

1978

TIDE CALENDAR

Dillingham Corporation



"Moods of the Sea"

Hawaii is many things to those of us who live on her shores and love her. But there is one thing she is to all of us . . . Hawaii is the sea.

Eternal yet ever-changing, her expression can be tranquil or stormy, angry or serene. Throughout the islands, in all seasons, the sea constantly beguiles us with her quicksilver personality changes. Makaha's winter surf may explode over the surfers who challenge them, while swimmers, snorkelers, and scuba divers bask in the calm waters of Hanauma Bay.

This year, Dillingham's Tide Calendar displays some of the moods of the sea as captured by Robert Wenkam's camera. As you view each month's photo, you may recognize a few facets of the sea's personality.

We hope you enjoy these beautiful and distinctive seascapes and are reminded of our "blue belt," the magnificent Pacific we in Hawaii share.

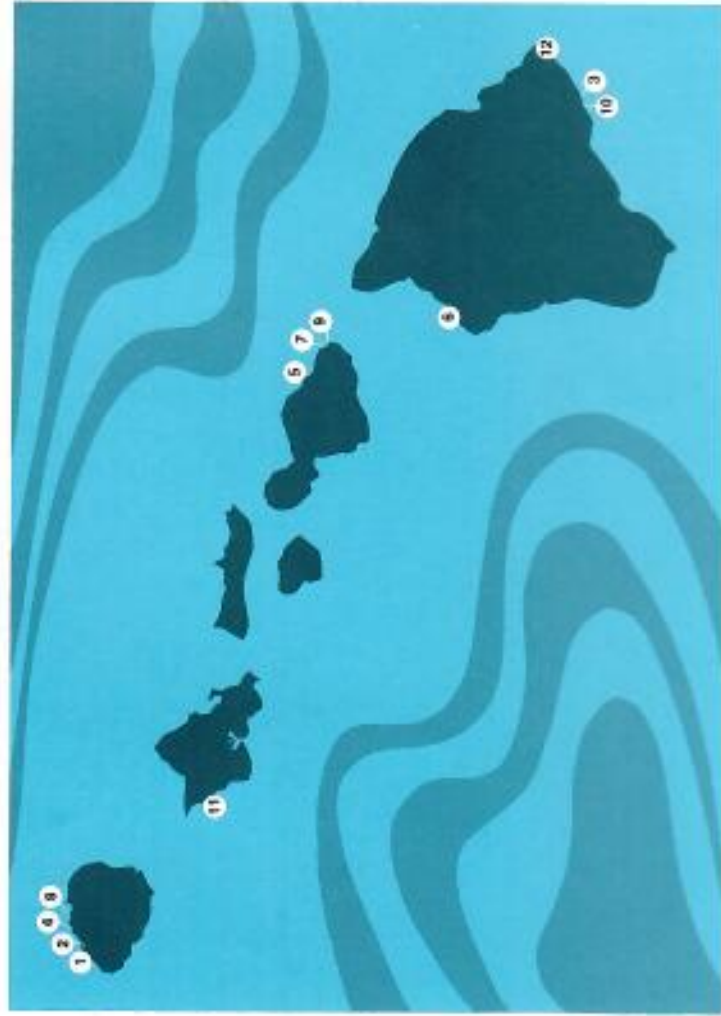
Wenkam's photos are part of a pictorial inventory of Hawaii's scenic resources, produced under a grant provided by the State Foundation on Culture & the Arts. We are indebted to the Foundation's director, Alfred Preis, for permitting Dillingham to reproduce these photos.

Traditional and contemporary proverbs translated from the Hawaiian language by Jean Charlot and his son, John, accompany the pictures.*

LEATRICE H. HIGA
Production Coordinator

ALEC BAIRD
Designer

Copyright 1977, Dillingham Corporation



JANUARY

(1) Na Pali, Kaua'i

The rugged Na Pali coastline on the northwest shore of Kauai is accessible only by boat, helicopter or hiking trail. Na Pali, which means "the cliffs," offers a spectacular view of deep narrow valleys and promontories above the sea.

January's photo presents Na Pali in winter.

FEBRUARY

(2) Kalalau Beach, Kaua'i

The sands of Kalalau on the Na Pali coast lie beneath the towering cliffs which rise to 2,000 feet.

In winter, most of the sandy beach disappears under a pounding surf, but in this summer photo, Kalalau Beach appears tranquil and serene.

JULY

(7) Hana, Maui

This is the birthplace of Queen Kaahumanu, Kamehameha's favorite wife, who was born in a cave along the shore of Hana Bay.

Hana, on East Maui, is open to the northeast tradewinds that bring long swells into the bay.

Sand mixed with decomposed lava gives the beach its somber, gray hue.

AUGUST

(8) Waikoko, Kaua'i

Waikoko, on the eastern end of Lumahai Beach on Hanalei Bay, is a photographer's delight. Framed with palm and pandanus plants, Waikoko Beach displays the quiet charms, smooth sands, and soft waves, which have made it one of the most photographed beaches on Kauai.

About the photographer:



ROBERT WENKAM

Robert Wenkam is an author, a photographer, and a noted conservationist.

His love for Hawaii is evident in the many books and

photographs he has produced. Wenkam's pictorial publications include "Maui: The Last Hawaiian Place," "Kauai and the Park Country of Hawaii," "Hawaii, the Big Island," and "Hawaii, Kauai/Oahu/Maui/Molokai/Hawaii/Lanai."

Born in Oakland, Wenkam has called Hawaii home since 1941.

He began his own commercial photography business in 1950, specializing in architectural photography, and later expanded into editorial and advertising photography. For five years he produced all the national advertising photographs and posters for the Hawaii Visitors Bureau.

Wenkam's recent years have been devoted to environmental activities, writing and photographing on organizational themes, and serving national conservation organizations.

He organized the Hawaii chapter of the Sierra Club and was its first chairman. He is a past president of the Federation of Western Outdoor Clubs and is the editor of the Federation's magazine, "Outdoors West."

Wenkam is currently at work on two photographic books, one with Honolulu as its subject, the other on Southern California.

Inquiries about Bob Wenkam's photographs and publications should be addressed to 1319 Kalakaua Avenue, Suite 2, Honolulu, Hawaii 96814.

A word of appreciation:

We would like to thank Jean and John Charlot for their important contribution to the 1978 Tide Calendar.

Jean Charlot is one of Hawaii's finest contemporary muralists. He is also a sculptor, an author, and a playwright. Jean recently received Hawaii's Order of Distinction for Cultural Leadership.

John Charlot, a philosopher and theologian by training, was named one of America's outstanding young men in 1971. He is currently a lecturer in Hawaiian culture and religion at the University of Hawaii.

Appreciation is also extended to the Pacific Scientific Information Center at the Bishop Museum for its assistance in clarifying the historic and geographic information compiled for each month's location description.

(3) Kaimu Shore, Hawaii'
Kaimu, formerly called Ho'ou and Kapoho, means "gathering (at the) sea (to watch surfing)."

This black sand beach on the east end of the Big Island has hazardous currents and was once a noted surfing site.

APRIL

(4) Ha'ena Bay, Kauai'

Haena Bay on north Kauai is the idyllic south sea island setting. "Bali Hai," captured in the film, "South Pacific."

When the moon is full and the tide is low, fishermen enjoy reef fishing for 'moonlight fish,' upapahu, in this calm, quiet setting. Offshore reefs provide excellent conditions for torch and spear fishing.

MAY

(5) Ke'anae, Maui

On the northeast coast of Maui is the Keanae Peninsula, an old Hawaiian settlement where the historic Keanae Church, built in 1860, still stands. Taro is still grown there.

Keanae, which means "mullet," is bordered by the verdant hills above Nahiku and the azure Pacific.

JUNE

(6) Kiholo Bay, Hawaii'

In the old days, Kiholo was also the name of a fishpond said to have been built by Kamehameha I. This pond was destroyed by a lava flow in 1859 when, the story goes, the volcano goddess Pele was hungry for the awa and mullet there.

Kiholo, meaning "fishhook," is on the west coast of the Big Island, north of Kailua-Kona.

(9) Ka'uiki Head, Maui
Ka'uiki Head guards the entrance to Hana Bay. Ka'uiki, a cinder cone that rises from the east shore of Hana Bay, was considered the strongest defense position in Hana from which to repel invaders from the island of Hawaii.

Atop a fort that stood on the summit of Ka'uiki, Maui fighters used slingshots to hurl stones at their enemies.

OCTOBER

(10) Kalapana Black Sand Beach, Hawaii'

Kalapana's black sands were formed when molten lava exploded as it poured into the ocean. The ceaseless washing of the waves on the shore grinds the bits of lava into finer particles.

NOVEMBER

(11) Makaha, O'ahu

Located on the leeward side of Oahu, Makaha is one of the world's famous surfing beaches. It is the home of the annual Makaha International competition, first held in 1952.

Makaha means "fierce" and the winter surf here reflects that description with waves that soar as high as 30 feet.

DECEMBER

(12) Kapoho, Hawaii'

The small Puna community of Kapoho on the east coast of the Big Island, was covered by 40 feet of lava in the 1960 eruption of Kilauea volcano's east rift zone.

Molten rock spread across the land, covering roads and destroying homes and forests before spilling into the sea.

As the fiery lava touched the water, the sea resisted violently, sending steam billowing towards the sky.

ON THE COVER: Molokini Islet, a small crescent-shaped island with an area of 18.9 acres and an elevation of 150 feet, lies in the Alalakeiki Channel between the islands of Kahoolawe and Maui. According to the Hawaiian legend, Pele, the volcano goddess, became angered when her dream lover, Lohi'au took a mo'o (lizard) as his wife. Pele bisected the mo'o and her tail became Molokini Islet.

Molokini's tranquil setting captured in Wenkam's photograph introduces the various moods of Hawaii's waters depicted in the 12 pictures of the 1978 Tide Calendar.

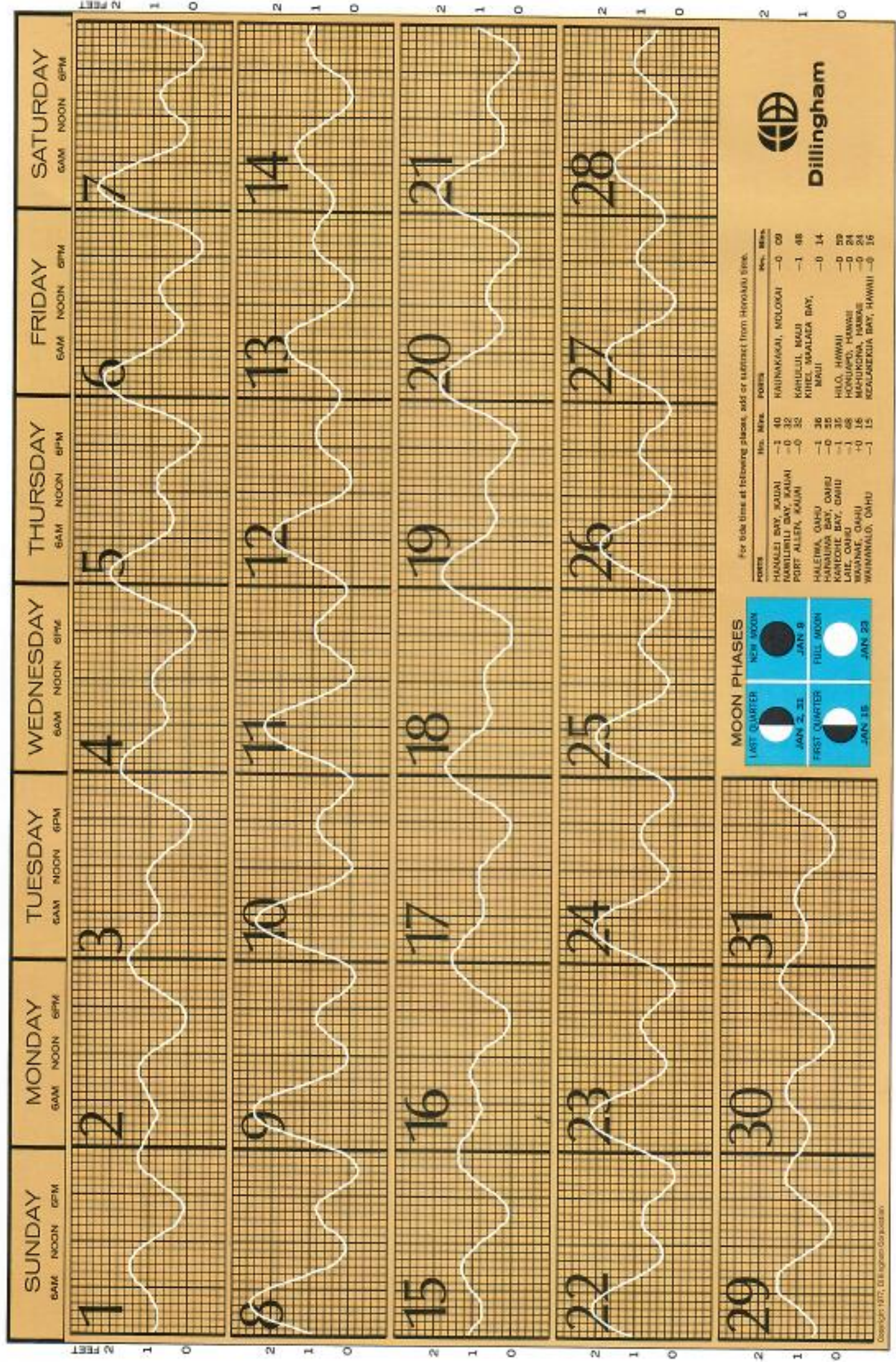
* Captions 4, 5, 6, 8, 9, and 11 are adapted from Henry P. Judd's "Hawaiian Proverbs and Riddles," published in 1926. Captions 1, 2, 3, 7, 10, and 12 are adapted from contemporary Hawaiian language sources.



ULI KE AOKŪ, 'ELEULI KE KAI, LĪ KA 'ILI.
KE KAU ANU I HO'OKUPA'A KO LAUA ALOHA!

*Rain clouds, gray sea, cold shivers,
Winter, the season beloved of lovers!*

JANUARY 1978 TIDE CHART



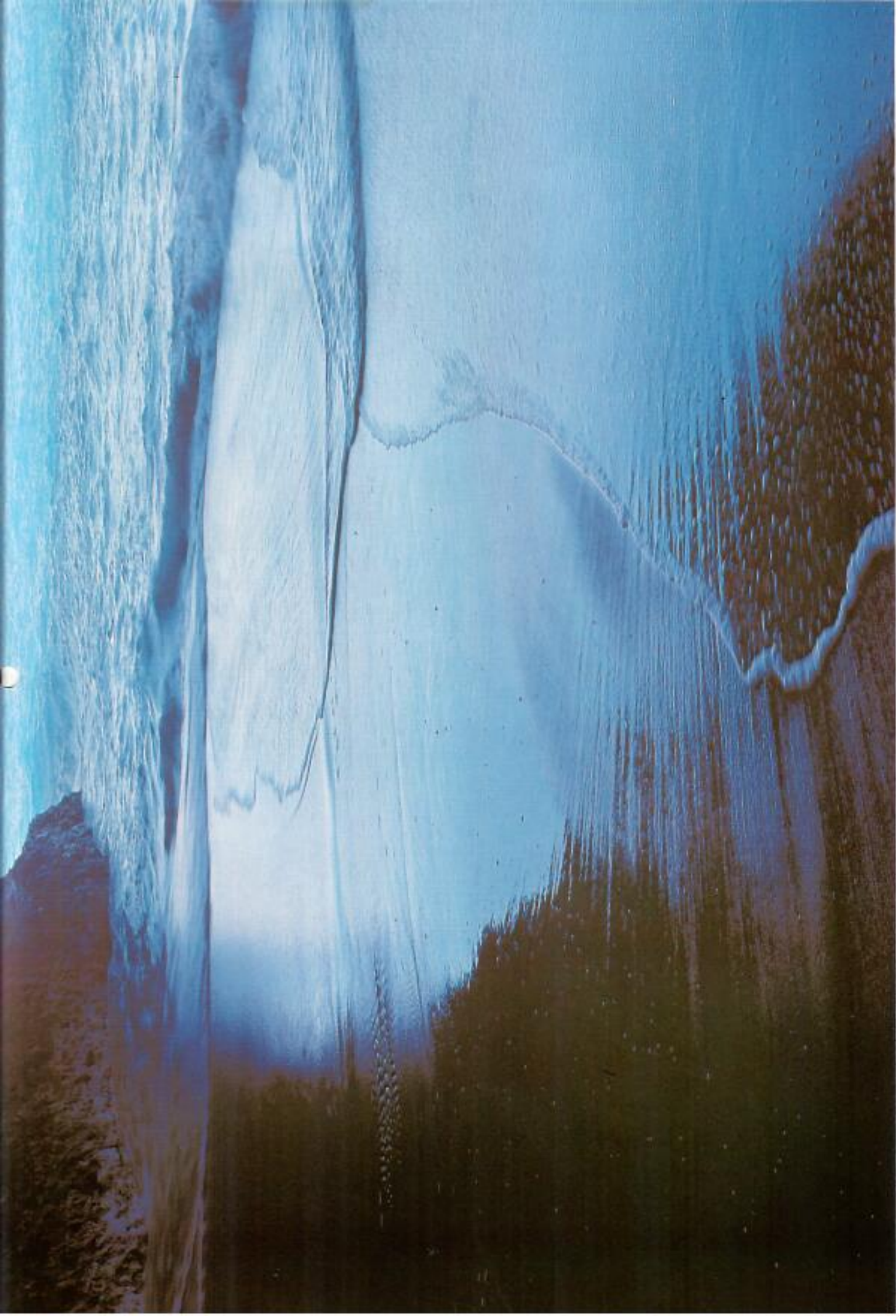
For tide time at following places, add or subtract from Honolulu time.

Place	Hrs. Mins.	Points	Hrs. Mins.
HANALEI BAY, KAUAI	-1 40	KAUNAKAKAI, MOLOKAI	-0 00
HAWAIIKI BAY, MAUI	-0 32	KAHULUI BEACH	-1 48
PORT ALLEN, MAUI	-0 32	KIHEI, MAUI	-0 14
HALEIWA, OAHU	-1 36	MAUI	-0 14
HANAULUA BAY, OAHU	-0 35	HILO, HAWAII	-0 00
KANEHOE BAY, OAHU	-1 35	HONOLULU, HAWAII	-0 00
LAIE, OAHU	-1 48	MAHUKONA, HAWAII	-0 24
WAIKANE, OAHU	-0 16	MAHUKONA, HAWAII	-0 24
WAIMANALO, OAHU	-1 15	KALANOKUA BAY, HAWAII	-0 16

MOON PHASES

LAST QUARTER JAN 2, 3E	NEW MOON JAN 9
FIRST QUARTER JAN 15	FULL MOON JAN 23

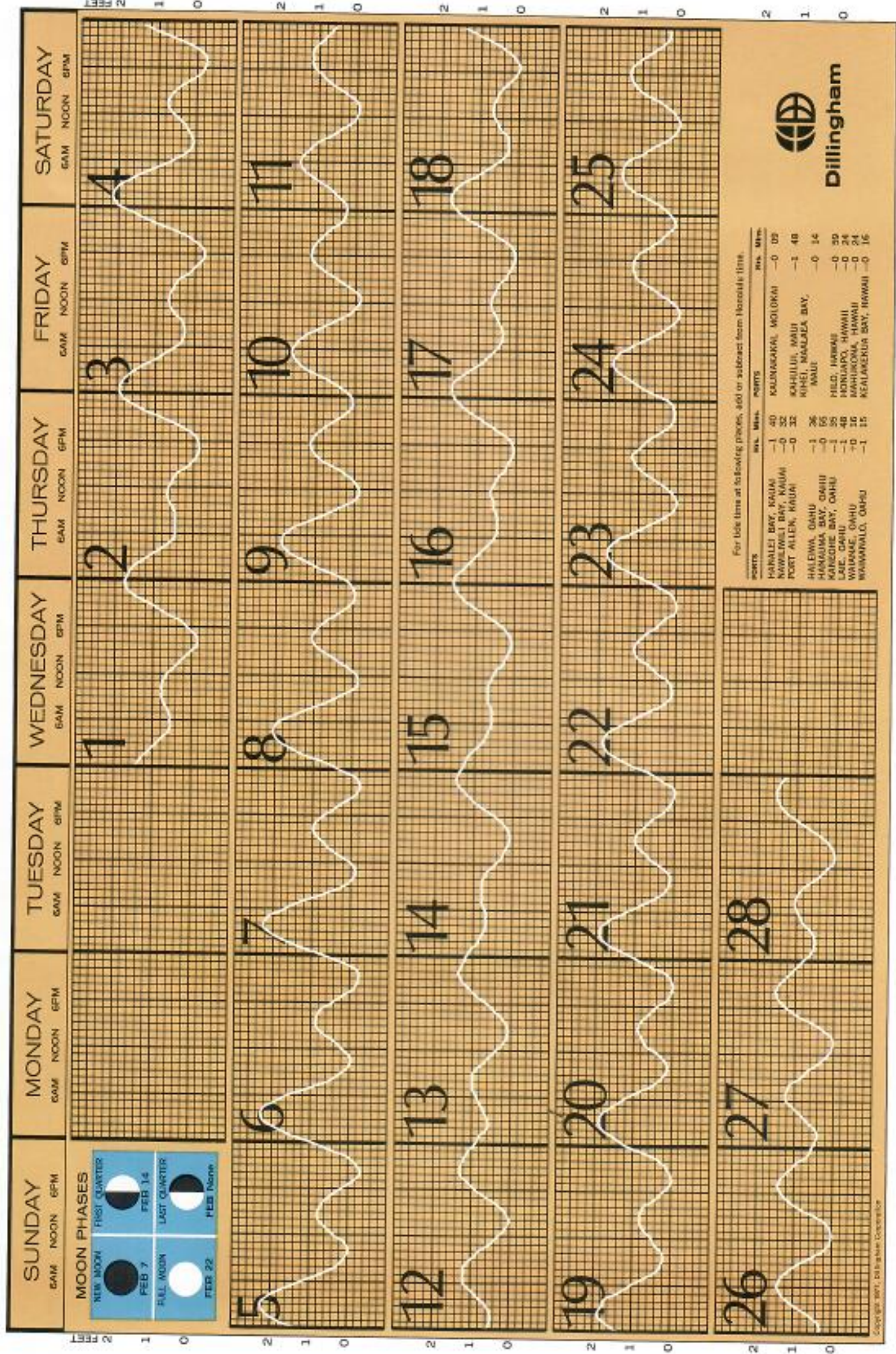




LĀ'I LUA KĀ HO'I KE KAI O KĒIA WAHI!

In this recessed cove, hoope peaceful the sea!

FEBRUARY 1978 TIDE CHART



For tide time at following places, add or subtract from Honolulu time.

PORTS	HLL. MEAS.	DIFFER.	Hrs. Mins.
HAWAII BAY, KAUI	-1 40		-0 05
NAWELWELI BAY, KAUI	-0 32		-1 48
PORT ALLEN, KAUI	-0 32		-0 14
HALEIWA, OAHU	-1 36		-0 39
HANAUMA BAY, OAHU	-0 55		-0 24
KANEHOE BAY, OAHU	-1 55		-0 24
LAKE, OAHU	-1 48		-0 24
WAIKANE, OAHU	-0 36		-0 24
WAIMANALO, OAHU	-1 15		-0 16
KALANIPANALUA, MOLOKAI	-0 05		-0 05
KAHULUI, MAUI	-1 48		-0 14
KIHEI, MAALAE BAY, MAUI	-1 36		-0 14
HILD, HAWAII	-1 55		-0 39
HONOLULU, HAWAII	-1 48		-0 24
MAHUKONA, HAWAII	-1 48		-0 24
KELAUKAUA BAY, HAWAII	-1 15		-0 16



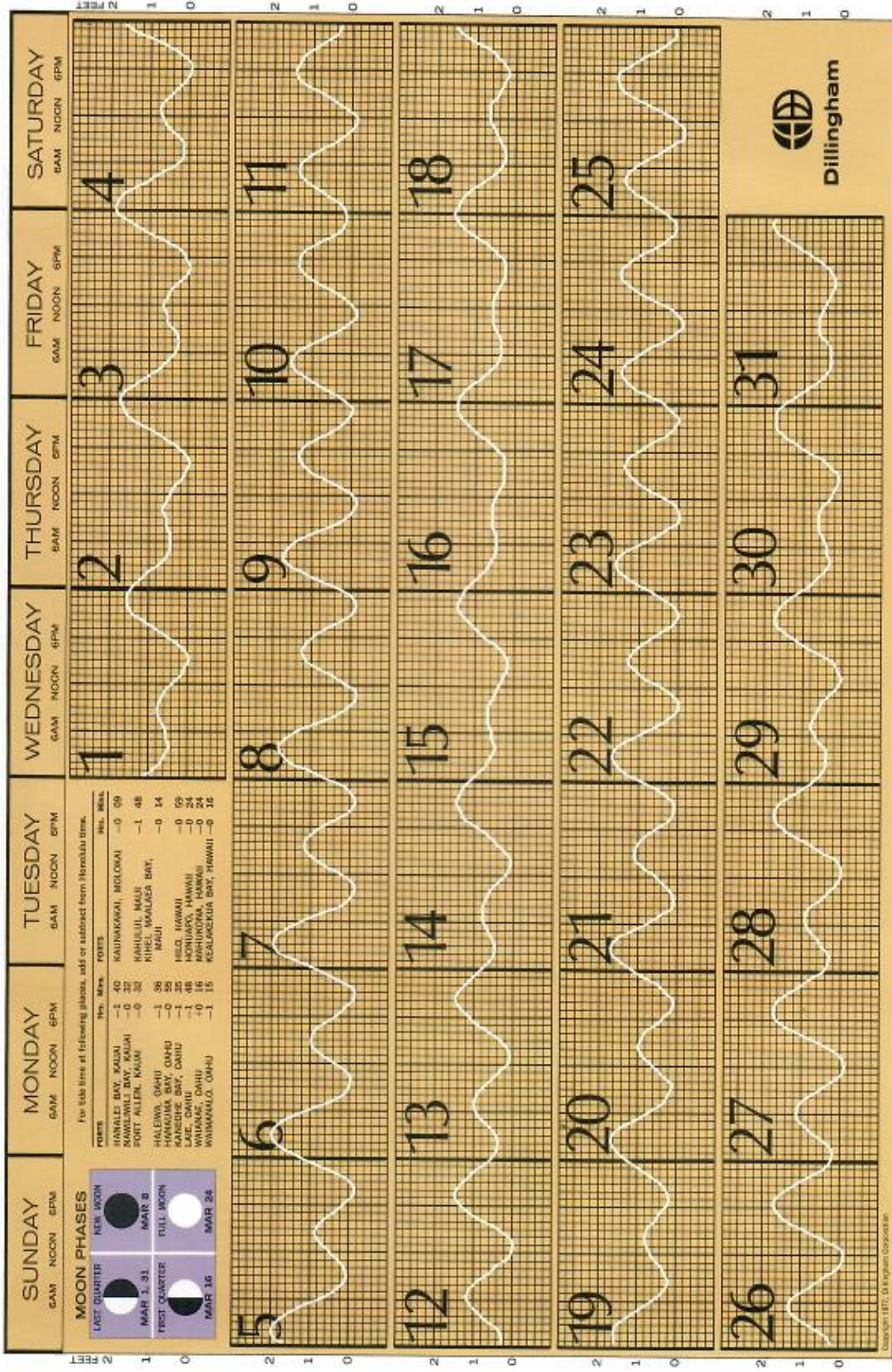
Dillingham



E HO'I KĀUA I KA 'EHU KAI MEHE MOI LA.

Our hair turned white, we two shall frolic as does the moi fish in the foam.

MARCH 1978 TIDE CHART

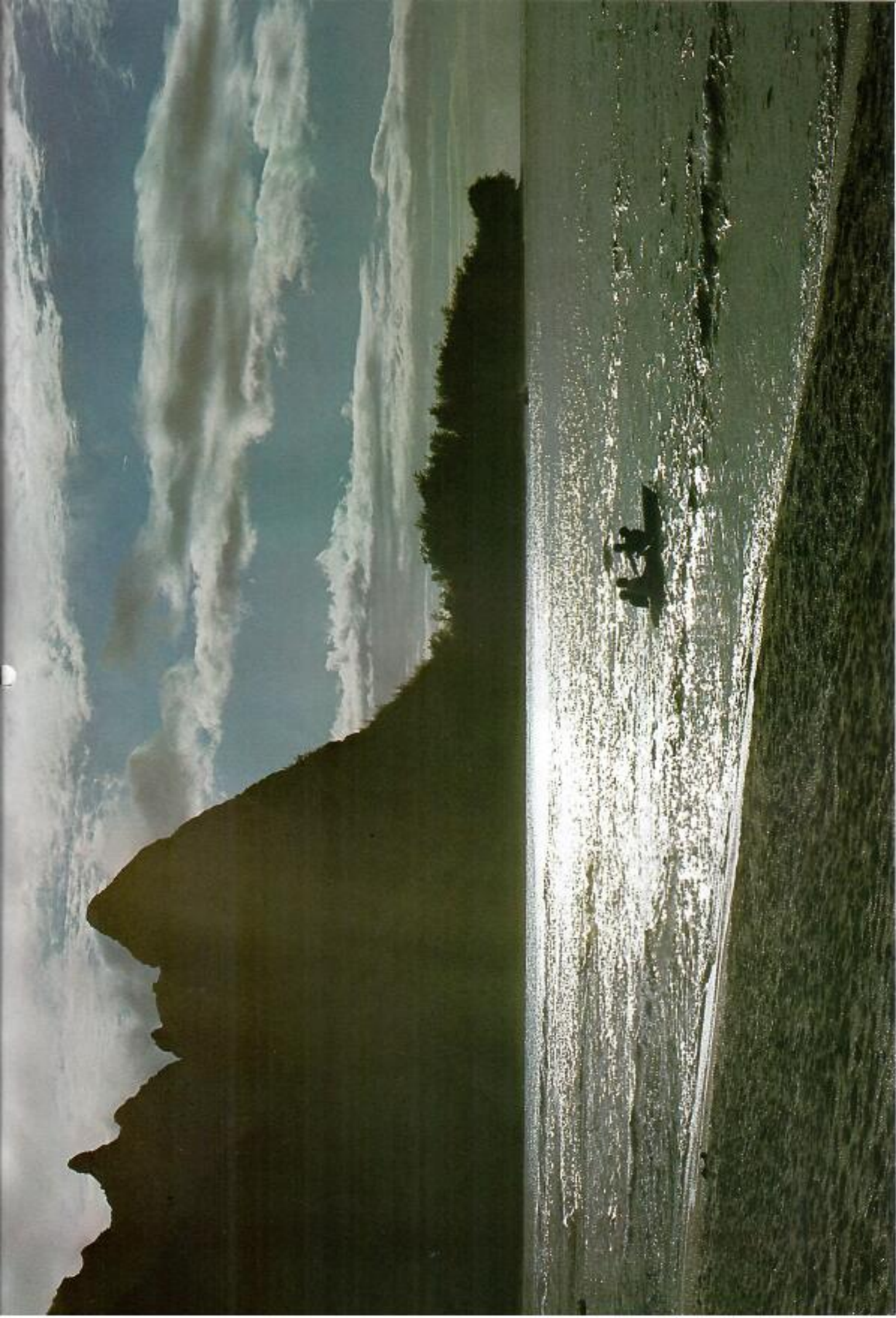


For tide line at following places, add or subtract from Honolulu time.

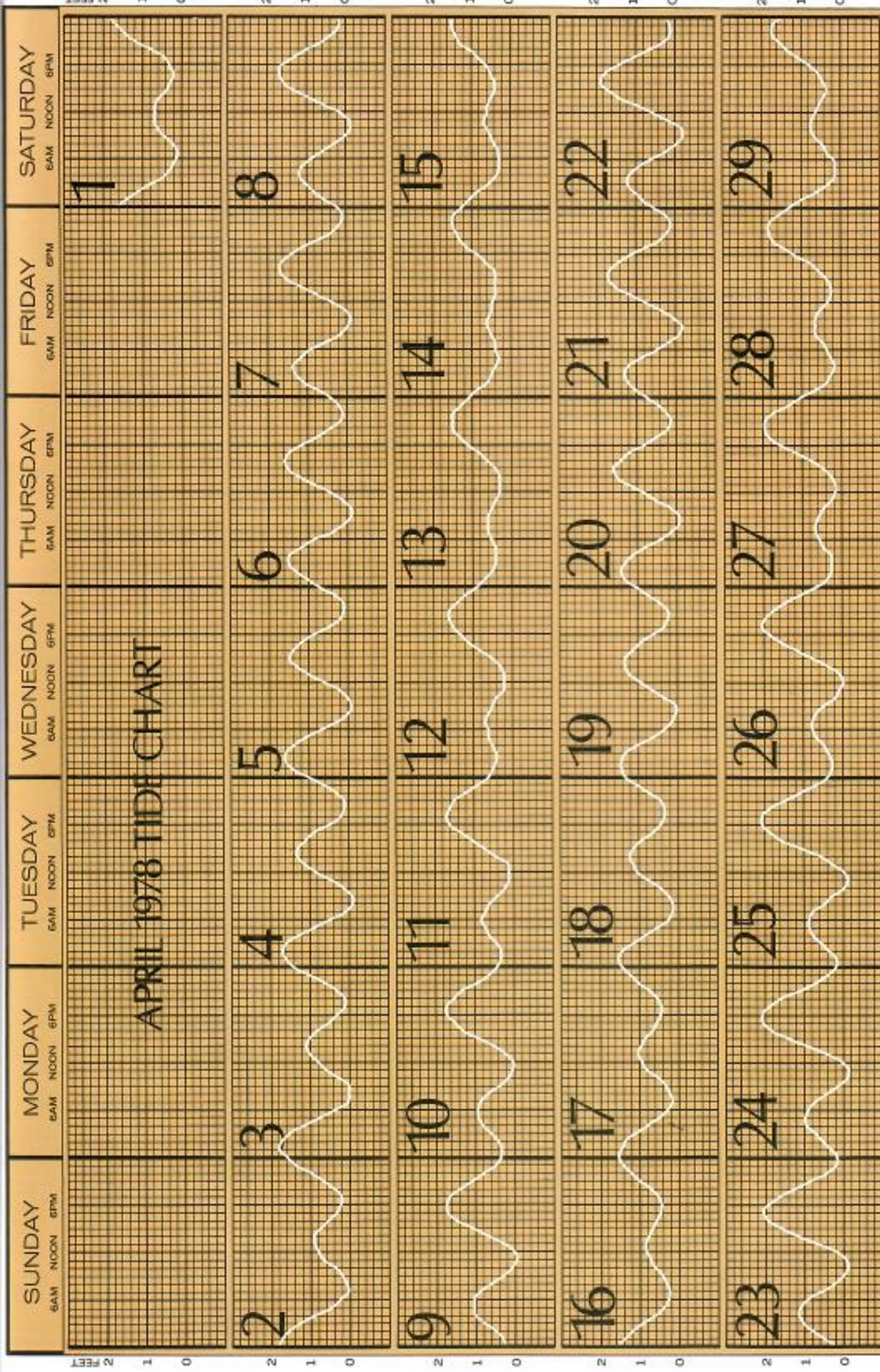
PLACES	Hrs. Min.	PORTS	Hrs. Min.
HANALEI BAY, KAUAI	-1 40	KAUNAKAKAI, MOLOKAI	-0 09
NAWILIWILI BAY, KAUAI	-0 32	KAHULUI, MAUI	-1 48
PORT ALLEN, MAUI	-0 32	KIHEI, MAUI	-0 14
HALEIWA, OAHU	-1 36	HILO, HAWAII	-0 09
HONOLULU BAY, OAHU	-1 35	HONOLULU, HAWAII	-0 24
KANEHOE BAY, OAHU	-1 48	KAUNAKAKAI, HAWAII	-0 24
LAIE, OAHU	-0 16	KAUNAKAKAI BAY, HAWAII	-0 16
WAIKANA, OAHU	-1 15		



Dillingham



LE'A KŪLOU A KA LAWAJA I KA MĀLIE.
The grateful fisherman bows deep to the becalmed ocean.



For use time at following places, add or subtract from Honolulu time.

PORTS	No.	Dist.	Ports	No.	Dist.
PUNAHU BAY, KAUAI	-1	40	KAUNAKOAE, MOLOKAI	-0	09
PONOHONO BAY, KAUAI	-0	32	KAHULUI, MAUI	-1	48
PORT ALLEN, KAUAI	-0	32	KIHEI, MAUI	-0	14
HALEIWA, OAHU	-1	56	HILO, HAWAII	-0	59
HONOLULU BAY, OAHU	-0	59	HONOLULU, HAWAII	-0	59
KANICOKE BAY, OAHU	-1	35	KAUNAOA, HAWAII	-0	24
LAIE, OAHU	-1	48	KEAHOE, HAWAII	-0	24
WAIKANE, OAHU	0	16	KEALAKEKUA BAY, HAWAII	-0	16
WAIKAWA, OAHU	1	15			

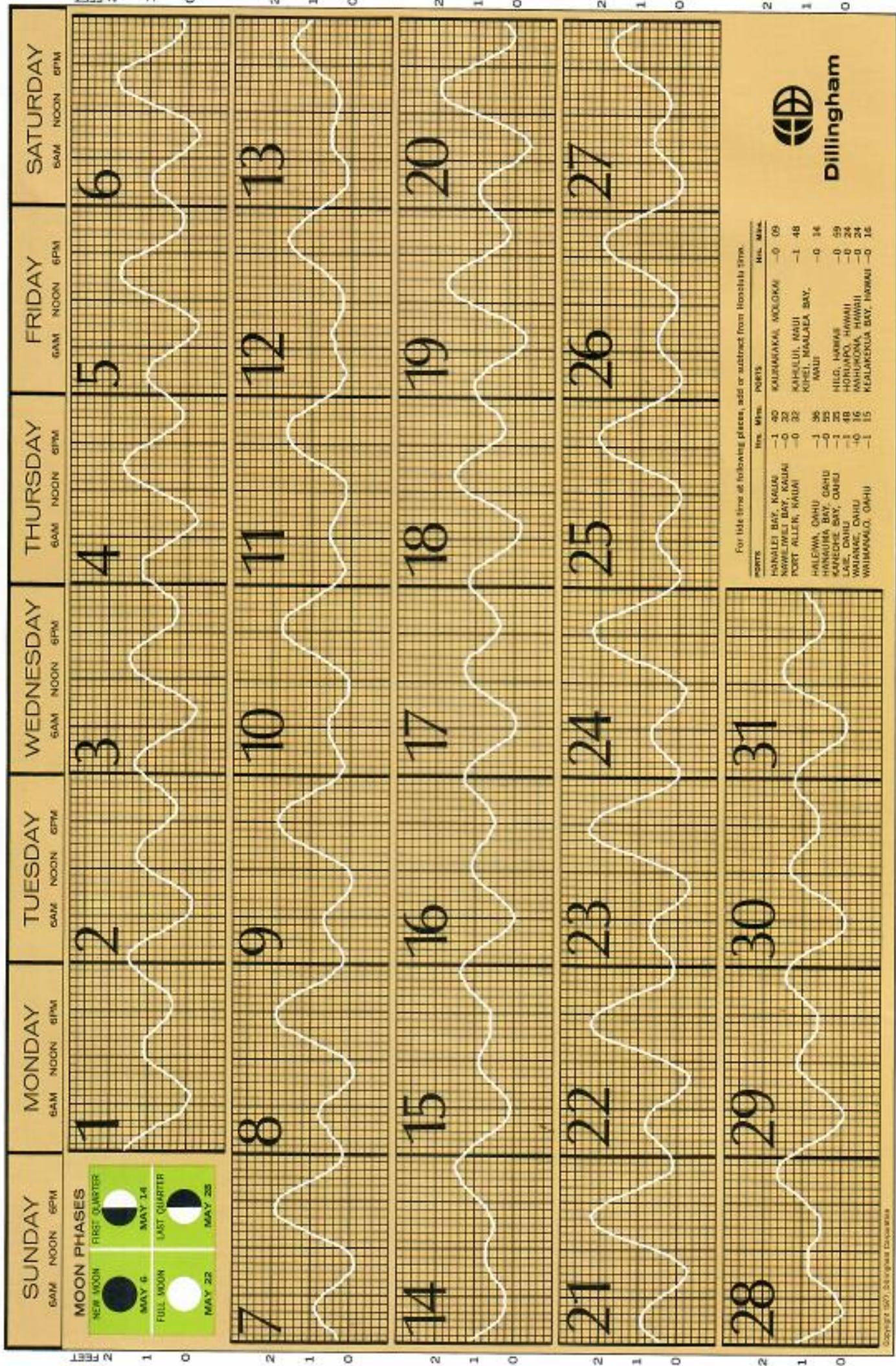


Dillingham

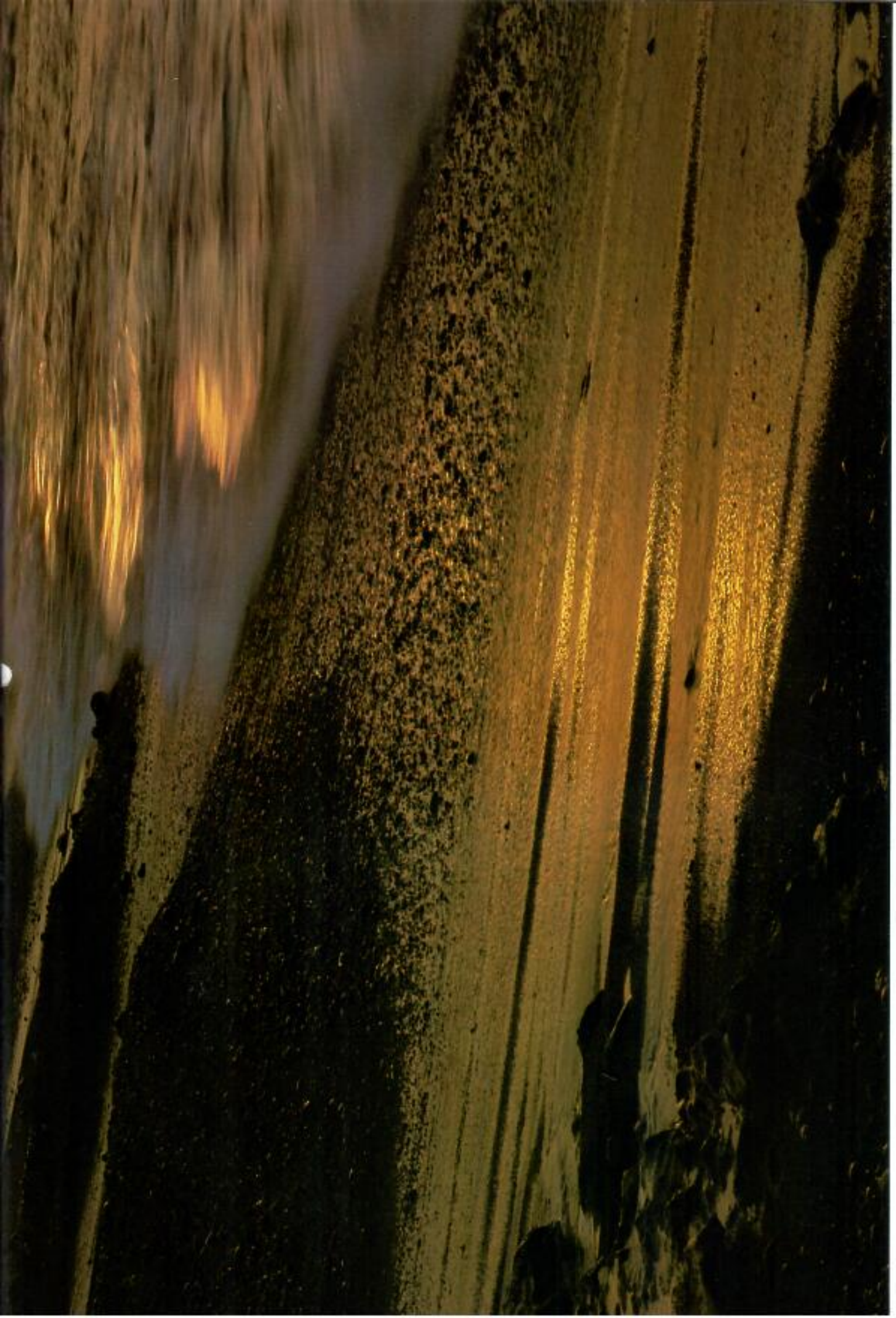


KĪ KAI, HUA KA 'ANAE.
When the sea sprays the mullet spawns.

MAY 1978 TIDE CHART

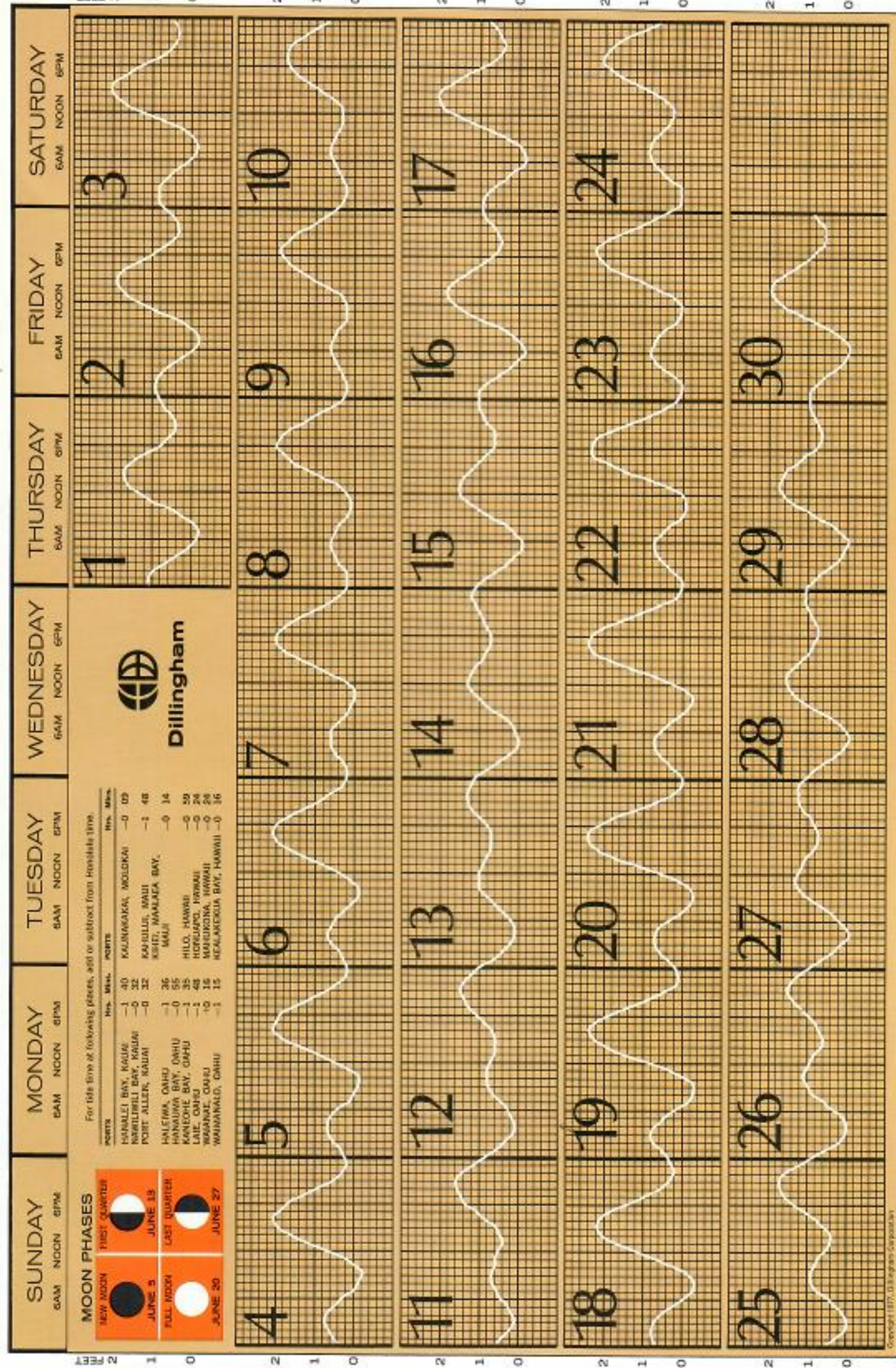


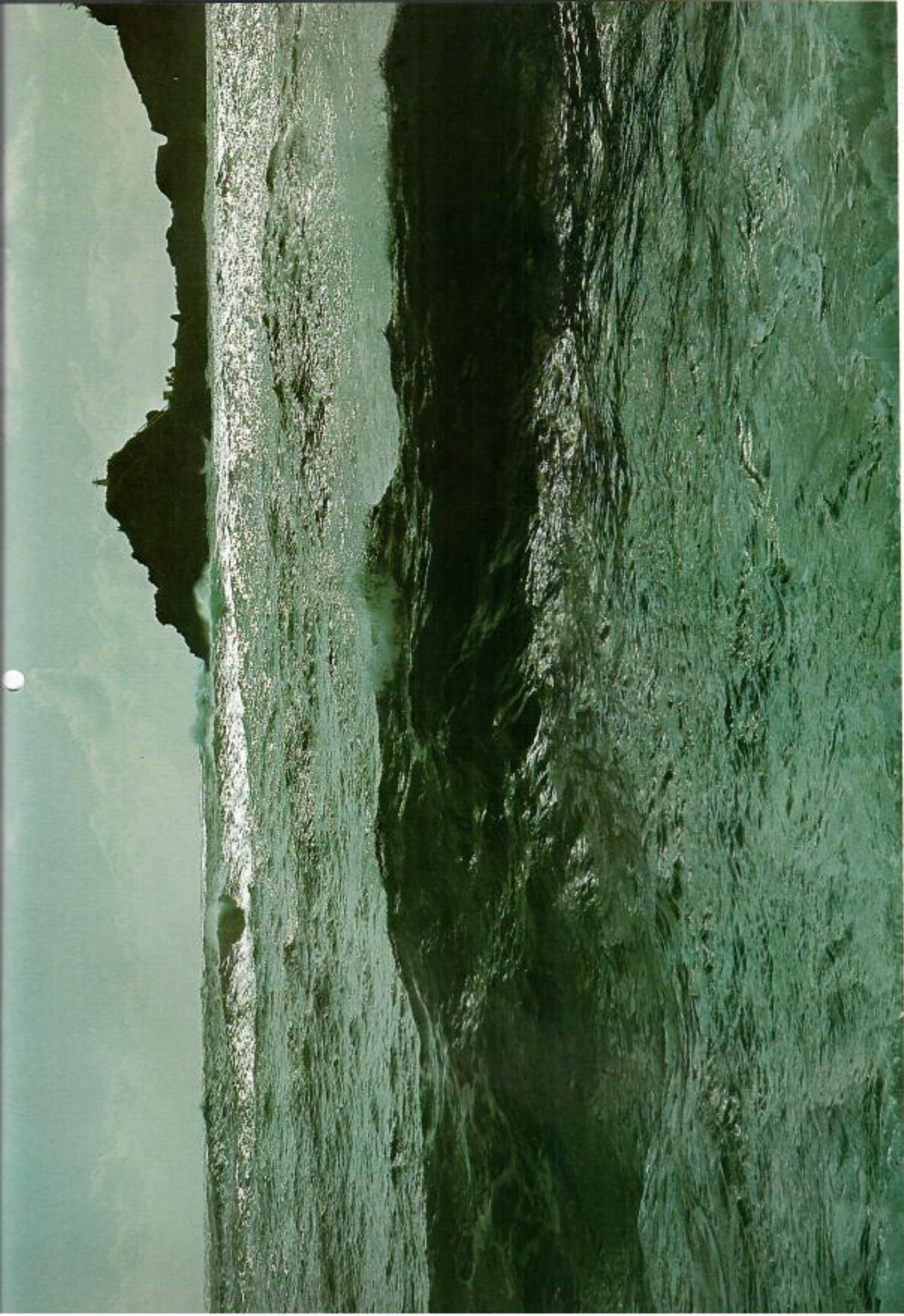
For tide time at following places, add or subtract from Honolulu time.



‘O KĀ’ELO KA MAHINA O KE AHO PULU A KA LAWAFA.
Come spring, glistening wet the fisherman’s trolling line.

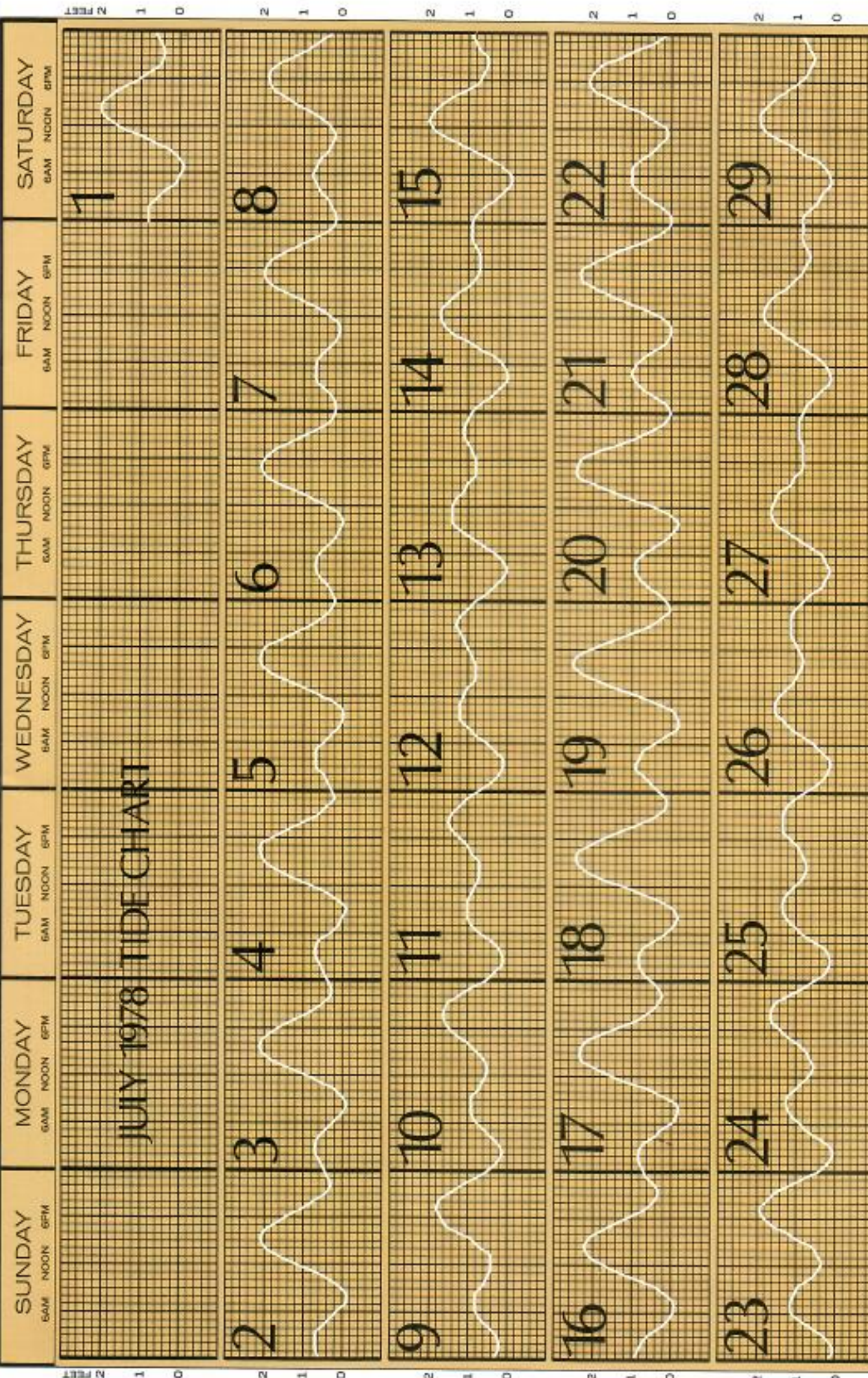
JUNE 1978 TIDE CHART





KO'O KE KAI, KIPA NO KE ONE.

The rougher sea, the more inviting the coast.



JULY 1978 TIDE CHART

MOON PHASES

NEW MOON JULY 4	FIRST QUARTER JULY 13
FULL MOON JULY 19	LAST QUARTER JULY 26

For tide time at following places, add or subtract from Honolulu time.

PLACES	Dist. Miles	Port	hrs	Mins
HAWAII BAY, KAUAI	-1	40		
MARLBOROUGH BAY, KAUAI	-0	32		00
PORT ALLEN, KAUAI	-0	32		48
LALEIWA, OAHU	-1	26		14
HAWAIIA BAY, OAHU	-0	55		
KANEHOE BAY, OAHU	-1	35		50
LAIE, OAHU	-1	48		24
WAIANAI, OAHU	-1	16		24
WAIMANALO, OAHU	-1	15		38
KAUNAKOHALI, MOLOKAI	-0	00		
KAHULUI, MAUI	-1	48		
KIHEI, MAUI	-1	48		
HILO, HAWAII	-0	50		
HONOLULU, HAWAII	-0	00		
MAKAIKONA, HAWAII	-0	24		
KEALAKOHA BAY, HAWAII	-0	38		

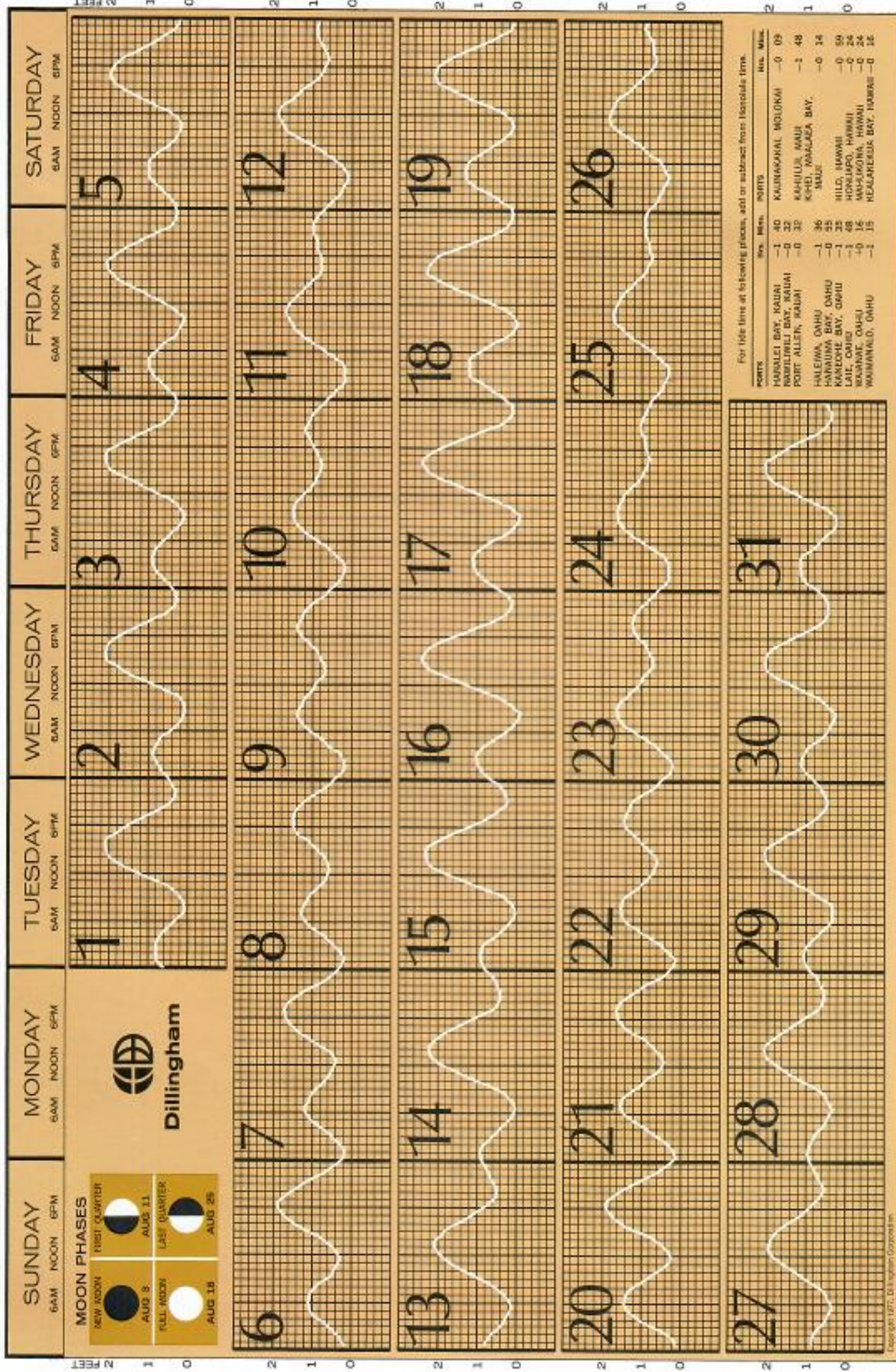


Dillingham



'O KE KAPA KAI, HE KAPA HĀLI'I A MAU.
This fresh foam is carried out of the edge of the reef.

AUGUST 1978 TIDE CHART



For tide times at following places, add or subtract from local tide time.

PORTS	MIN.	HRS.	PORTS	MIN.	HRS.
HAWAII BAY, HAWAII	-1	40	KAUNAPAHAI, MOLOKAI	-0	09
HOOLEILANI BAY, HAWAII	-0	32	KAHULUI, MAUI	-1	48
POPE ALLEN, HAWAII	-0	32	KIHEI, MAUI	-0	14
HALEIWA, OAHU	-1	36	MAUI	-0	14
HAWAIIA BAY, OAHU	-0	35			
KAPICHOE BAY, OAHU	-1	35	HILO, HAWAII	-0	59
LAKELOA, OAHU	-1	48	HONOLULU, HAWAII	-0	24
MAUNALOA, OAHU	-0	16	KAUNAHONOU, HAWAII	-0	24
WAIMANALO, OAHU	-1	15	KEAHOA BAY, HAWAII	-0	12

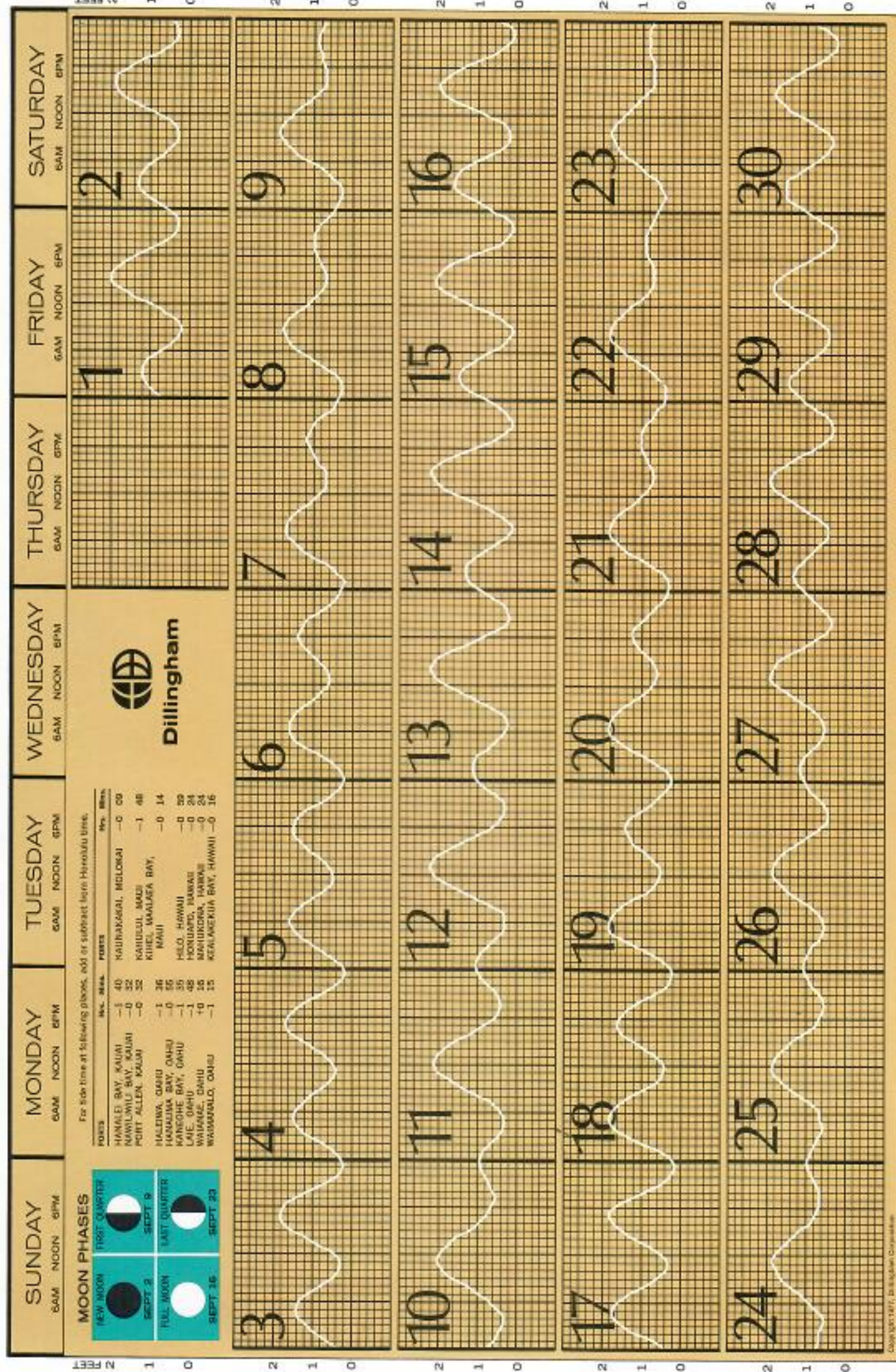


KU'T A KANI MAU KĒLĀ PAHU, 'A'OHE WĀ HO'OMAHA!

Have the consolation of seeing your rock. It never changes!

Karūiki, Maui

SEPTEMBER 1978 TIDE CHART



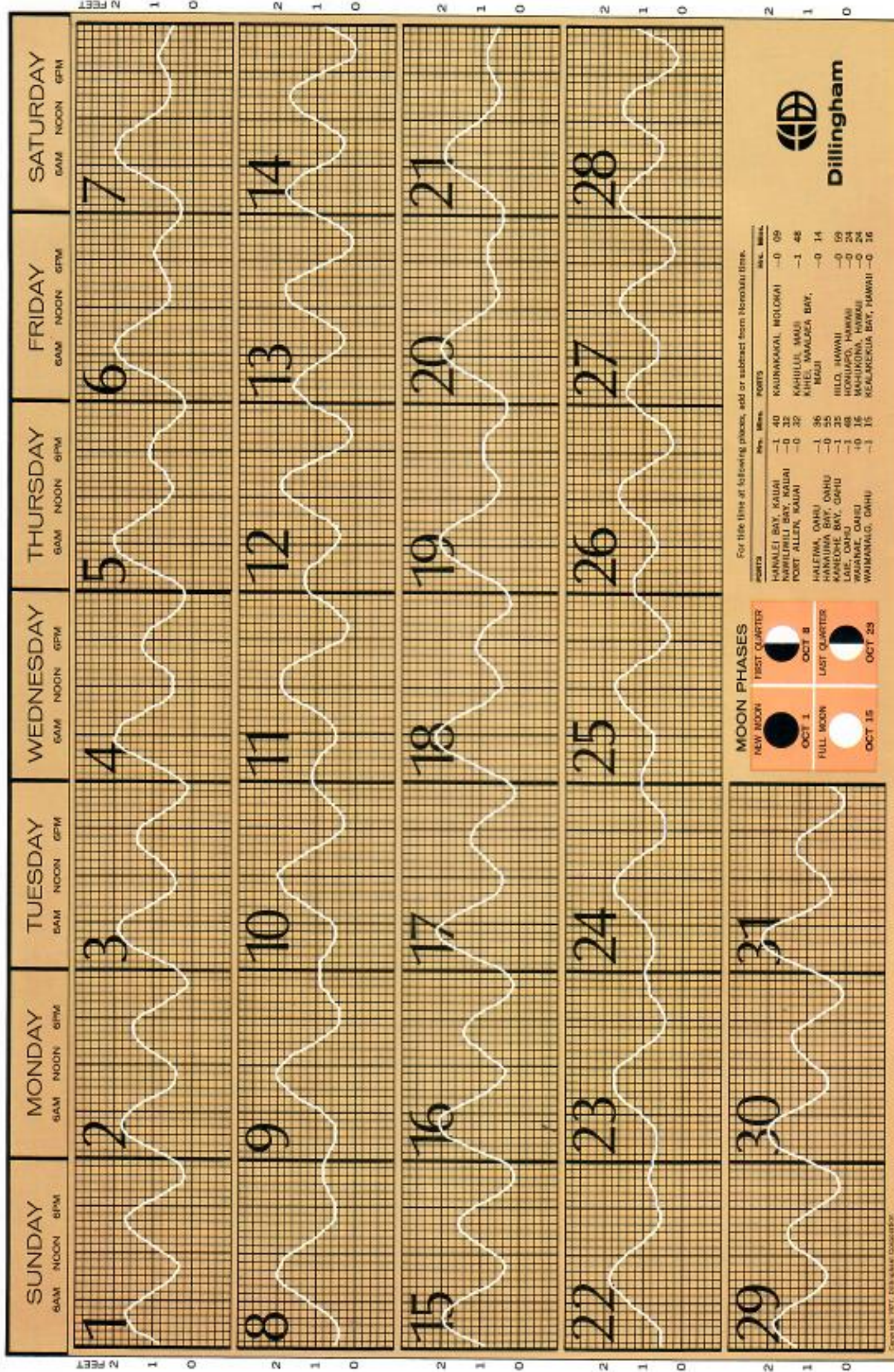


HO'OKUAKEA PAHA KE EHU I KA 'ALĀ?

Will the foam whitewash the black lava?

Kalapana Black Sand Beach, Hanalei

OCTOBER 1978 TIDE CHART

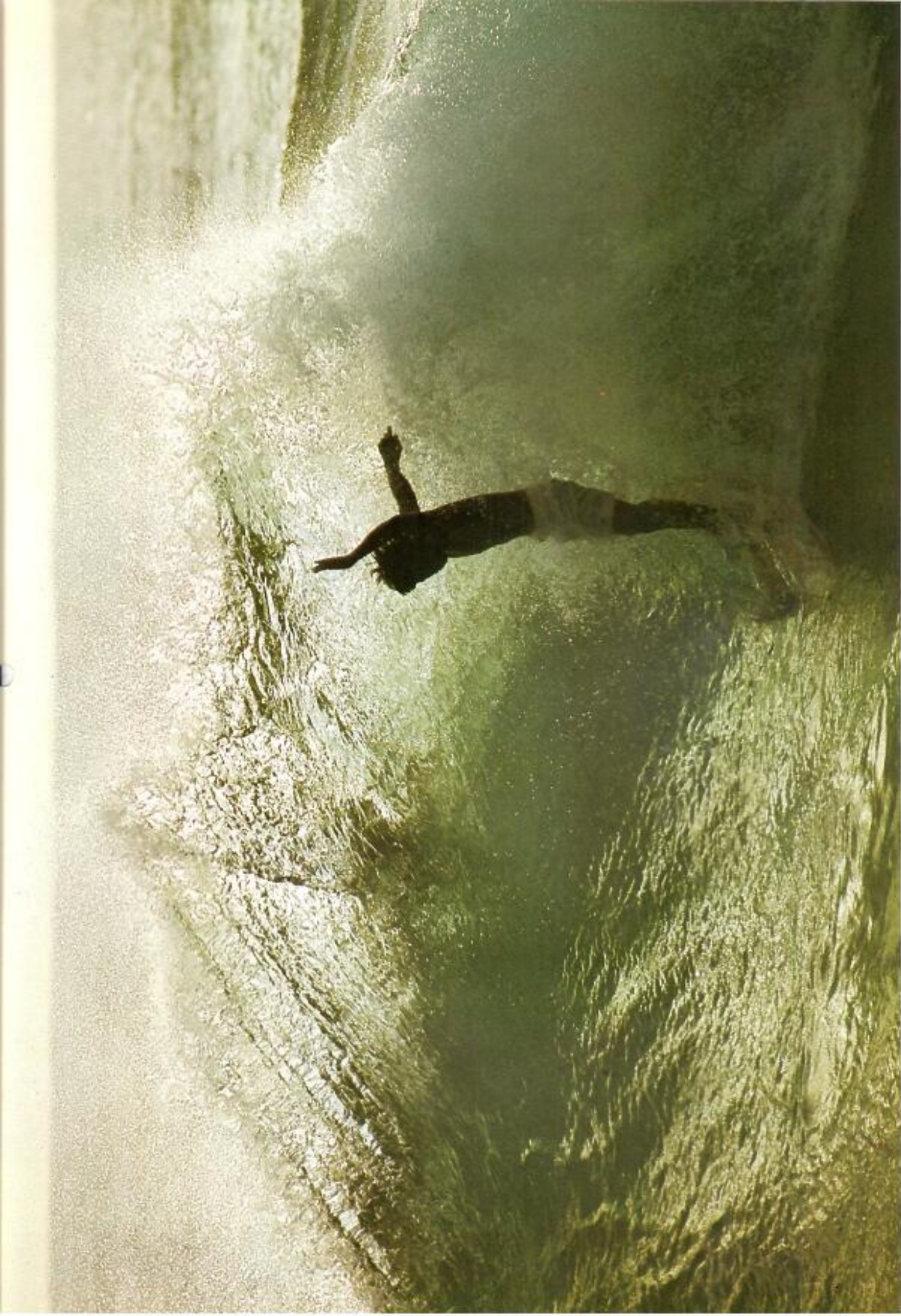


For tide time at following places, add or subtract from Honolulu time.

PORTS	Hrs.	Mins.	POINTS	MIL.	MIN.
HAWAII BAY, KAUAI	-1	40	KAUNAKAKAI, MOLOKAI	-0	09
KAHULULU BAY, MAUI	-0	32	KAHULULU, MAUI	-1	48
POINT ALLEN, MAUI	-0	32	KAPIC, MAUI	-0	14
HALEIWA, OAHU	-1	36	BILOI, HAWAII	-0	09
HANAUNA BAY, OAHU	-1	32	KOMUKONA, HAWAII	-0	24
KANOEHE BAY, OAHU	-1	48	KAHUKONA, HAWAII	-0	24
LAIE, OAHU	-1	15	KEALAKEKUA BAY, HAWAII	-0	26
WAIANAE, OAHU	-1	15			
WAIMANALO, OAHU	-1	15			



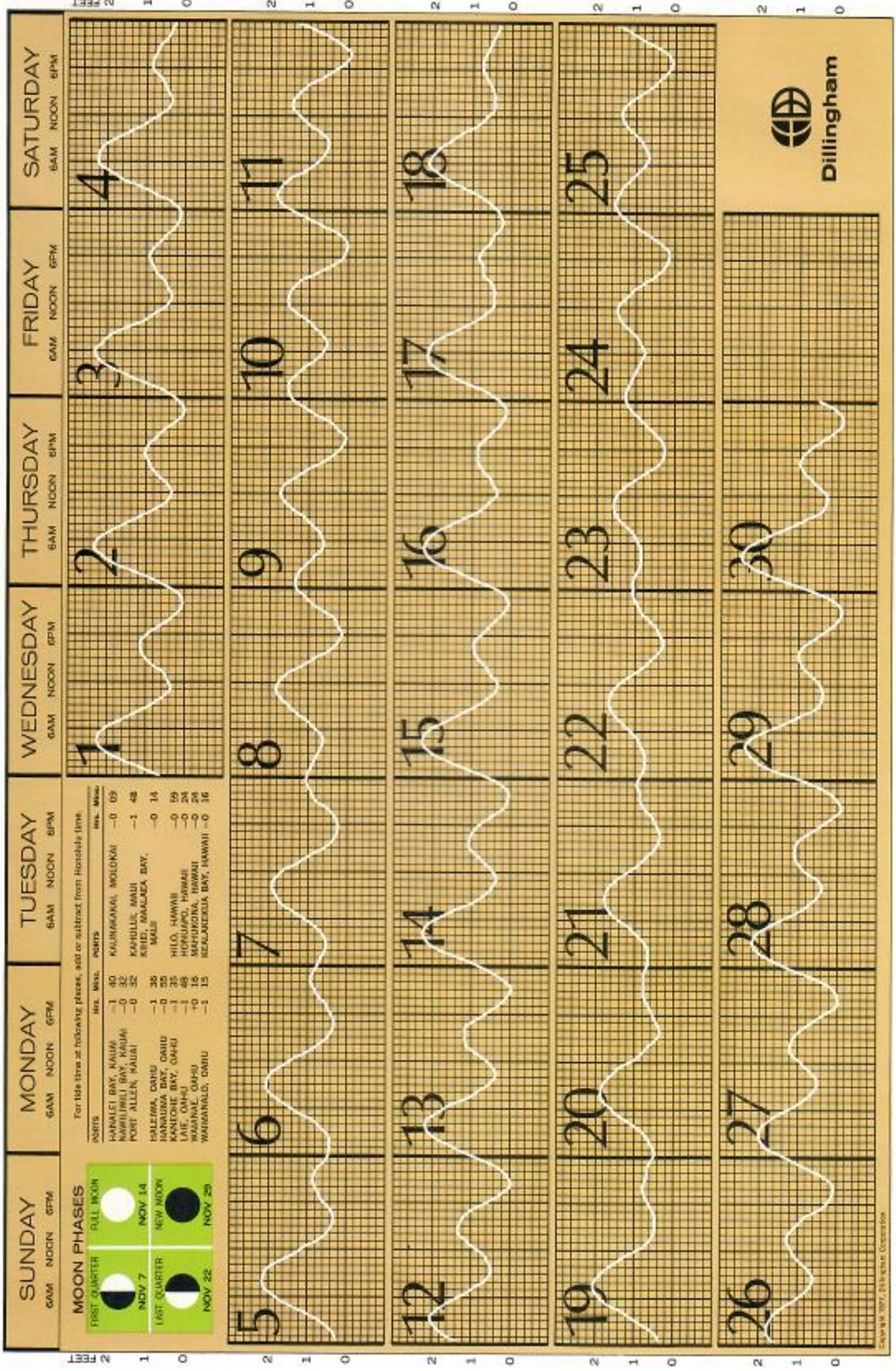
Dillingham



HĀWĀWĀ KA HE'ENALU, HA'I KA PAPA.

The unadorned surface beneath the waves.

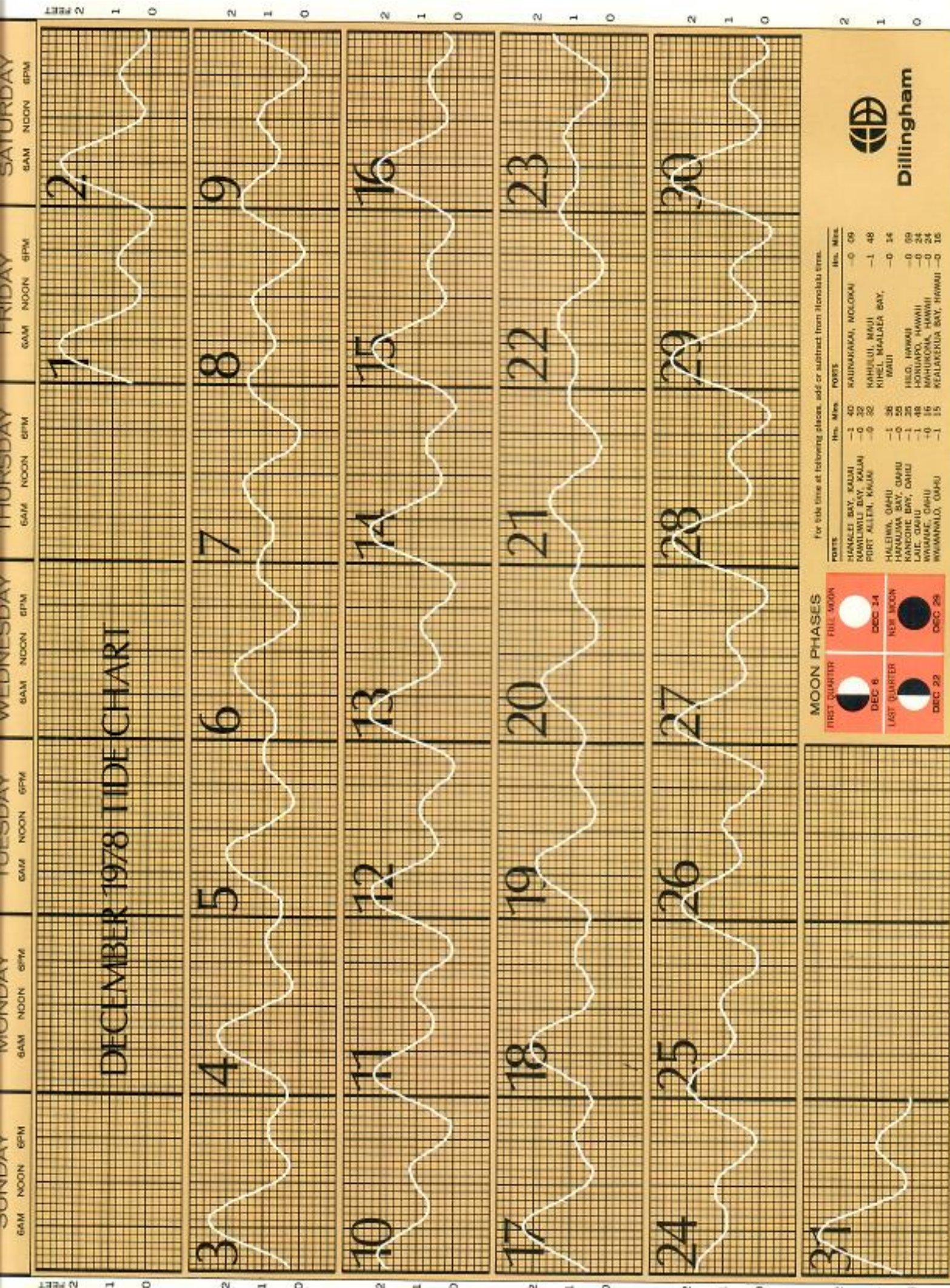
NOVEMBER 1978 TIDE CHART



Copyright 1977, Dillingham Corporation



'AIKAI PELE, PALE 'OLE KE KANAKA.
As Pele devours the sea, man watches helplessly.



For tide time at following places, add or subtract from Honolulu time.

PLACES	Hrs.	Mins.	PORTS	Hrs.	Mins.
HANALEI BAY, KAUAI	-1	40	KAUNAKAI, MOLOKAI	-0	09
MAWILIWEI BAY, KAUAI	-0	32	KAHULUI, MAUI	-1	48
PORT ALLEN, MAUI	-0	32	KIHEI, MAALAE BAY, MAUI	-0	14
HALEIWA, OAHU	-1	36	HILO, HAWAII	-0	09
HANALEI BAY, OAHU	-0	55	HONOLULU, HAWAII	-0	00
KANEOHE BAY, OAHU	-1	25	MAHUKOHA, HAWAII	-0	24
LAIE, OAHU	-1	48	KEALEKUA BAY, HAWAII	-0	16
WAIMANU, OAHU	+0	16			
WAIANAILO, OAHU	-1	15			



TIDE CALENDAR 1978



Dillingham