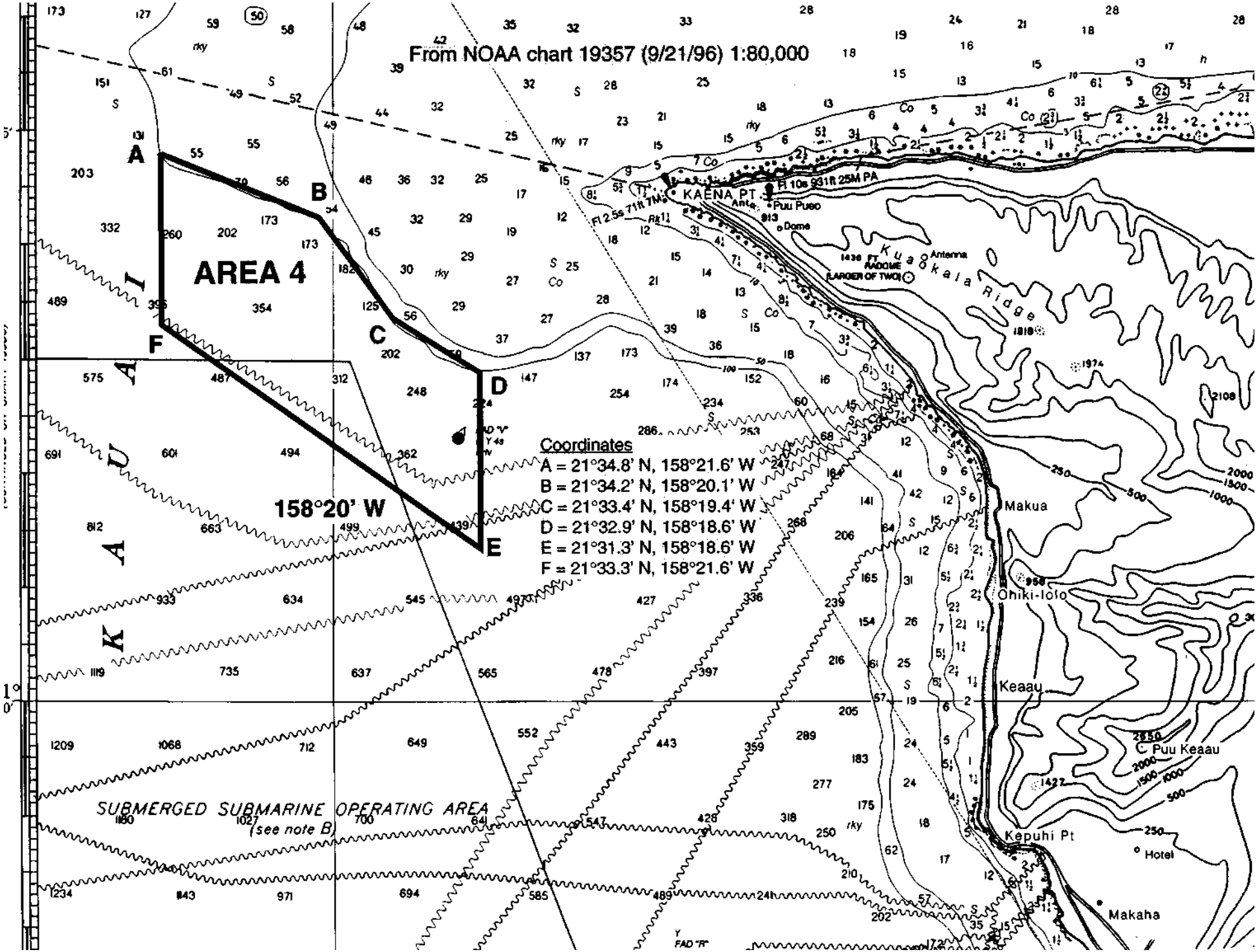
Area 20: Hawaii, Palemano Point to Alika
Coordinates
A = 19°27.5' N, 155°56.3' W (west of Palemano Point, south of Kealakekua Bay)
B = 19°27.5' N, 155°57.4' W (inside boundary follows 100 fm line)
C = 19°13.8' N, 155°54.3' W
D = 19°13.8' N, 155°55.8' W (west of lava flow)
Approximately 14.5 x 3 n. miles

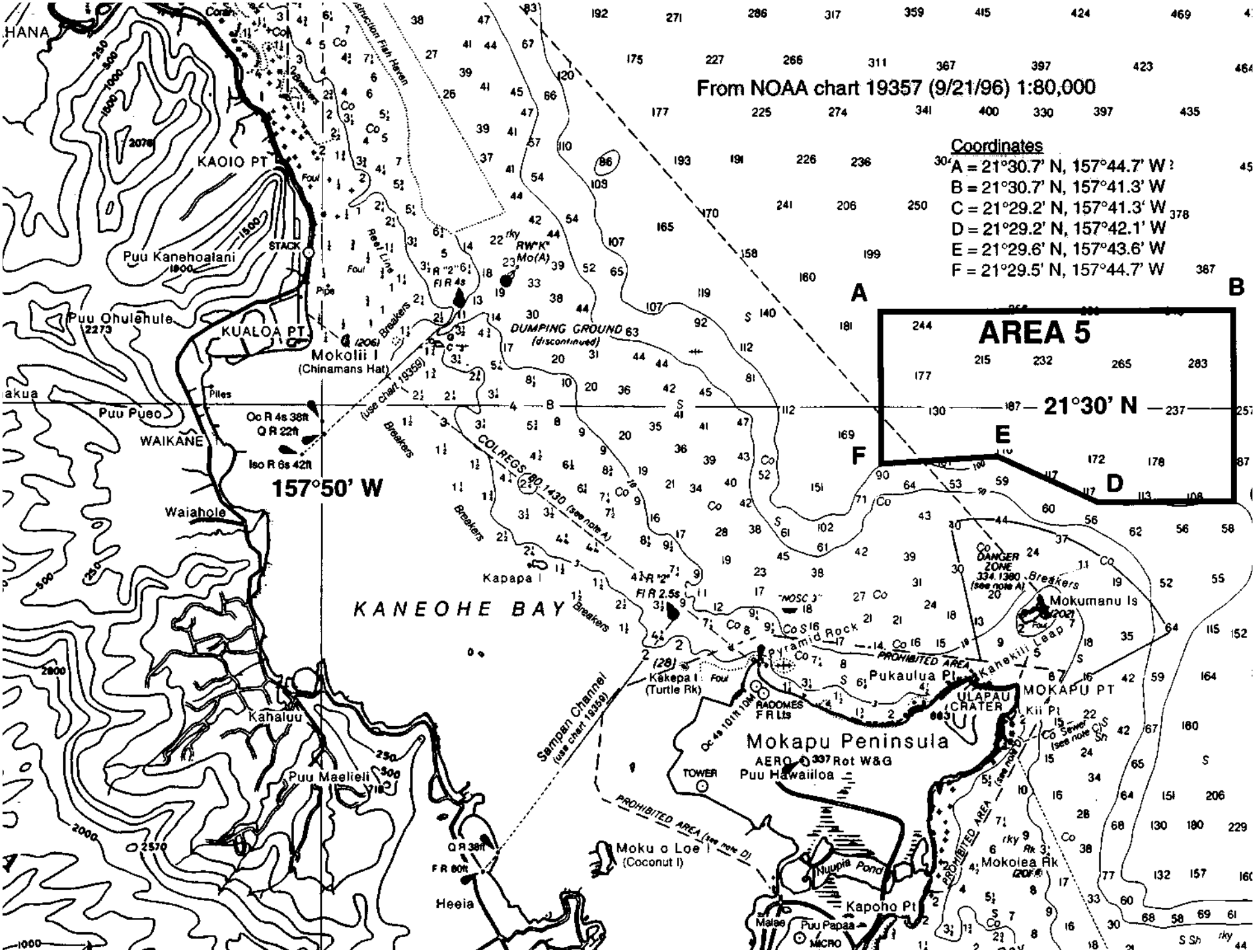


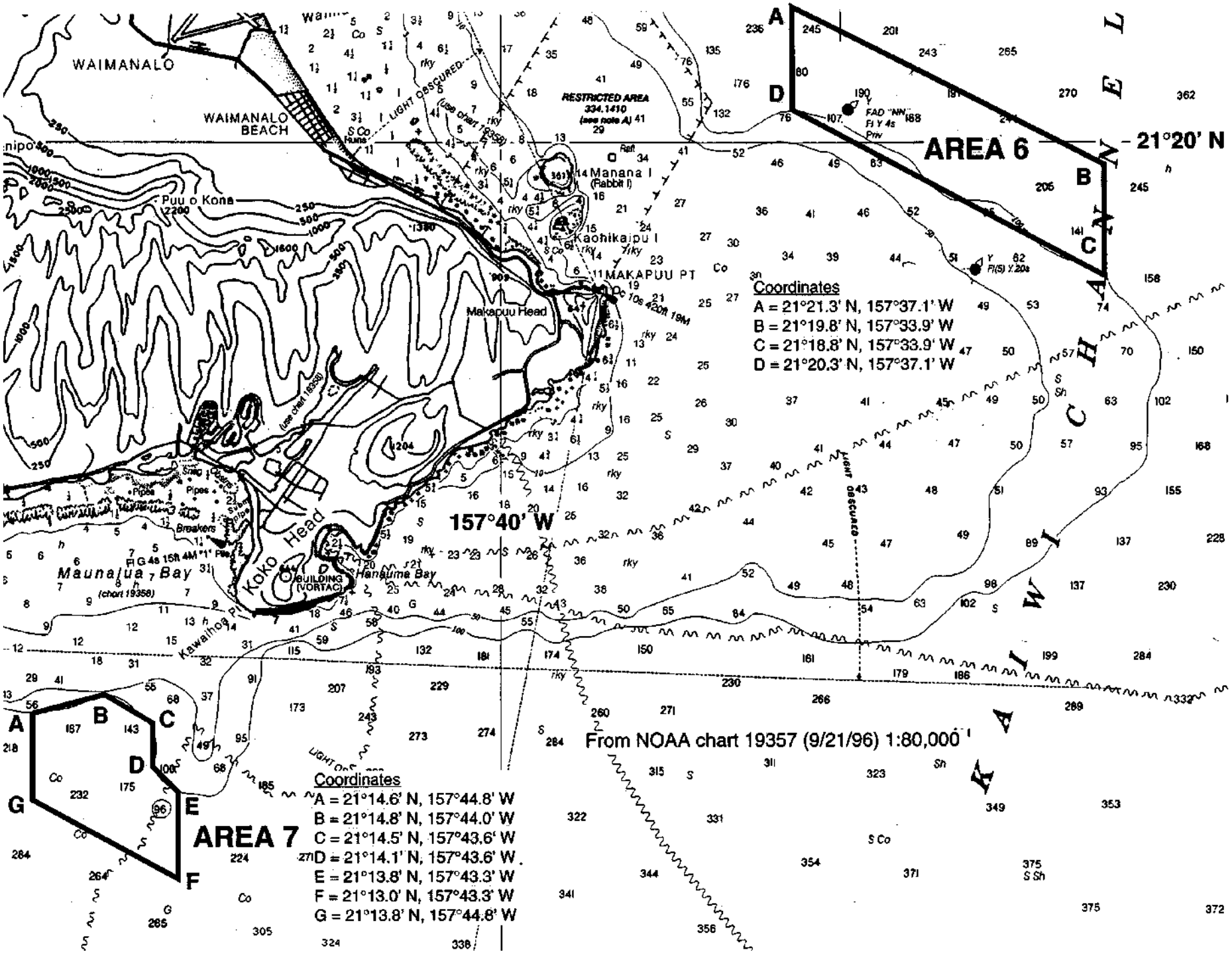
From Balder, A. P. 1992. Marine Atlas of the Hawaiian Islands: complete charts for mariners cruising the waters in and around Kauai, Niihau, Oahu, Lanai, Maui, Kahoolawe, and Hawaii. University of Hawaii Press. Honolulu, HI 96822
[NOS chart 19380 (8/11/90) 1:247,482]

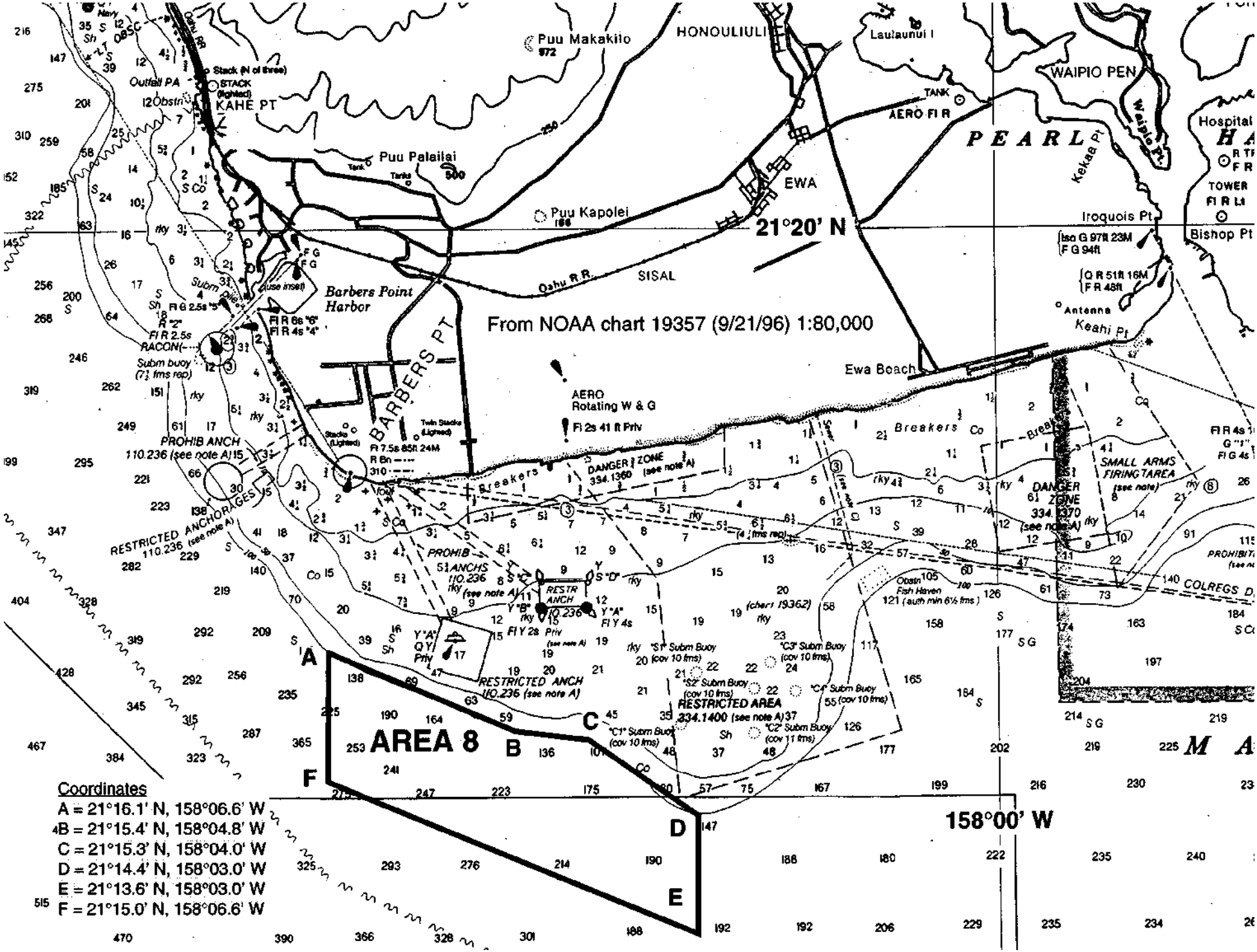

From NOAA chart 19381 (7/17/93) 1:80,000
159°30' W
22°10' N
AREA 2
SUBMERGED SUBMARINE OPERATING AREA
(see note B)
A
B
C
D
E
F
G
H
I
J
Coordinates
A = 22°16.8' N, 159°31.0' W
B = 22°16.0' N, 159°24.1' W
C = 22°15.1' N, 159°24.1' W
D = 22°15.0' N, 159°25.6' W
E = 22°15.1' N, 159°27.6' W
F = 22°15.6' N, 159°28.2' W
G = 22°15.4' N, 159°29.1' W
H = 22°15.9' N, 159°29.8' W
I = 22°15.8' N, 159°30.8' W
J = 22°15.3' N, 159°31.0' W
Wainiha
Kolokolo Pt
Wainiha Bay
HANALEI BAY
Puu Poa Pt.
Puupehu
HOTEL
Kaweonui Pt.
Honono Pt
Kalihiwai Bay
Kapukaamoi Pt
Mokuaeae I
Kalihiwai
KILAUE
Hanalei
Hanalei River
Pooku
Kauksopua
Hihimanu
Lumahai River
Makahoa Pt
Waipa Stream
Waioli Stream
Puu Ka Ele Reservoir

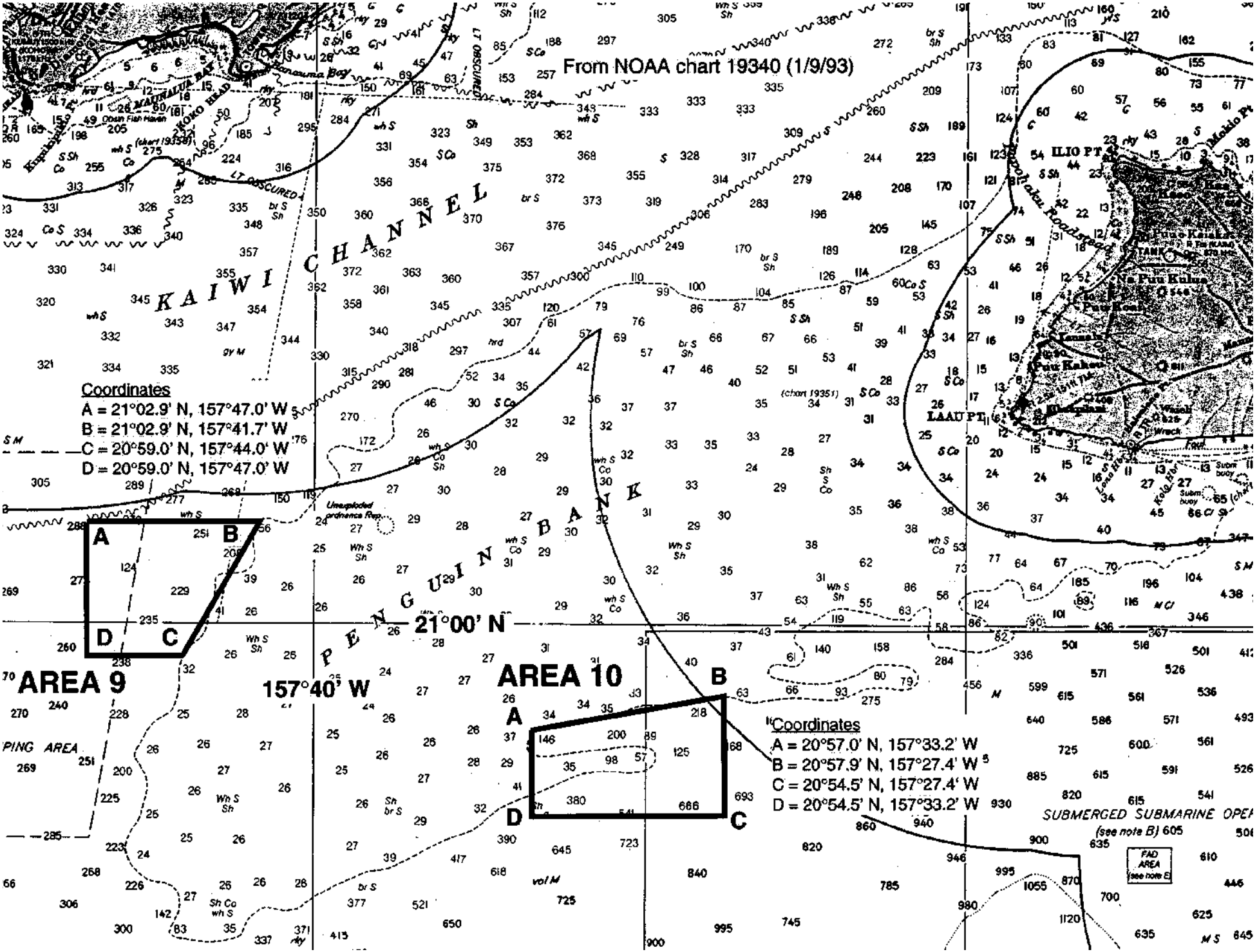

From NOAA chart 19381 (7/17/93) 1:80,000
Coordinates
A = 21°54.8' N, 159°21.0' W
B = 21°54.8' N, 159°20.0' W
C = 21°51.4' N, 159°22.1' W
D = 21°50.0' N, 159°26.4' W
E = 21°51.0' N, 159°26.4' W
F = 21°51.3' N, 159°25.6' W
G = 21°51.6' N, 159°25.4' W
H = 21°52.0' N, 159°24.4' W
I = 21°51.7' N, 159°23.5' W
J = 21°52.1' N, 159°22.6' W
K = 21°52.8 N, 159°22.4' W
L = 21°53.9' N, 159°21.3' W
AREA 3
159°20' W
21°50' N
KOLOA
Kauhuula
Puu o Hewa
Waita Reservoir
Huleia Stream
Haupu
Pihakapu
Kawelikoa Pt
(Black Mtn)
Paoo Pt
Kamala Pt
Paa Cones
Koloa Landing
Nahumaelo Pt
Makahuena Pt
Kaulala Pt
Carter Pt
Kawai Pt
Dumping Ground (discontinued)
Kawiliwili Bay
RED SECTOR

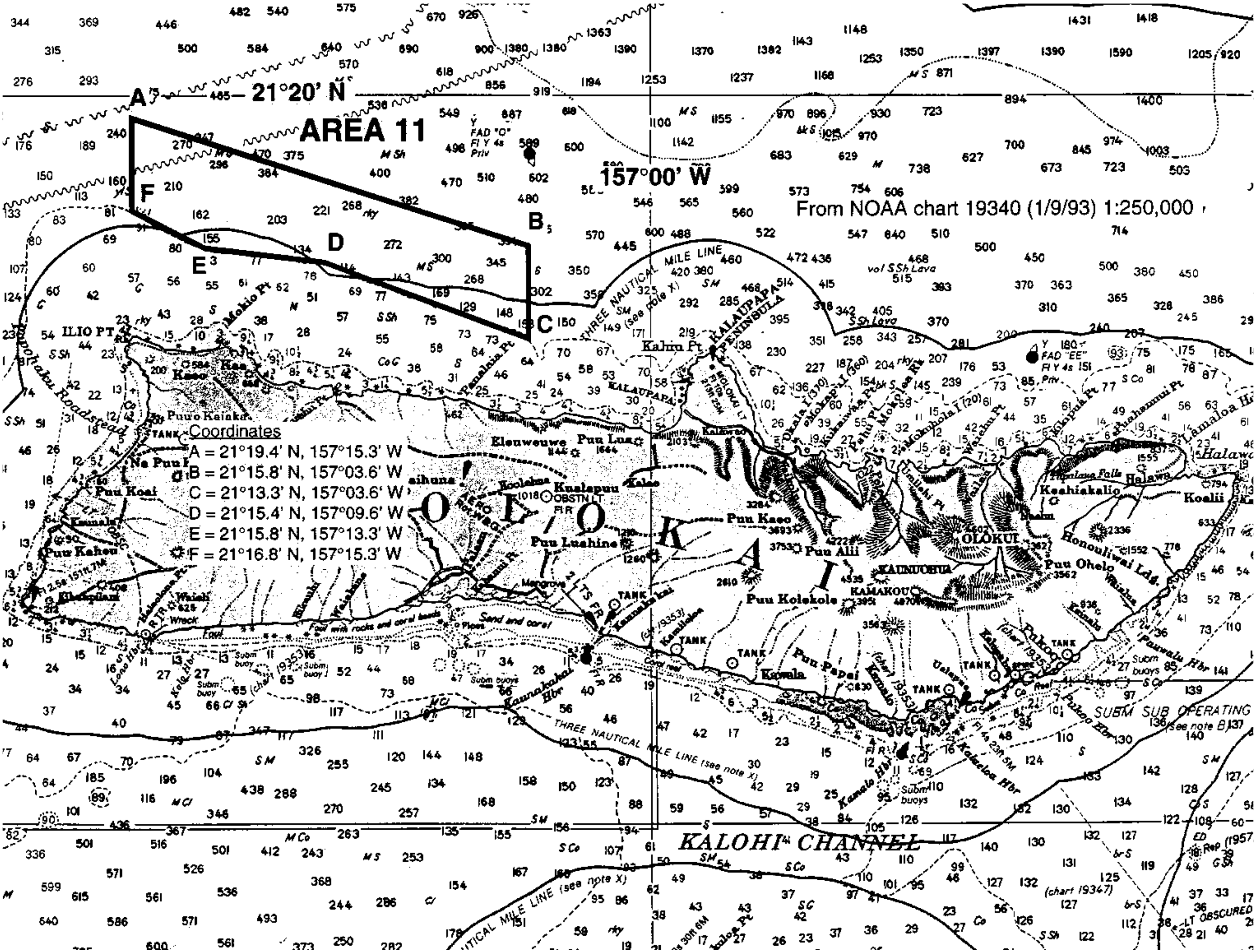

From NOAA chart 19357 (9/21/96) 1:80,000
AREA 4
A
B
C
D
E
F
158°20' W
Coordinates
A = 21°34.8' N, 158°21.6' W
B = 21°34.2' N, 158°20.1' W
C = 21°33.4' N, 158°19.4' W
D = 21°32.9' N, 158°18.6' W
E = 21°31.3' N, 158°18.6' W
F = 21°33.3' N, 158°21.6' W
SUBMERGED SUBMARINE OPERATING AREA
(see note B)
KAENA PT
Puu Pueo
Dome
Kuaokala Ridge
Makua
Ohiki-Iolo
Keaau
Puu Keaau
Kepuhi Pt
Hotel
Makaha

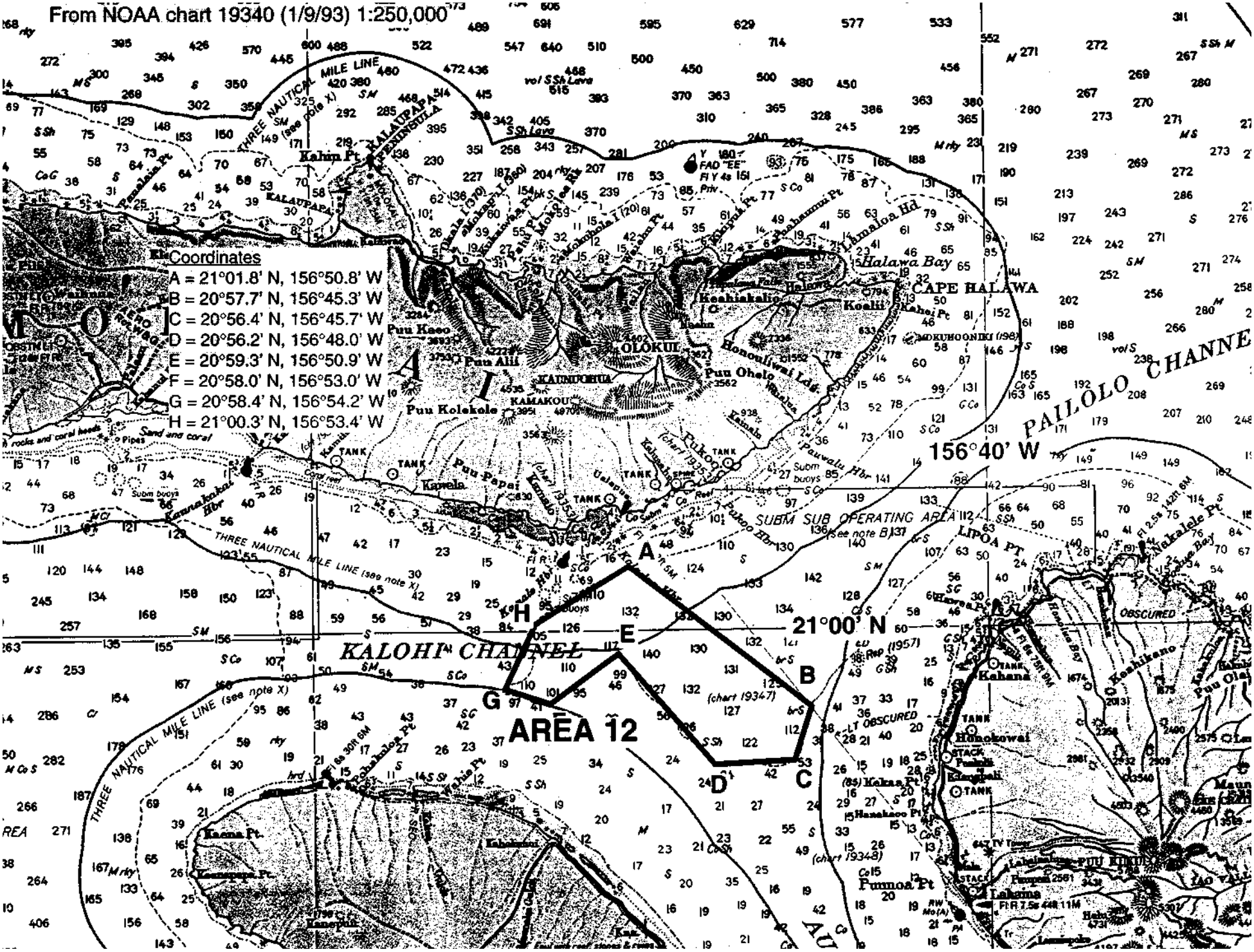

From NOAA chart 19357 (9/21/96) 1:80,000
Coordinates
A = 21°30.7' N, 157°44.7' W
B = 21°30.7' N, 157°41.3' W
C = 21°29.2' N, 157°41.3' W
D = 21°29.2' N, 157°42.1' W
E = 21°29.6' N, 157°43.6' W
F = 21°29.5' N, 157°44.7' W
AREA 5
21°30' N
157°50' W
KANEOHE BAY
Mokapu Peninsula
Mokolii I
(Chinamans Hat)
Kapapa I
Kaoio Pt
Kualoa Pt
Puu Kanehoalani
Puu Ohulehule
Puu Pueo
Waikane
Waiahole
Kahaluu
Puu Maelieli
Heeia
Moku o Loe I
(Coconut I)
Kapoho Pt
Puu Papaa
Mokolea Rk
Mokumanu Is
Mokapu Pt
Kii Pt
Ulapau Crater
Pukaulua Pt
Kahekili Leap
Pyramid Rock
Kakepa I
(Turtle Rk)
Puu Hawaiiloa
Nuupia Pond
Sampan Channel
(use chart 19359)
Dumping Ground
(discontinued)
Colregs 80 1430 (see note A)
Danger Zone
Prohibited Area
Prohibited Area (see note D)
Reef Line
Breakers
Foul
Pipe
Piles
Stack
Tower
Radomes
Micro
Malae
Oc R 4s 38ft
Q R 22ft
Iso R 6s 42ft
Q R 38ft
F R 80ft
Fl R 4s
Fl R 2.5s
Oc 4s 101ft 10M
Rot W&G
AERO
Co
Sewer
Sh
Rk
Co S
S
rky

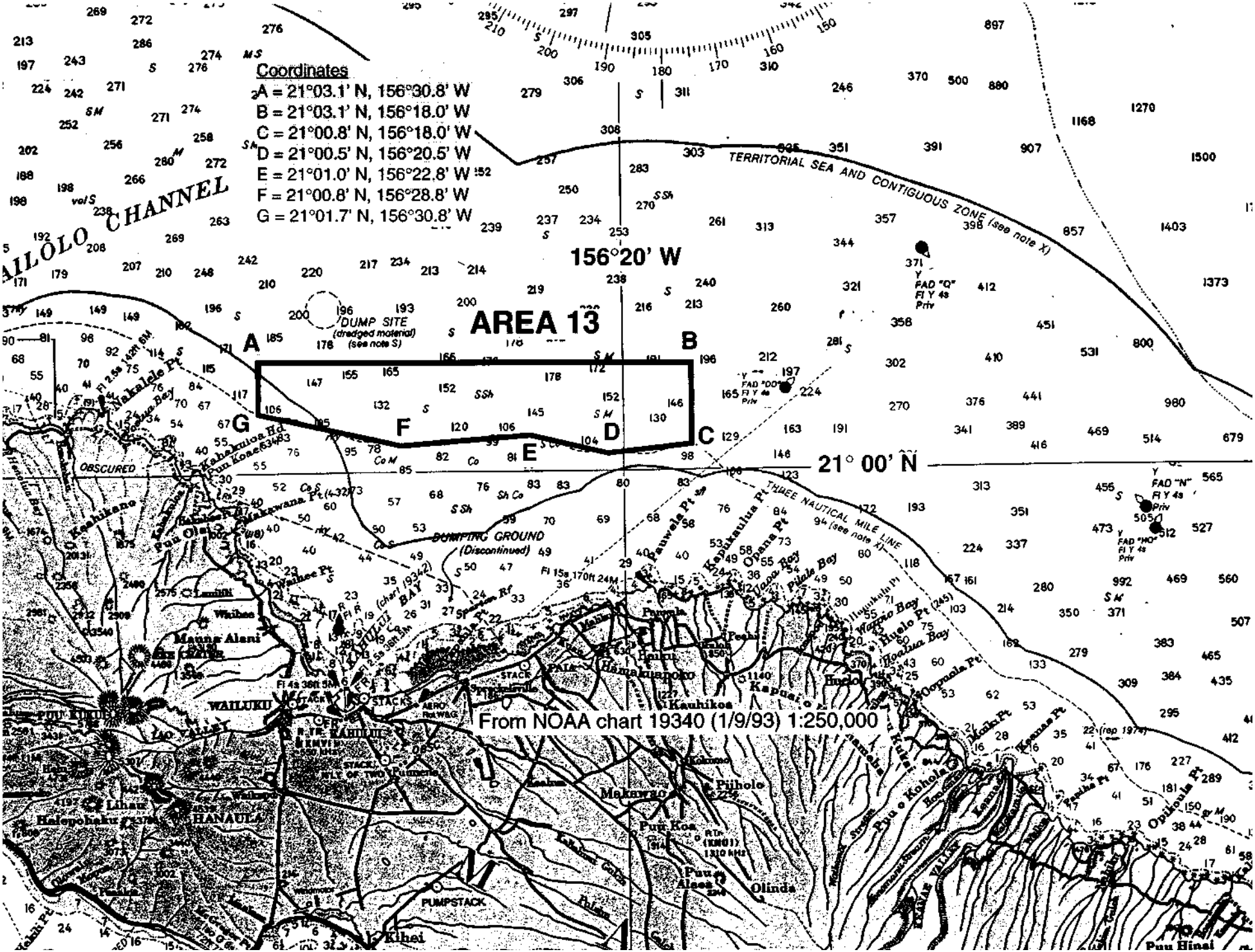

AREA 6
21°20' N
157°40' W
A
B
C
D
Coordinates
A = 21°21.3' N, 157°37.1' W
B = 21°19.8' N, 157°33.9' W
C = 21°18.8' N, 157°33.9' W
D = 21°20.3' N, 157°37.1' W
AREA 7
A
B
C
D
E
F
G
Coordinates
A = 21°14.6' N, 157°44.8' W
B = 21°14.8' N, 157°44.0' W
C = 21°14.5' N, 157°43.6' W
D = 21°14.1' N, 157°43.6' W
E = 21°13.8' N, 157°43.3' W
F = 21°13.0' N, 157°43.3' W
G = 21°13.8' N, 157°44.8' W
WAIMANALO
WAIMANALO BEACH
Puu o Kona
Manana I (Rabbit I)
Kaohikaipu I
MAKAPUU PT
Makapuu Head
Koko Head
Maunalua Bay
Hanauma Bay
Kawaihoa Pt
RESTRICTED AREA 334.1410 (see note A)
LIGHT OBSCURED
From NOAA chart 19357 (9/21/96) 1:80,000

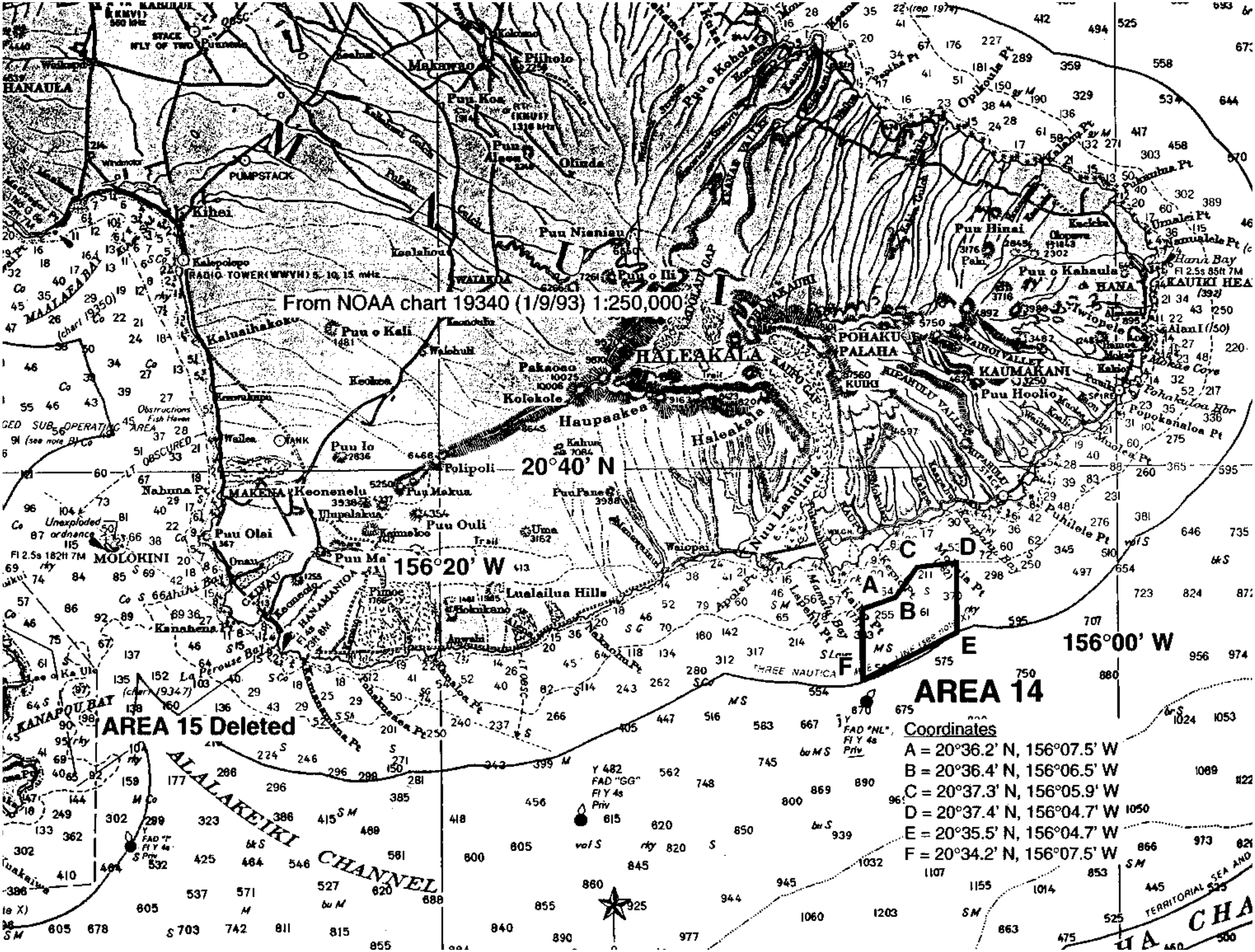

From NOAA chart 19357 (9/21/96) 1:80,000
AREA 8
A
B
C
D
E
F
21°20' N
158°00' W
Coordinates
A = 21°16.1' N, 158°06.6' W
B = 21°15.4' N, 158°04.8' W
C = 21°15.3' N, 158°04.0' W
D = 21°14.4' N, 158°03.0' W
E = 21°13.6' N, 158°03.0' W
F = 21°15.0' N, 158°06.6' W
Puu Makakilo
HONOULIULI
Laulaunui I
WAIPIO PEN
PEARL
Puu Palailai
Puu Kapolei
EWA
KAHE PT
Barbers Point Harbor
BARBERS PT
SISAL
Oahu R.R.
Iroquois Pt
Bishop Pt
Keahi Pt
Ewa Beach
Breakers
DANGER ZONE 334.1360 (see note A)
DANGER ZONE 334.1370 (see note A)
SMALL ARMS FIRING AREA (see note)
RESTRICTED AREA 334.1400 (see note A)
RESTRICTED ANCHORAGES 110.236 (see note A)
PROHIB ANCH 110.236 (see note A)
COLREGS

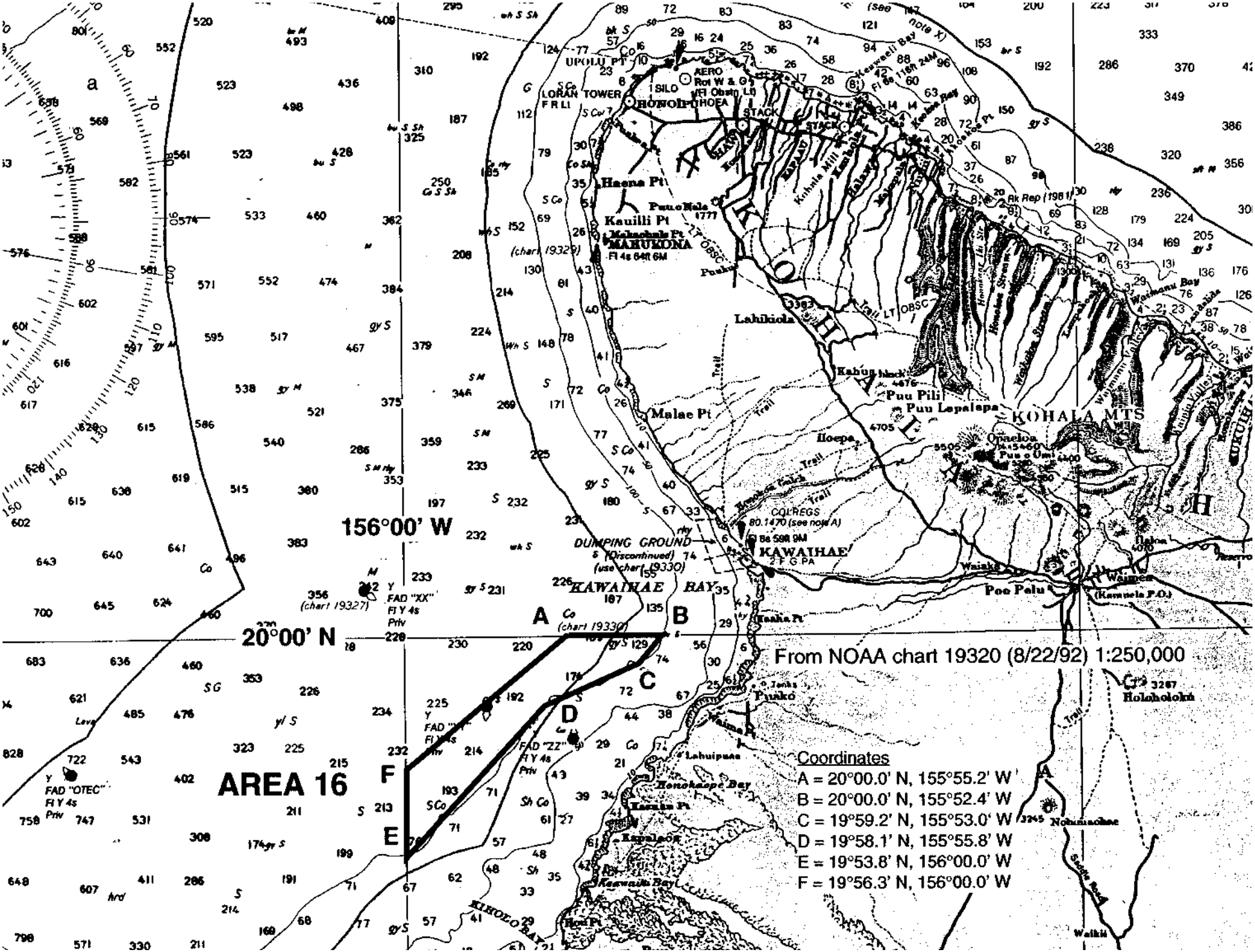

From NOAA chart 19340 (1/9/93)
KAIWI CHANNEL
PENGUIN BANK
Coordinates
A = 21°02.9' N, 157°47.0' W
B = 21°02.9' N, 157°41.7' W
C = 20°59.0' N, 157°44.0' W
D = 20°59.0' N, 157°47.0' W
AREA 9
157°40' W
21°00' N
AREA 10
Coordinates
A = 20°57.0' N, 157°33.2' W
B = 20°57.9' N, 157°27.4' W
C = 20°54.5' N, 157°27.4' W
D = 20°54.5' N, 157°33.2' W
ILIO PT
LAAU PT
SUBMERGED SUBMARINE OPER
(see note B) 605
FAD AREA (see note E)

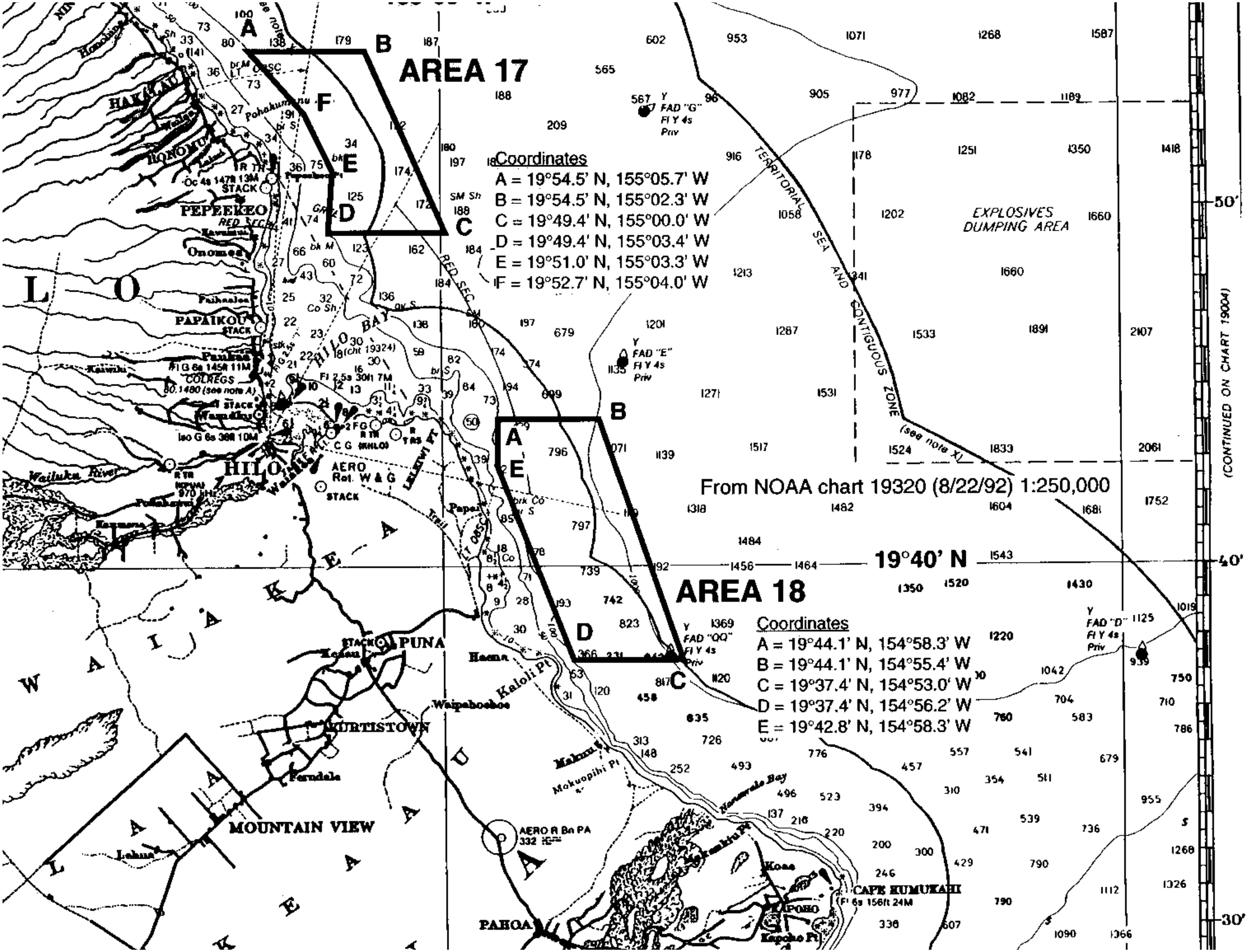

AREA 11
21°20' N
157°00' W
From NOAA chart 19340 (1/9/93) 1:250,000
A
B
C
D
E
F
Coordinates
A = 21°19.4' N, 157°15.3' W
B = 21°15.8' N, 157°03.6' W
C = 21°13.3' N, 157°03.6' W
D = 21°15.4' N, 157°09.6' W
E = 21°15.8' N, 157°13.3' W
F = 21°16.8' N, 157°15.3' W
THREE NAUTICAL MILE LINE
ILIO PT
KALAUPAPA PENINSULA
Kalaupapa
Puu Kaiaka
Na Puu Kai
Puu Koai
Puu Kaheu
Eleuweuwe
Puu Luahine
Puu Kaeo
Puu Alii
OLOKUI
KAUNUOHUA
KAMAKOU
Puu Kolekole
Puu Ohelo
Halawa
Koalii
Kaunakakai Hbr
Kamalo Hbr
Pukoo Hbr
Pauwalu Hbr
SUBM SUB OPERATING
KALOHI CHANNEL
O L O K A I

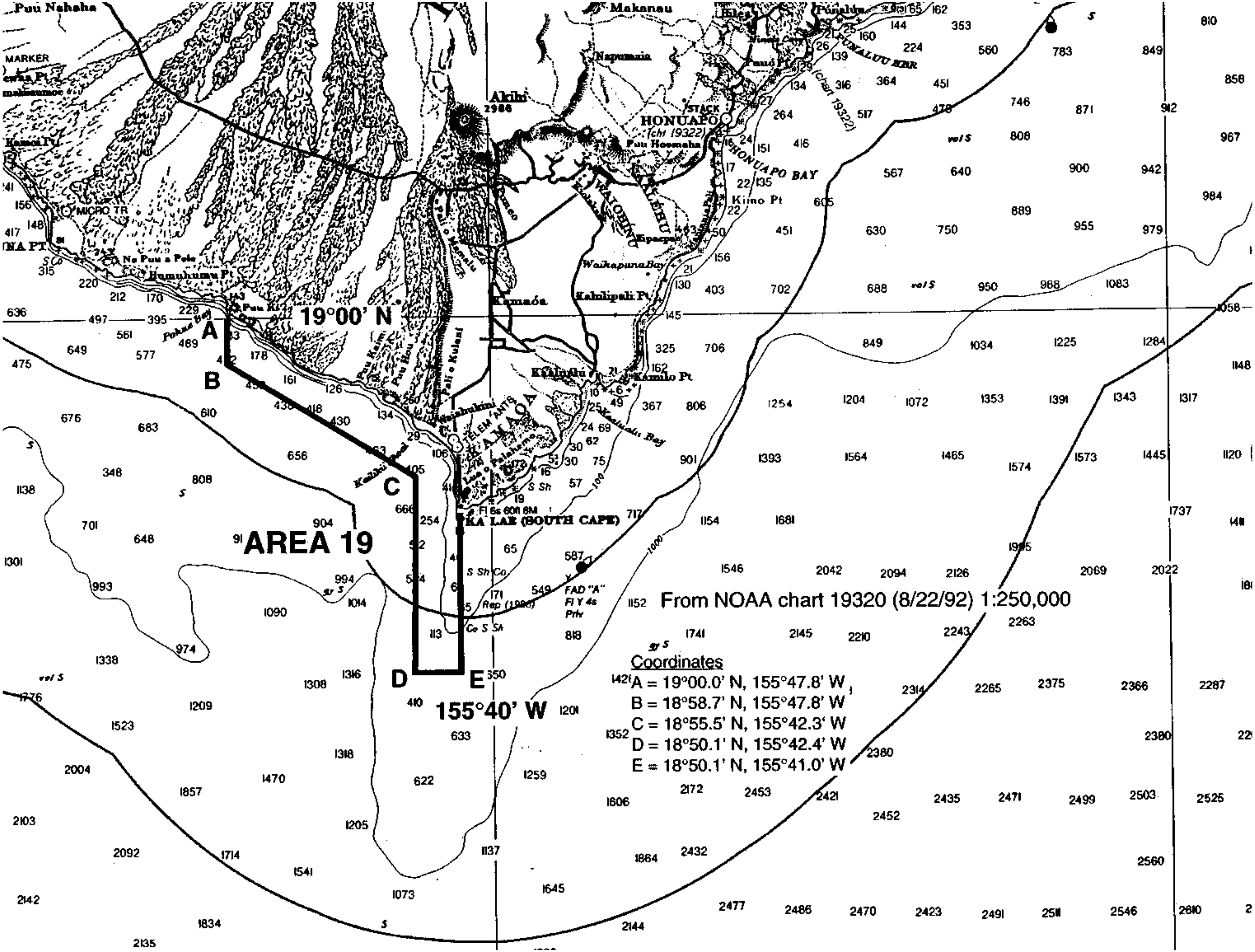

From NOAA chart 19340 (1/9/93) 1:250,000
Coordinates
A = 21°01.8' N, 156°50.8' W
B = 20°57.7' N, 156°45.3' W
C = 20°56.4' N, 156°45.7' W
D = 20°56.2' N, 156°48.0' W
E = 20°59.3' N, 156°50.9' W
F = 20°58.0' N, 156°53.0' W
G = 20°58.4' N, 156°54.2' W
H = 21°00.3' N, 156°53.4' W
AREA 12
KALOHI CHANNEL
PAILOLO CHANNEL
156°40' W
21°00' N
CAPE HALAWA
Halawa Bay
Kahin Pt.
KALAUPAPA PENINSULA
THREE NAUTICAL MILE LINE (see note X)
SUBM SUB OPERATING AREA (See note B)
LIPOA PT.
Kahana
Honokowai
Kaena Pt.
Punnoa Pt
Lahaina
Puu Kolekole
Puu Papai
Kawela
Puu Kaeo
Puu Alii
OLOKUI
Puu Ohelo
Pukoo
Keahiakalio
Koalii
Kahei Pt
Nakalele Pt
Keahikano
OBSCURED


Coordinates
A = 21°03.1' N, 156°30.8' W
B = 21°03.1' N, 156°18.0' W
C = 21°00.8' N, 156°18.0' W
D = 21°00.5' N, 156°20.5' W
E = 21°01.0' N, 156°22.8' W
F = 21°00.8' N, 156°28.8' W
G = 21°01.7' N, 156°30.8' W
AREA 13
156°20' W
21° 00' N
TERRITORIAL SEA AND CONTIGUOUS ZONE (see note X)
THREE NAUTICAL MILE LINE (see note X)
DUMP SITE (dredged material) (see note S)
DUMPING GROUND (Discontinued)
WAILOLO CHANNEL
WAILUKU
HANAULA
Makawao
Olinda
Kihei
PUMPSTACK
From NOAA chart 19340 (1/9/93) 1:250,000

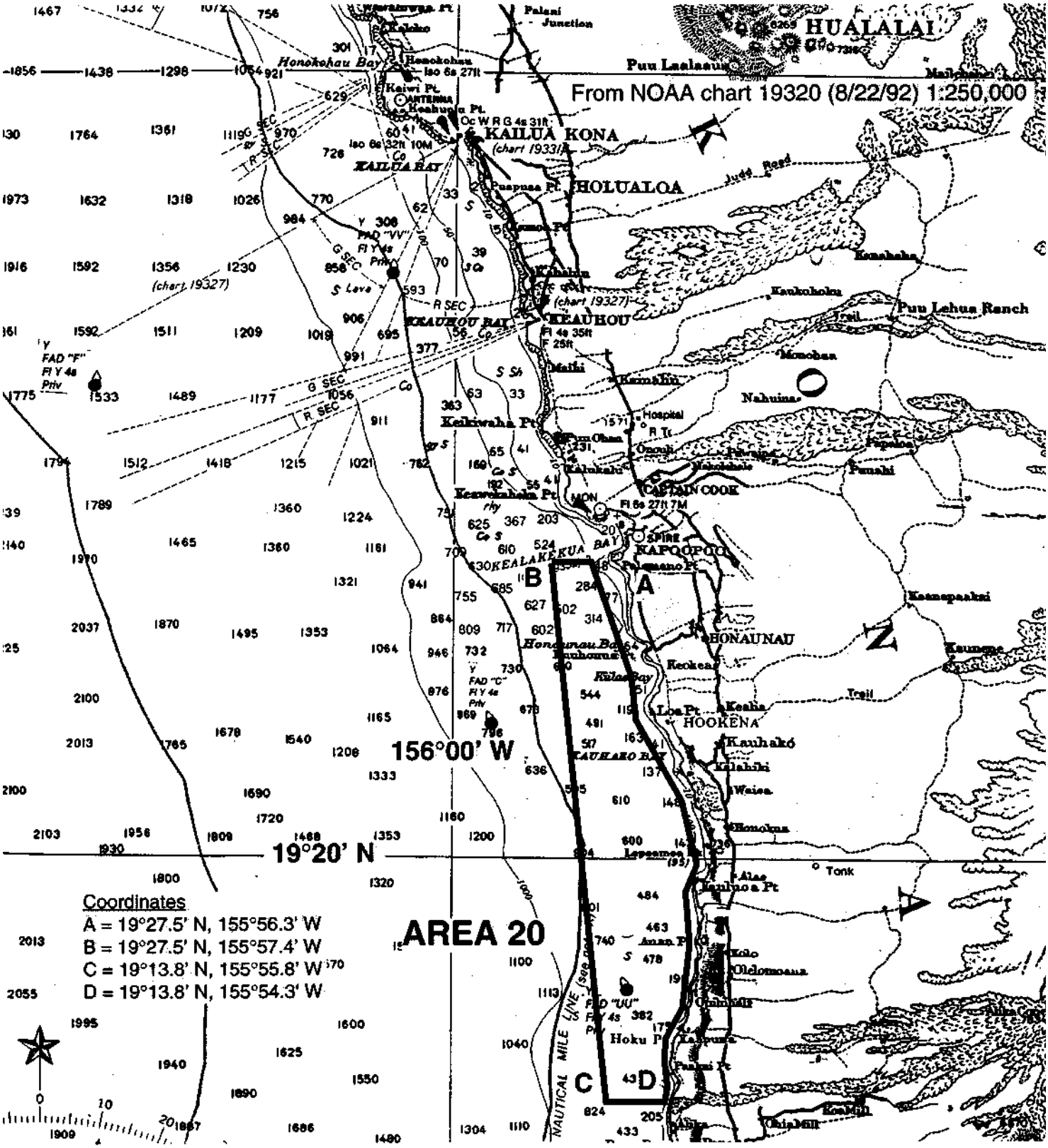

From NOAA chart 19340 (1/9/93) 1:250,000
20°40' N
156°20' W
156°00' W
AREA 14
AREA 15 Deleted
A
B
C
D
E
F
Coordinates
A = 20°36.2' N, 156°07.5' W
B = 20°36.4' N, 156°06.5' W
C = 20°37.3' N, 156°05.9' W
D = 20°37.4' N, 156°04.7' W
E = 20°35.5' N, 156°04.7' W
F = 20°34.2' N, 156°07.5' W
HALEAKALA
Kihei
MOLOKINI
ALALAKEIKI CHANNEL
MAALAEA BAY


156°00' W
20°00' N
AREA 16
A
B
C
D
E
F
KAWAIHAE BAY
DUMPING GROUND
KAWAIHAE
KOHALA MTS
From NOAA chart 19320 (8/22/92) 1:250,000
Coordinates
A = 20°00.0' N, 155°55.2' W
B = 20°00.0' N, 155°52.4' W
C = 19°59.2' N, 155°53.0' W
D = 19°58.1' N, 155°55.8' W
E = 19°53.8' N, 156°00.0' W
F = 19°56.3' N, 156°00.0' W


AREA 17
A
B
C
D
E
F
Coordinates
A = 19°54.5' N, 155°05.7' W
B = 19°54.5' N, 155°02.3' W
C = 19°49.4' N, 155°00.0' W
D = 19°49.4' N, 155°03.4' W
E = 19°51.0' N, 155°03.3' W
F = 19°52.7' N, 155°04.0' W
AREA 18
A
B
C
D
E
Coordinates
A = 19°44.1' N, 154°58.3' W
B = 19°44.1' N, 154°55.4' W
C = 19°37.4' N, 154°53.0' W
D = 19°37.4' N, 154°56.2' W
E = 19°42.8' N, 154°58.3' W
From NOAA chart 19320 (8/22/92) 1:250,000
19°40' N
50'
40'
30'
(CONTINUED ON CHART 19004)
EXPLOSIVES
DUMPING AREA
TERRITORIAL SEA AND CONTIGUOUS ZONE
(see note X)
RED SEC
HILO BAY
HILO
PEPEEKEO
PAPAIKOU
HAKALAU
HONOMU
Onomea
Wailuku River
AERO Rot. W & G
STACK
PUNA
Haena
Kaloli Pt
Waipahoehoe
HURTISTOWN
Ferndale
MOUNTAIN VIEW
AERO R Bn PA
PAHOA
Makuu
Mokuopihi Pt
CAPE KUMUKAHI
Kapoho Pt
Koae
POHO
L O
W A I A K E A
K E A A U
L A A
FAD "G"
FAD "E"
FAD "QQ"
FAD "D"



AREA 19
19°00' N
155°40' W
A
B
C
D
E
KA LAE (SOUTH CAPE)
HONUAPO
HONUAPO BAY
Akihi
Puu Nahaha
Makanau
From NOAA chart 19320 (8/22/92) 1:250,000
Coordinates
A = 19°00.0' N, 155°47.8' W
B = 18°58.7' N, 155°47.8' W
C = 18°55.5' N, 155°42.3' W
D = 18°50.1' N, 155°42.4' W
E = 18°50.1' N, 155°41.0' W


From NOAA chart 19320 (8/22/92) 1:250,000
HUALALAI
KAILUA KONA
HOLUALOA
KEAUHOU
CAPTAIN COOK
KAPOOPOO
HONAUNAU
HOOKENA
156°00' W
19°20' N
A
B
C
D
AREA 20
Coordinates
A = 19°27.5' N, 155°56.3' W
B = 19°27.5' N, 155°57.4' W
C = 19°13.8' N, 155°55.8' W
D = 19°13.8' N, 155°54.3' W