

SOUTHERN CALIFORNIA
2023

TIDE
CALENDAR



2023 TIDEBOOK

LOS ANGELES TIDE CALENDARS



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THE TIDEBOOK COMPANY

PRINTS *of* TIDES

P.O. Box 2813 • Tybee Island, GA 31328 • 912-472-4373

www.tidelog.com

info@tidelog.com

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IMPORTANT NOTICES: The mariner must be cautioned that during times when weather conditions differ from what is considered average for the area, corresponding differences between predicted heights of tide and those actually observed will be noted. Generally, prolonged onshore winds or a low barometric pressure can produce higher tides than predicted, while the opposite can result in lower tides than those predicted. During times of storm surges or when extreme weather conditions are imminent, it would be prudent for the mariner to keep closely advised by local weather forecasts as they relate to the effects upon tide levels.

HEIGHT DATUM: The datum from which the predicted heights are recorded is the same as that used for the charts of your locality. For the Pacific Coast of the U.S. (including Alaska and Hawaii) that datum is Mean Lower Low Water (MLLW).

PACIFIC DAYLIGHT SAVING TIME: All tables are corrected for daylight saving time.

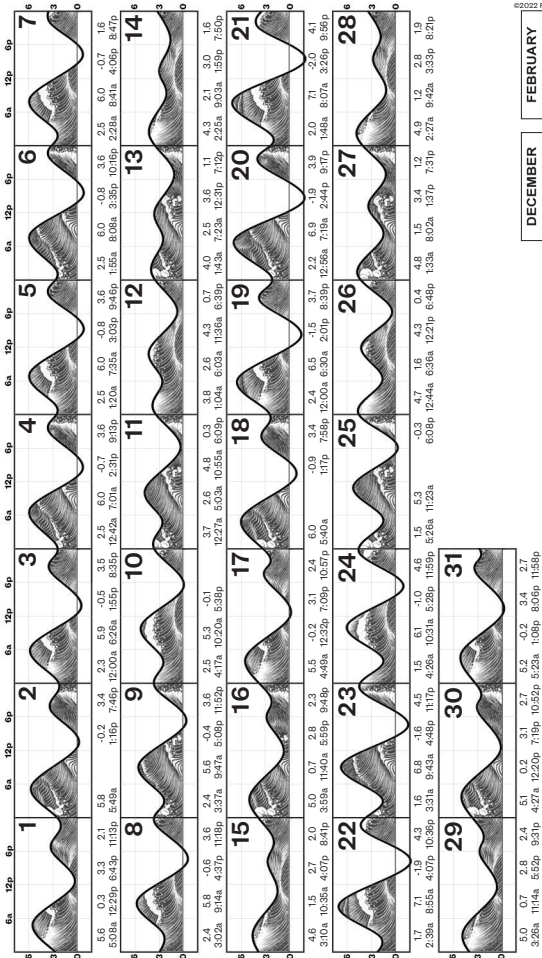
**NO WARRANTY, EXPRESS OR IMPLIED, IS
MADE FOR THE ACCURACY OF THE DATA
CONTAINED IN THIS BOOKLET**

The tide information has been obtained from the National Oceanic and Atmospheric Administration (NOAA). Persons using this book should also consult original sources, including published NOAA charts and tables.

NOTE: The interval on the following pages is High/Low, the solid line depicts a curve fit between the high and low values and approximates the segments between.

JANUARY 2023

SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY



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FEBRUARY						
S	M	T	W	T	F	S
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- Full Moon: Jan 6
- Last Quarter: Jan 15
- New Moon: Jan 21
- First Quarter: Jan 28

FEBRUARY 2023

SUNDAY

MONDAY

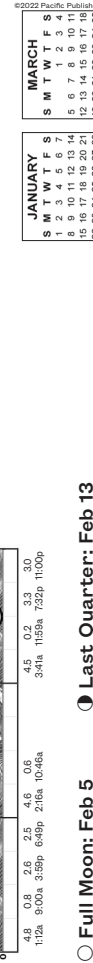
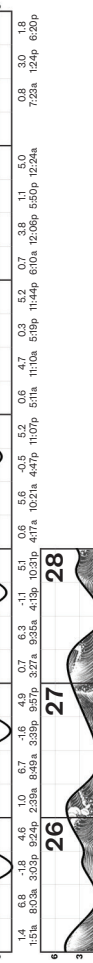
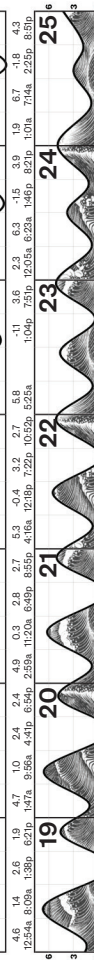
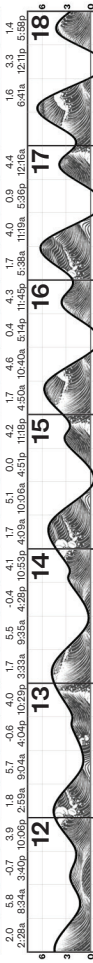
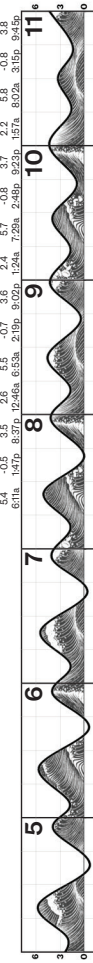
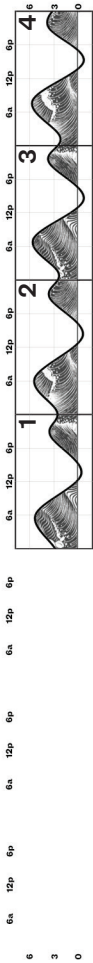
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THURSDAY

FRIDAY

SATURDAY



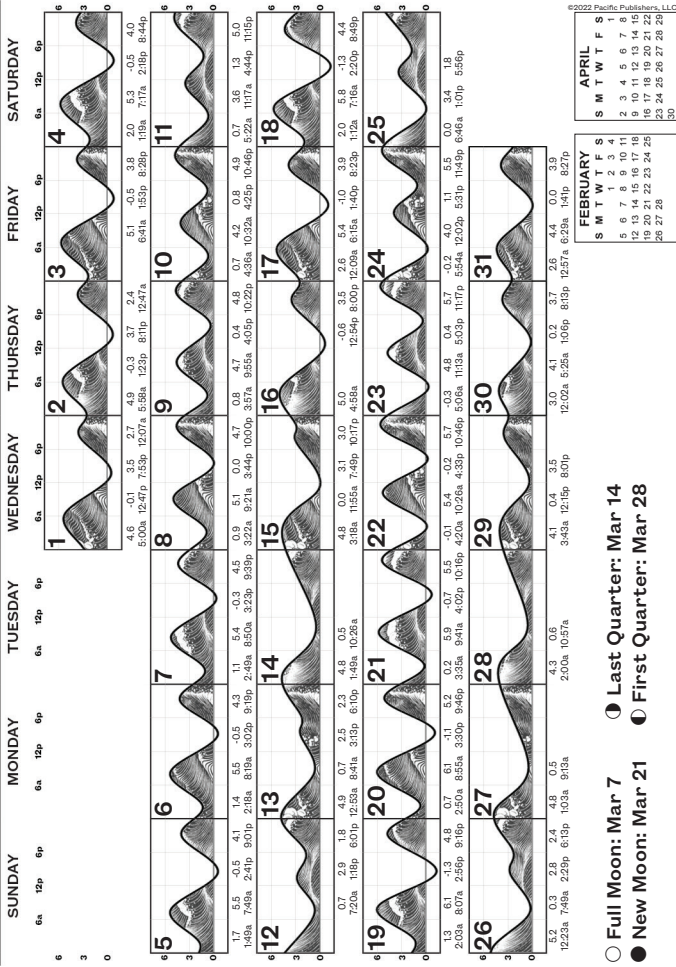
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- Full Moon: Feb 5
- Last Quarter: Feb 13
- New Moon: Feb 19
- First Quarter: Feb 27

MARCH 2023



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APRIL	S	M	T	W	T	F	S
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- Full Moon: Mar 7
- Last Quarter: Mar 14
- New Moon: Mar 21
- First Quarter: Mar 28

APRIL 2023

SUNDAY

MONDAY

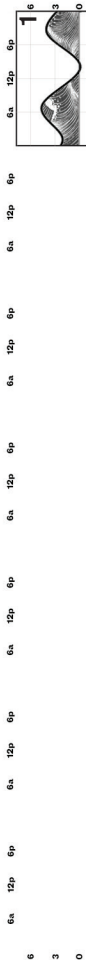
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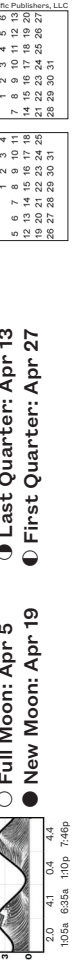
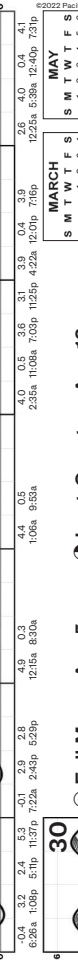
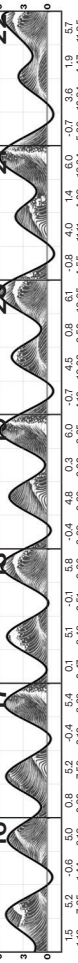
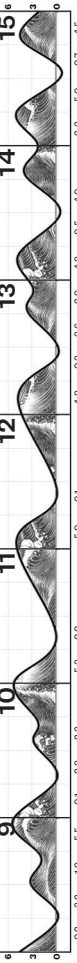
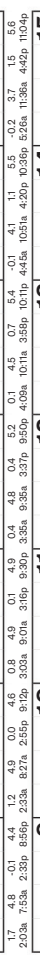
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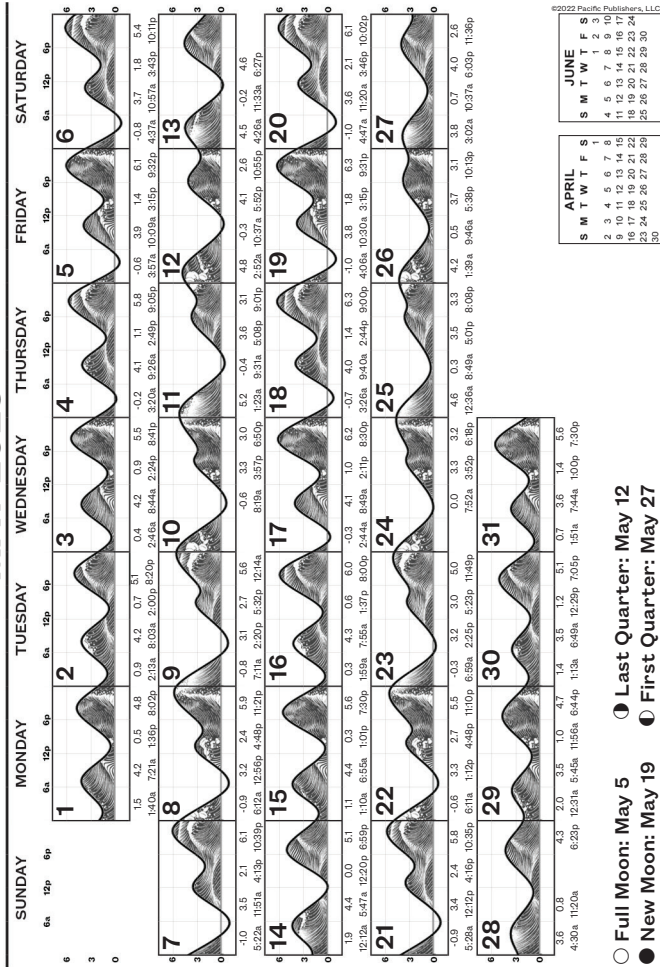
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Last Quarter: Apr 13
 Full Moon: Apr 5
 New Moon: Apr 19
 First Quarter: Apr 27

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MAY 2023



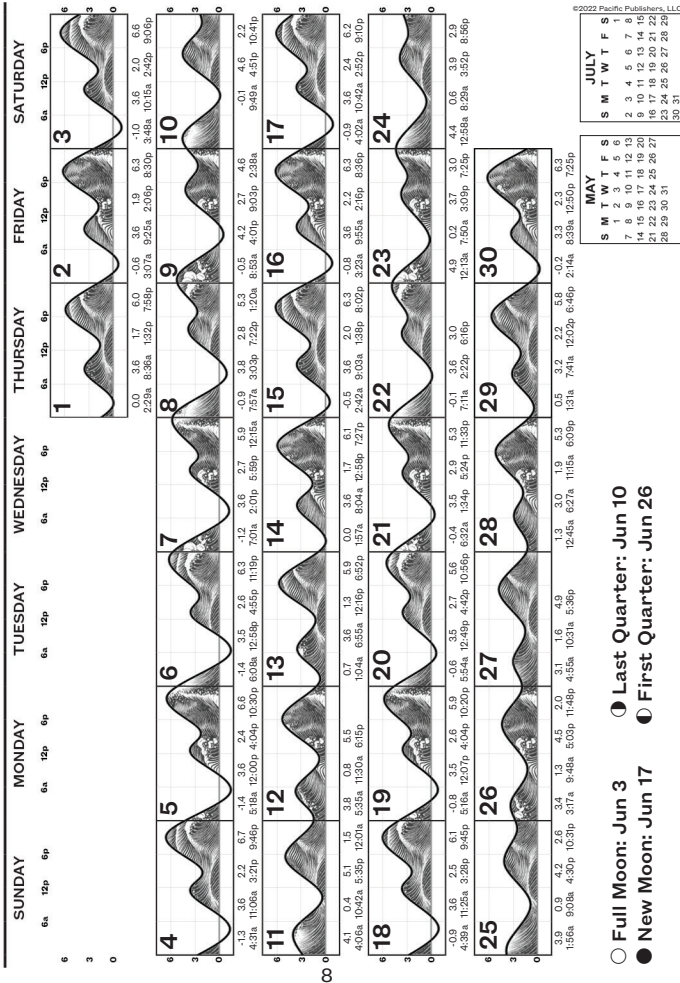
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- Full Moon: May 5
- Last Quarter: May 12
- New Moon: May 19
- First Quarter: May 27

JUNE 2023



Tips for Sewage Management

It is against federal and state law to discharge untreated sewage within the three-mile territorial limit (including lakes, rivers, reservoirs, or coastal waters within three miles of shore) or treated sewage into any designated **No Discharge Zone**. Fines up to \$2,000 can be imposed for illegal discharges.

- 👉 **Never discharge** treated or untreated wastes into small bays, harbors, marinas, areas with low tidal flushing, or near recreational swimming, fishing, and shellfish beds.
- 👉 **Get a U.S. Coast Guard approved Marine Sanitation Device** for your boat or consider using a port-a-potty.
- 👉 Even if you have a Type I, II, or III Marine Sanitation Device, consider **using landside restrooms** before departing. Type I and II discharges, although treated, add chemicals and organic matter to the marine environment.
- 👉 Prevent accidental discharges by **keeping your “Y” valve properly secured** in the closed position when navigating inland waters or boating less than three miles offshore.
- 👉 **Read labels and use holding tank disinfectants** and deodorizers that do not contain ammonia, chlorine, formaldehyde, or other components that can be harmful to aquatic organisms.
- 👉 Instead of chemical additives, **use enzyme-based treatments** to break down solids and reduce odor.

THE NATIONAL PUMPOUT SYMBOL

Look for this symbol and remember:
Pump it, don't dump it.



Mobile Boat-to-Boat Services

BILGE PUMPOUT/CLEANING SERVICES

Suck it up Sally Mobile Pump Out Service 760.583.4974

Serves: Oceanside Harbor

Other Services Provided: Pump out service and bilge cleanup.

Waterworks Office: 805.884.0215 Cell: 805.453.3091

Serves: Santa Barbara and Ventura Counties

www.sbwaterworks.com | Email: service@surfmaninc.com

SEWAGE MOBILE PUMPOUT SERVICES

All Bay Marine Service 619.298.4568

Serves: San Diego Bay

www.allbaymarineservices.com | Email: kris@aquariusyacht.com

Dolphin Marine and Pump Out 714.296.8531

Serves: Long Beach Harbor, Huntington Harbour, Newport Harbor

www.gogreenpumpout.org | Email: fishnets8989@hotmail.com

Other Services Provided: Hull cleaning services

Head Pumpers 310.292.1226

Serves: Avalon Harbor, Catalina Island

www.headpumpers.com | Email: davefcarleton@gmail.com

VHF Radio: Channel 68

Honey Bucket 310.221.2190

Serves: King Harbor

Email: honeybucketredondo@yahoo.com

Mobile Pro Marine Services 619.342.4477

Serves: San Diego County

Email: info@mobilepromarine.com

Pepe La 'Poo's Pumpout 760.815.7727

Serves: San Diego County

www.pepelapoo.com | Email: service@pepelapoo.com

Popeye's Pumpout Co. **310.467.5008**

Serves: Marina del Rey Harbor

www.popeyespumpout.com | Email: service@popeyespumpout.com

Other Services Provided: Emergency bilge pumpout upon request, bilge water cleaning

Royal Flush Pumping Service **888.656.2551**

Serves: Los Angeles and Orange Counties

www.pump-out.net | Email: royalflush@onebox.com

Suck it up Sally Mobile Pump Out Service **760.583.4974**

Serves: Oceanside Harbor

The Pumpout **855.PUMPOUT (786.7688)**




Serves: Long Beach Harbor, Huntington Harbour, Newport Harbor

www.thepumpout.com | Email: thepumpoutboat@gmail.com

Scan the QR code with your smartphone for a complete list of statewide mobile boat-to-boat services:



Legal Discharge Limits for Boating Waste

	INLAND	OCEAN WATERS	
	 <p>Lakes, reservoirs, fresh water impoundments</p>	 <p><u>Less than 3 miles</u> offshore</p>	 <p><u>3-12 miles</u> offshore</p>
SEWAGE	No Discharge permitted	Permitted through Type I or II MSD	Discharge permitted
OIL	Discharge permitted if less than 15 ppm, no sheen		
FOOD WASTE	No Discharge permitted		Discharge permitted if ground up to less than one cubic inch
TRASH (NON-PLASTIC)	No Discharge permitted		
PLASTIC & FLOATABLES	It is illegal to discharge any plastic or floatable materials into inland, coastal, or ocean waters.		
HAZARDOUS WASTE	It is illegal to discharge any hazardous substance into inland, coastal, or ocean waters.		

<p><u>12-25 miles offshore</u></p>	<p><u>More than 25 miles offshore</u></p>
<p>Permitted if less than 15 ppm with an OWS, monitor, & alarm</p>	
<p>Discharge permitted</p>	
<p>Discharge permitted if ground up to less than one cubic inch</p>	<p>Discharge permitted</p>

KEY TERMS AND NOTES:

- MSD: Marine Sanitation Device,
- OWS: Oil/Water Separator,
- ppm: parts per million

MSDs

Type I

Chemically treats sewage so that the bacteria count is reduced to less than 1,000 per 100 milliliters

Type II

Similar to Type I MSD, but the bacteria count must be below 200 per 100 milliliters

Type III

Holding tank

Vessels with installed marine toilets must have an operable U.S. Coast Guard approved MSD. Discharge of treated or untreated sewage is illegal anywhere in a federally designated No Discharge Zone or restricted waters of California.

To report illegal discharges anywhere, call the National Response Center toll free at 800.424.8802.

Marine Protected Area Information

WHAT IS A MARINE PROTECTED AREA (MPA)?

A marine area designated via public processes to protect and conserve marine life, marine habitats, and cultural resources by prohibiting or limiting the take of marine resources. MPAs are recognized tools for protecting, enhancing, and restoring marine life and allow for interactions between both fished and unfished species to occur in a natural setting.

TYPES OF PROTECTED AREAS (INCLUDING MPAS)

👉 **State Marine Reserve (SMR):** Most common and restrictive type of MPA. Fishing is not allowed.

👉 **State Marine Conservation Area (SMCA):** Less restrictive than SMRs and may allow some recreational or commercial fishing with certain gear. See www.wildlife.ca.gov/MPAs.

👉 **No-Take SMCA:** Take of any living, geological, or culture resource in the area is prohibited.

👉 **State Marine Park (SMP):** Allows some recreational take but does not allow commercial take.

👉 **State Marine Recreational Management Area (SMRMA):** Some take, and legal waterfowl hunting may be allowed, but other activities and take may be prohibited.

👉 **Special Closure:** Prohibits or restricts access in waters near seabird rookeries or resting and breeding sites for marine mammals. May prohibit boating and anchoring to protect sensitive species.

👉 **Channel Islands National Marine Sanctuary:** Prohibits commercial offshore oil & gas development, deep sea mining, pollution discharge, introduction of non-native species, and other related activities.

👉 **Federal MPA:** Extensions of State MPAs into federal waters.

LEARN MORE

Scan the QR code with your smartphone for more information on the specific regulations and GPS coordinates for each MPA:



HOW DO MPAS AFFECT BOATERS?

- ☞ Boating and anchoring in an MPA is allowed unless specifically prohibited by regulations for a particular MPA.
- ☞ Transiting through MPAs is allowed, even with fish on board; just make sure your fishing gear is stowed.
- ☞ If you do fish, learn where MPAs are. Many SMCAs allow recreational fishing for pelagic fish with certain gear. And, while fishing is not allowed within SMRs, you may benefit from them when you fish a nearby reef.
- ☞ There are other fishing rules and regulations, so be informed and plan your fishing trip before you leave home.

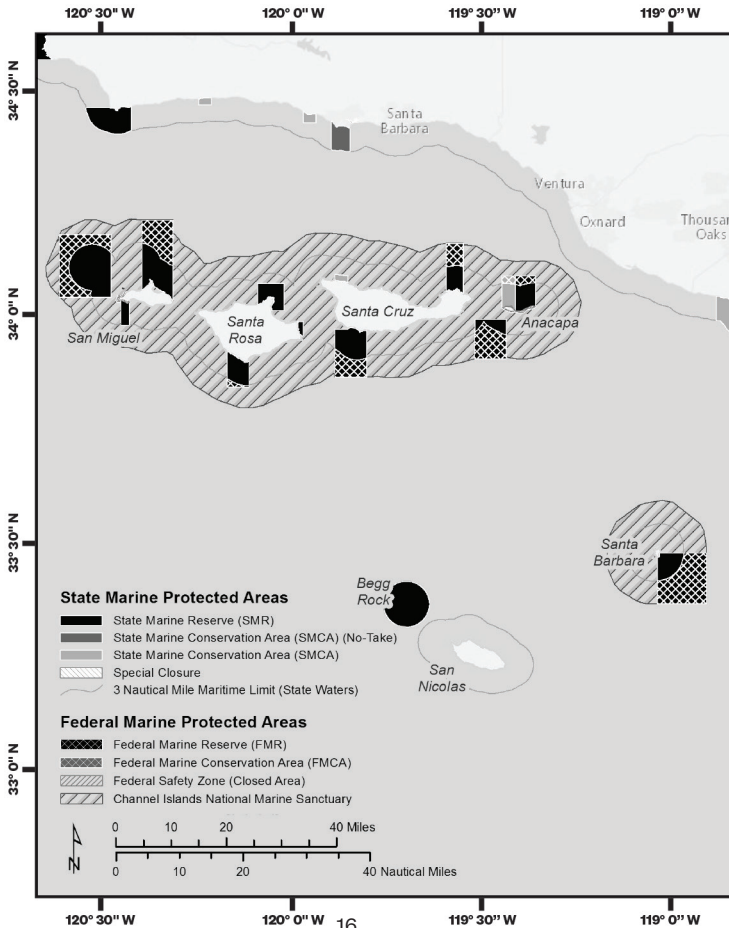
WILDLIFE HOTLINES

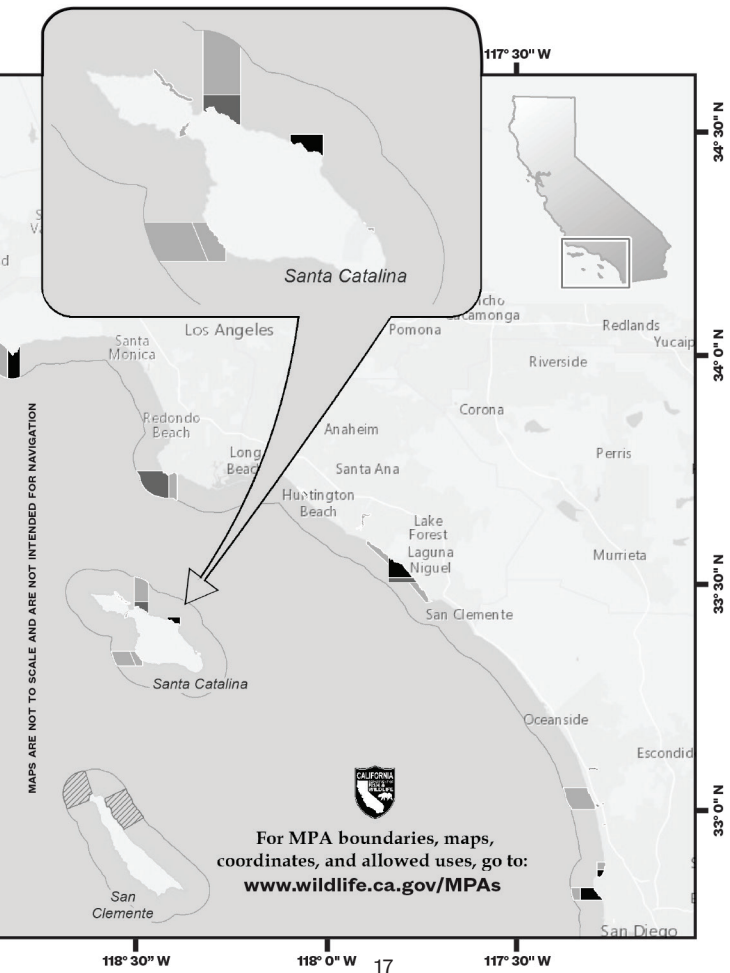
- ☞ **CA Wildlife Center**
310.458.WILD
(310.458.9453)
- ☞ **Marine Mammal Center**
415.289.SEAL
(415.289.7325)
- ☞ **Report Poachers and Polluters**
Report disturbances and poaching to CalTip at 888.334.2258, or text "CALTIP" followed by a space and the message, to 847411 (tip411)

TIPS FOR BOATERS TO PREVENT MARINE WILDLIFE DISTURBANCE

- ☞ Stay 1,000 feet (3 football fields) from cliffs, offshore rocks, and islands.
- ☞ All marine mammals are protected under the Marine Mammal Protection Act.
- ☞ Stay at least 100 yards away from whales and at least 50 yards away from dolphins, seals, and sea lions.
- ☞ If you see bird heads bobbing, calling, fluttering, or flying away, you are too close.
- ☞ Paddle, sail, or motor around rather than through groups of birds on the water.
- ☞ Properly dispose of fishing line — look for fishing line recycling stations (see harbor maps), cover bait, use barbless hooks, and artificial lures.
- ☞ Do not feed wildlife or attract birds by throwing bait or fish scraps overboard.
- ☞ State and federal laws protect seabirds and other marine life from harassment.

SOUTHERN CALIFORNIA STATE AND FEDERAL MARINE PROTECTED AREAS





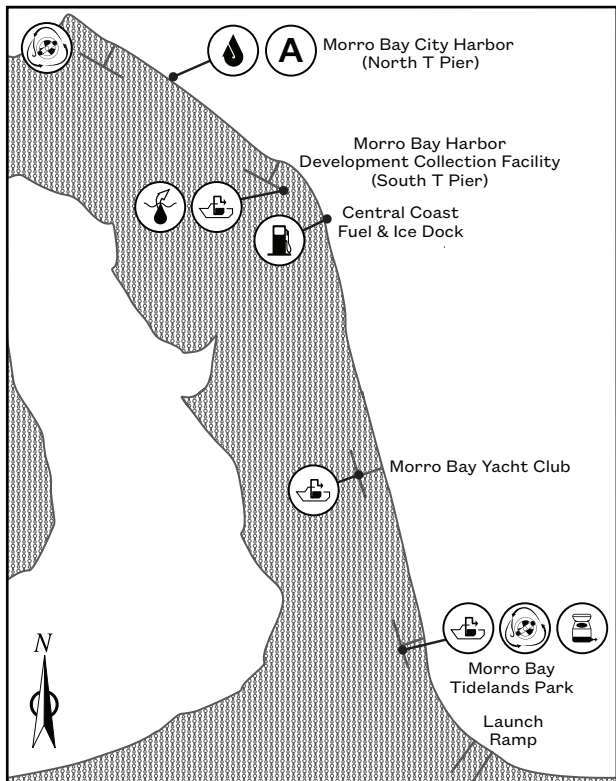
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For MPA boundaries, maps,
coordinates, and allowed uses, go to:
www.wildlife.ca.gov/MPAs



118° 30' W 118° 0' W 117° 30' W

MORRO BAY



MAPS ARE NOT TO SCALE AND NOT INTENDED FOR NAVIGATION
PLEASE CONTACT FACILITIES TO VERIFY SERVICES AND HOURS



**DUMP
STATION**



**OIL
BILGE
PUMPOUT**



**OIL
ABSORBENT
DISTRIBUTION
AND/OR
COLLECTION**



FUEL



**OIL
RECYCLING**

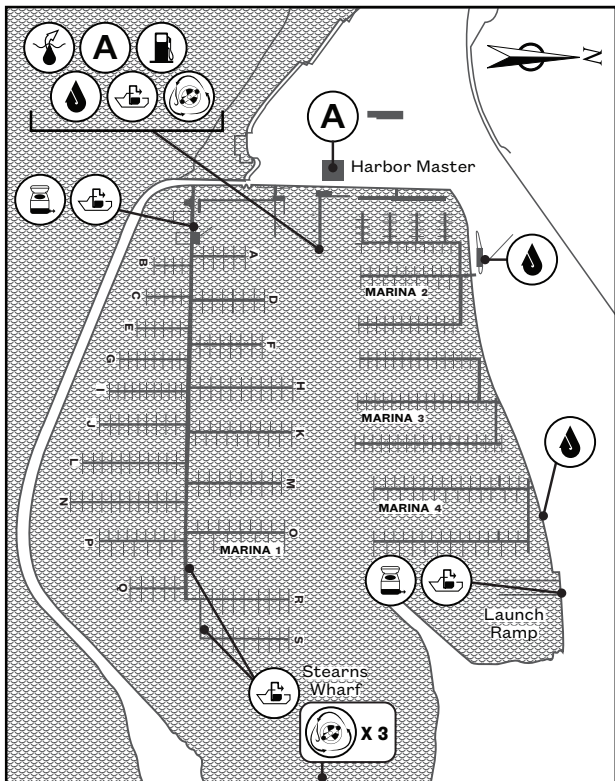


**SEWAGE
PUMPOUT**



**FISHING
LINE
RECYCLING**

SANTA BARBARA



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PLEASE CONTACT FACILITIES TO VERIFY SERVICES AND HOURS



**DUMP
STATION**



**OIL
BILGE
PUMPOUT**



**OIL
ABSORBENT
DISTRIBUTION
AND/OR
COLLECTION**



FUEL



**OIL
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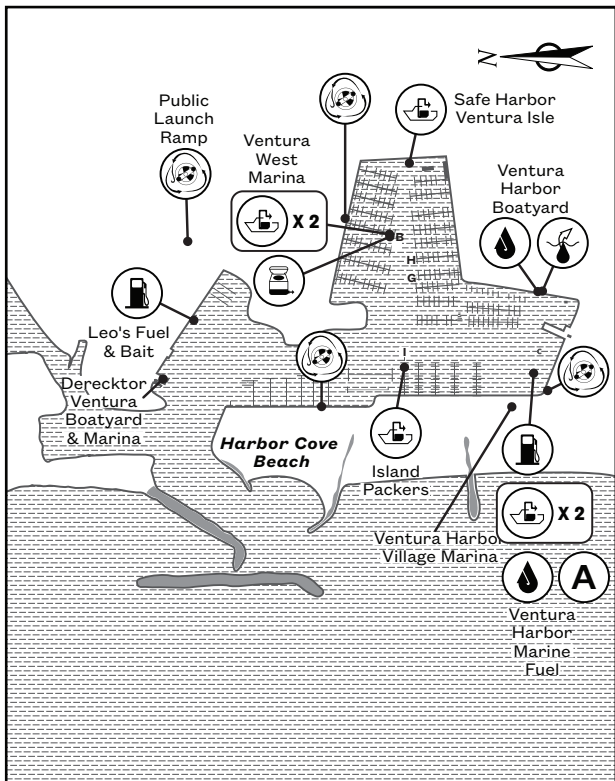


**SEWAGE
PUMPOUT**



**FISHING
LINE
RECYCLING**

VENTURA



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**DUMP
STATION**



**OIL
BILGE
PUMPOUT**



**OIL
ABSORBENT
DISTRIBUTION
AND/OR
COLLECTION**



FUEL



**OIL
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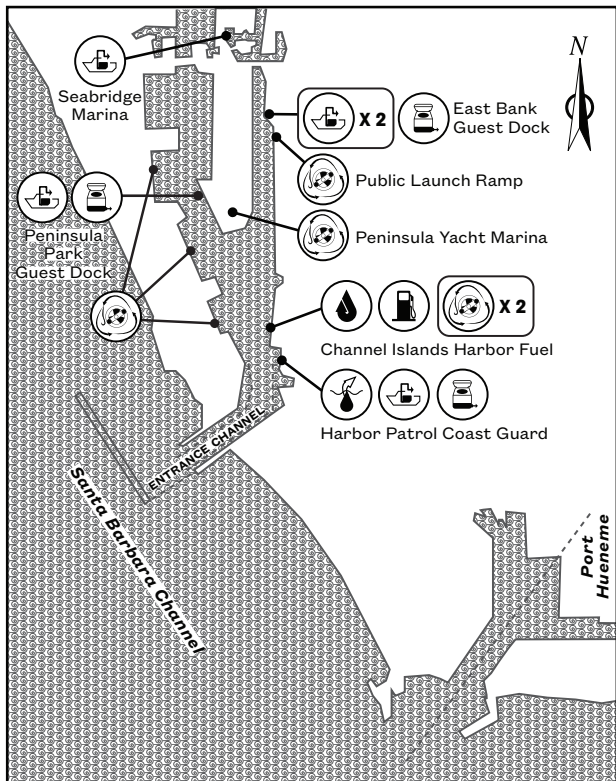


**SEWAGE
PUMPOUT**



**FISHING
LINE
RECYCLING**

CHANNEL ISLANDS



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**DUMP
STATION**



**OIL
BILGE
PUMPOUT**



**OIL
ABSORBENT
DISTRIBUTION
AND/OR
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FUEL



**OIL
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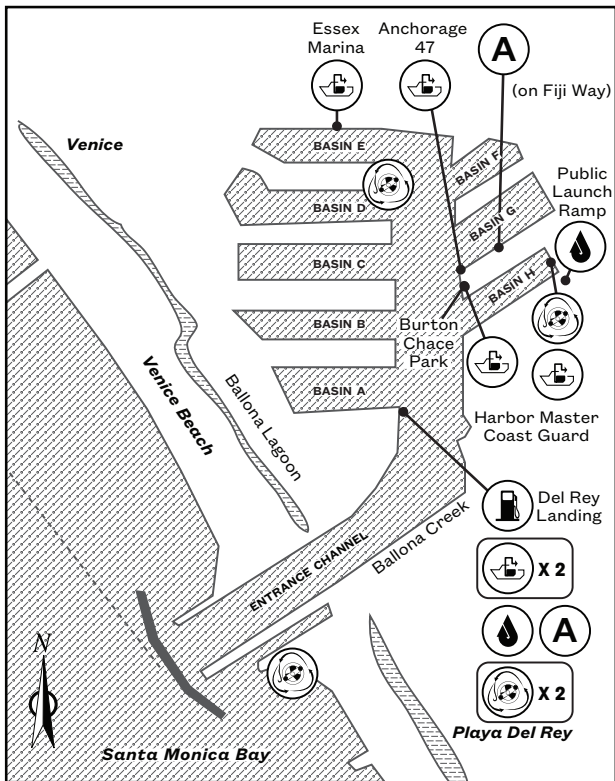


**SEWAGE
PUMPOUT**



**FISHING
LINE
RECYCLING**

MARINA DEL REY



MAPS ARE NOT TO SCALE AND NOT INTENDED FOR NAVIGATION
PLEASE CONTACT FACILITIES TO VERIFY SERVICES AND HOURS

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DISTRIBUTION
AND/OR
COLLECTION



FUEL



OIL
RECYCLING

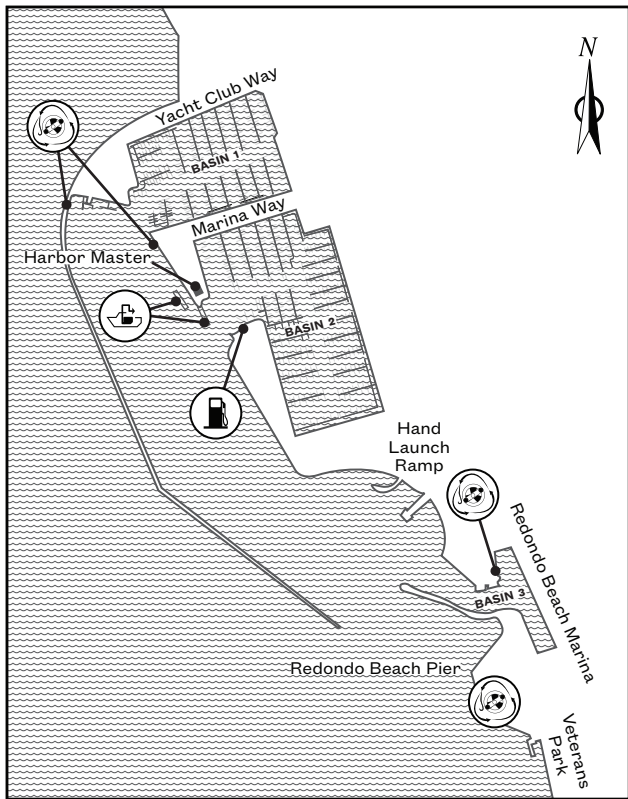


SEWAGE
PUMPOUT



FISHING
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RECYCLING

KING HARBOR



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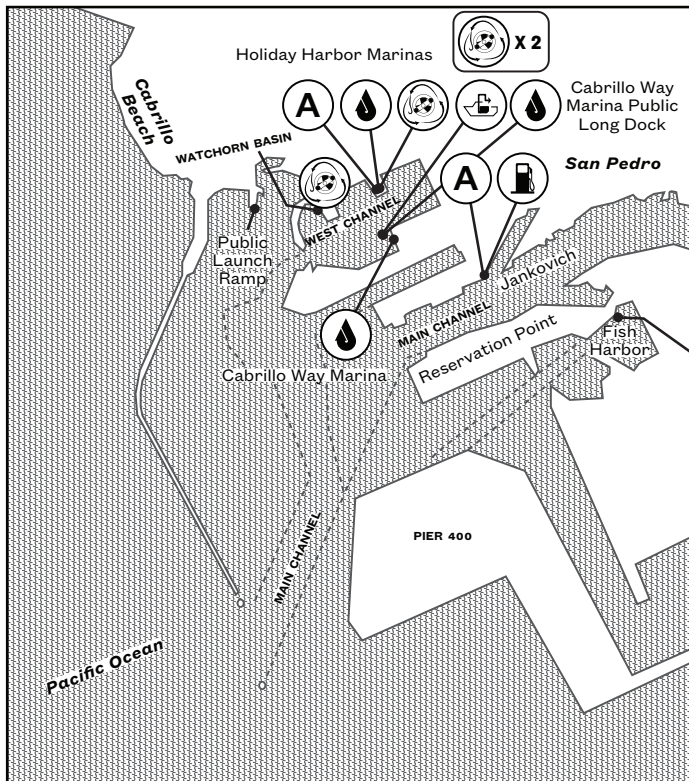


**SEWAGE
PUMPOUT**



**FISHING
LINE
RECYCLING**

LOS ANGELES HARBOR



Los Angeles

WEST BASIN

Wilmington

East San Pedro



Maxum
Petroleum

WEST BASIN

California
Yacht Marina
Wilmington



EAST BASIN

Los Angeles

Terminal Island

Lighthouse
Yacht
Landing



Pacific
Yacht
Landing



Ceritos
Island



**OIL
ABSORBENT
DISTRIBUTION
AND/OR
COLLECTION**



FUEL



**OIL
RECYCLING**



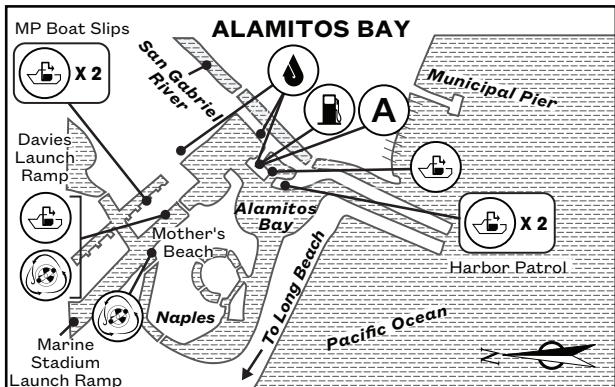
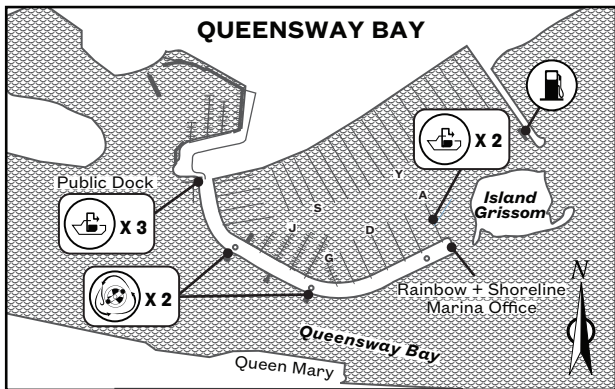
**SEWAGE
PUMPOUT**



**FISHING
LINE
RECYCLING**

MAPS ARE NOT TO SCALE AND NOT INTENDED FOR NAVIGATION
PLEASE CONTACT FACILITIES TO VERIFY SERVICES AND HOURS

LONG BEACH



MAPS ARE NOT TO SCALE AND NOT INTENDED FOR NAVIGATION
PLEASE CONTACT FACILITIES TO VERIFY SERVICES AND HOURS



**OIL
ABSORBENT
DISTRIBUTION
AND/OR
COLLECTION**



FUEL



**OIL
RECYCLING**

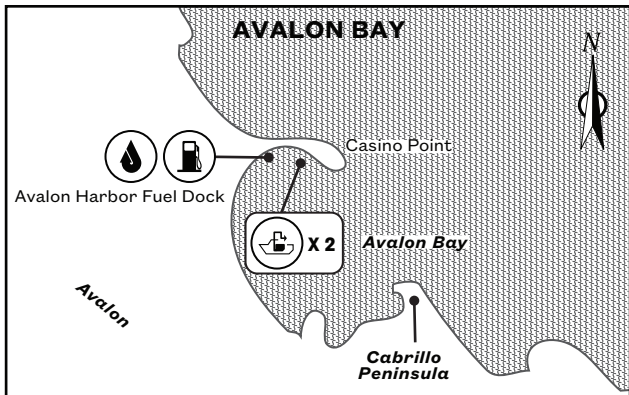
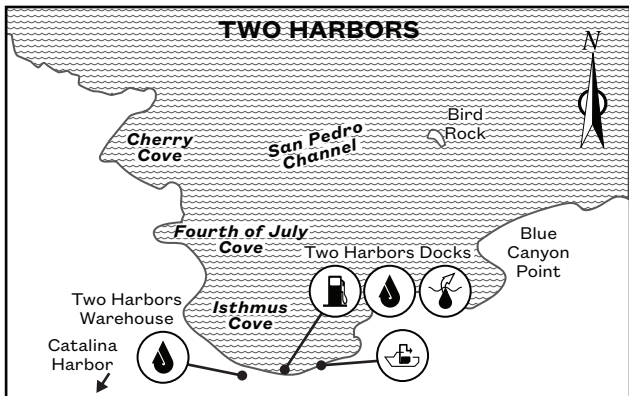


**SEWAGE
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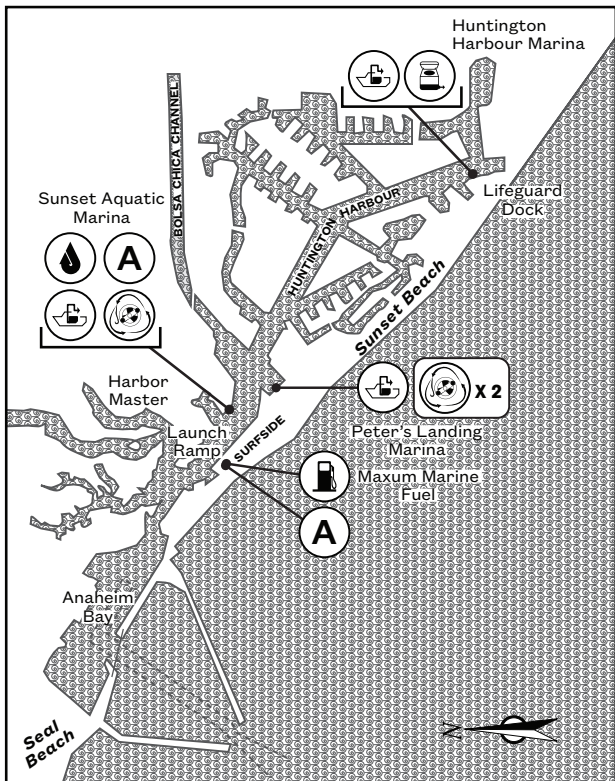
**FISHING
LINE
RECYCLING**

SANTA CATALINA ISLAND



MAPS ARE NOT TO SCALE AND NOT INTENDED FOR NAVIGATION
PLEASE CONTACT FACILITIES TO VERIFY SERVICES AND HOURS

HUNTINGTON HARBOUR



MAPS ARE NOT TO SCALE AND NOT INTENDED FOR NAVIGATION
PLEASE CONTACT FACILITIES TO VERIFY SERVICES AND HOURS



**DUMP
STATION**



**OIL
ABSORBENT
DISTRIBUTION
AND/OR
COLLECTION**



FUEL



**OIL
RECYCLING**

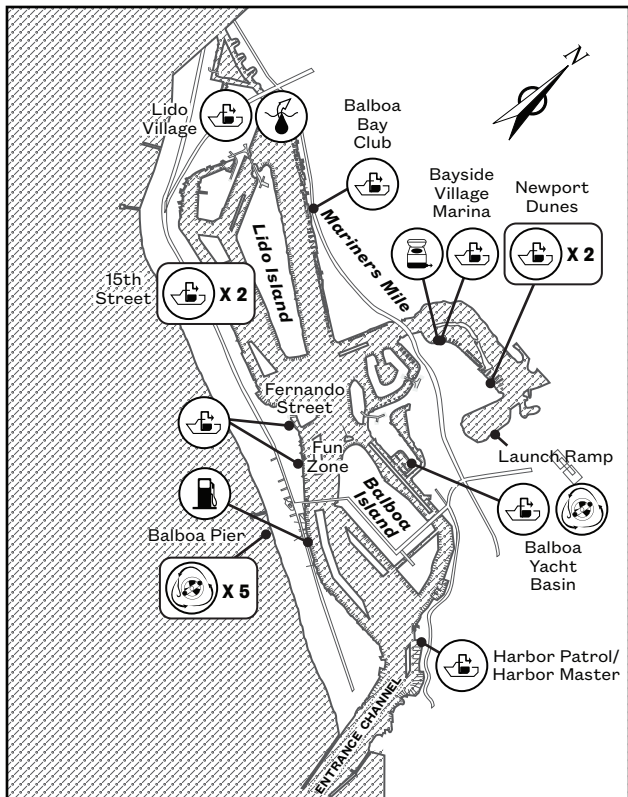


**SEWAGE
PUMPOUT**



**FISHING
LINE
RECYCLING**

NEWPORT HARBOR



MAPS ARE NOT TO SCALE AND NOT INTENDED FOR NAVIGATION
PLEASE CONTACT FACILITIES TO VERIFY SERVICES AND HOURS



**DUMP
STATION**



**OIL
BILGE
PUMPOUT**



FUEL

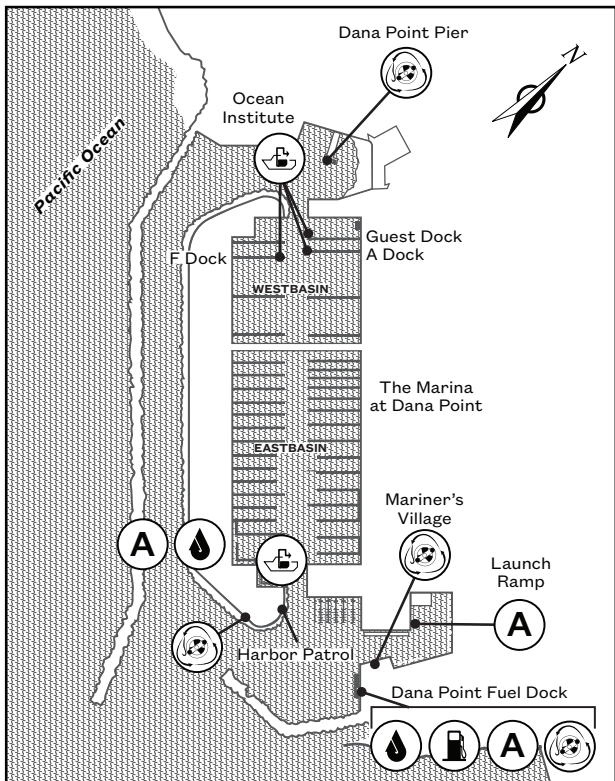


**SEWAGE
PUMPOUT**



**FISHING
LINE
RECYCLING**

DANA POINT



MAPS ARE NOT TO SCALE AND NOT INTENDED FOR NAVIGATION
PLEASE CONTACT FACILITIES TO VERIFY SERVICES AND HOURS

A
OIL
ABSORBENT
DISTRIBUTION
AND/OR
COLLECTION



FUEL



OIL
RECYCLING

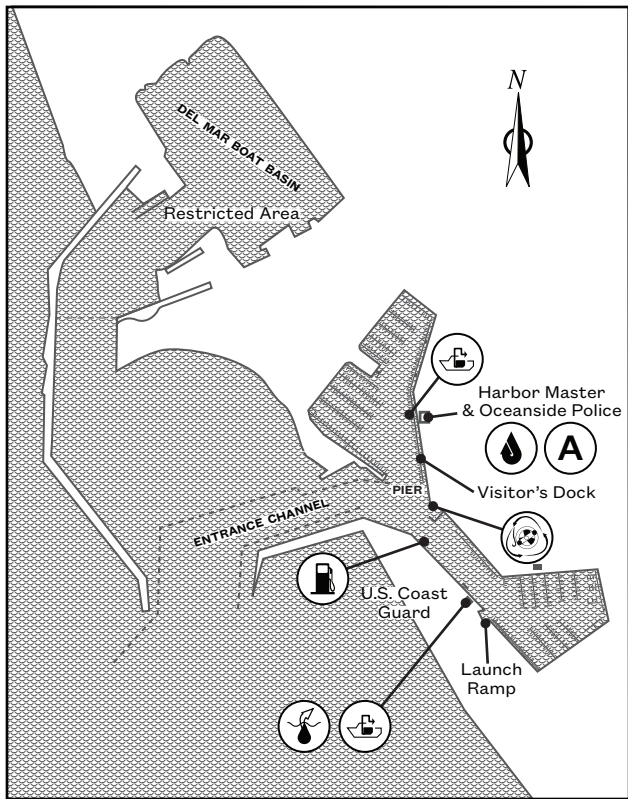


SEWAGE
PUMPOUT



FISHING
LINE
RECYCLING

OCEANSIDE



MAPS ARE NOT TO SCALE AND NOT INTENDED FOR NAVIGATION
PLEASE CONTACT FACILITIES TO VERIFY SERVICES AND HOURS



**OIL
BILGE
PUMPOUT**



**OIL
ABSORBENT
DISTRIBUTION
AND/OR
COLLECTION**



FUEL



**OIL
RECYCLING**

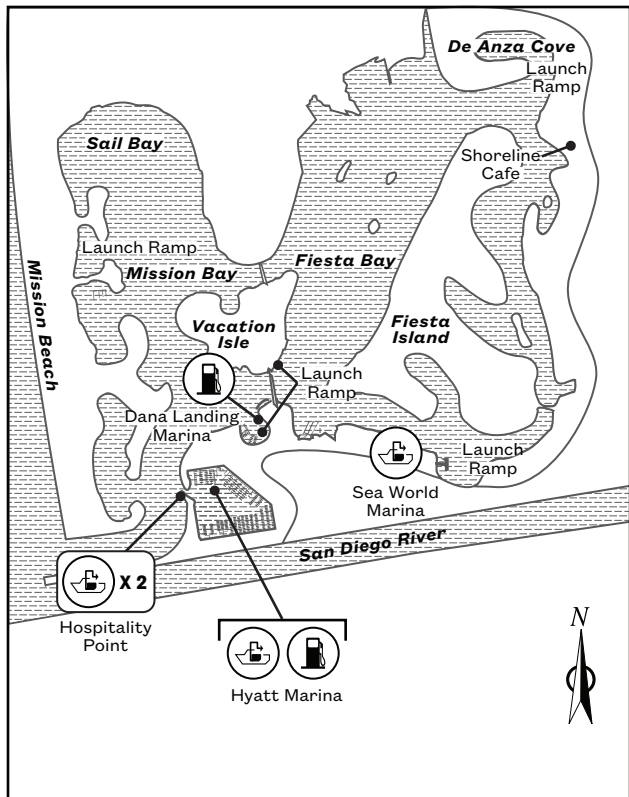


**SEWAGE
PUMPOUT**



**FISHING
LINE
RECYCLING**

MISSION BAY



MAPS ARE NOT TO SCALE AND NOT INTENDED FOR NAVIGATION
PLEASE CONTACT FACILITIES TO VERIFY SERVICES AND HOURS



FUEL

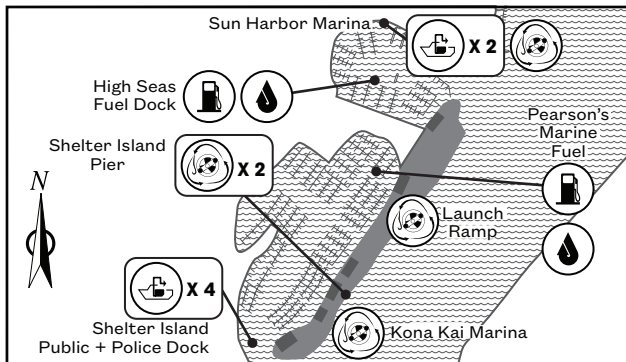


OIL
RECYCLING

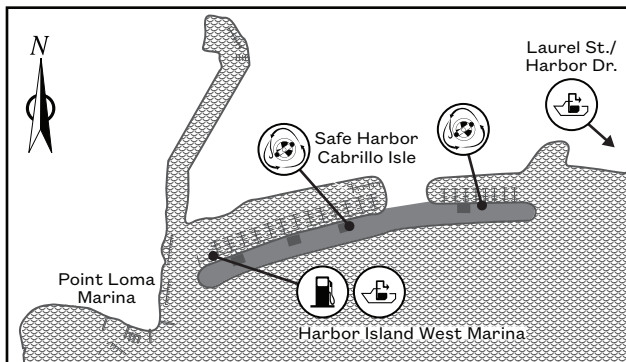


SEWAGE
PUMPOUT

SHELTER ISLAND



HARBOR ISLAND



FUEL



OIL RECYCLING



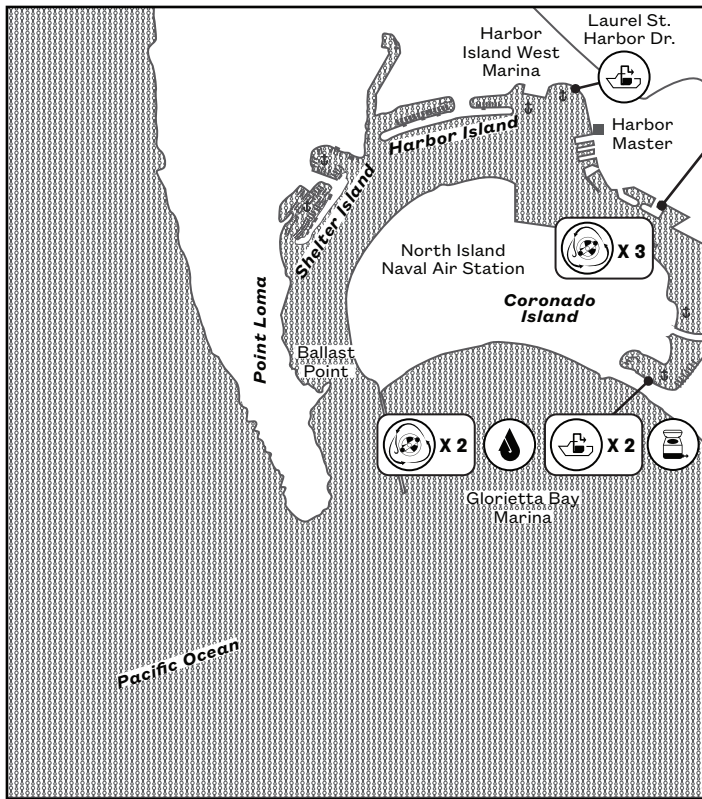
SEWAGE PUMPOUT

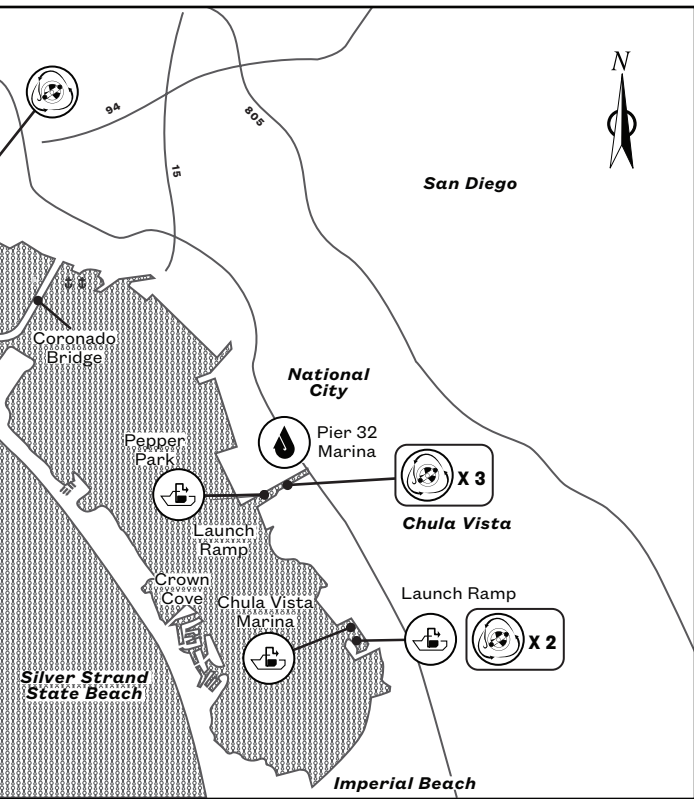


FISHING LINE RECYCLING

MAPS ARE NOT TO SCALE AND NOT INTENDED FOR NAVIGATION
PLEASE CONTACT FACILITIES TO VERIFY SERVICES AND HOURS

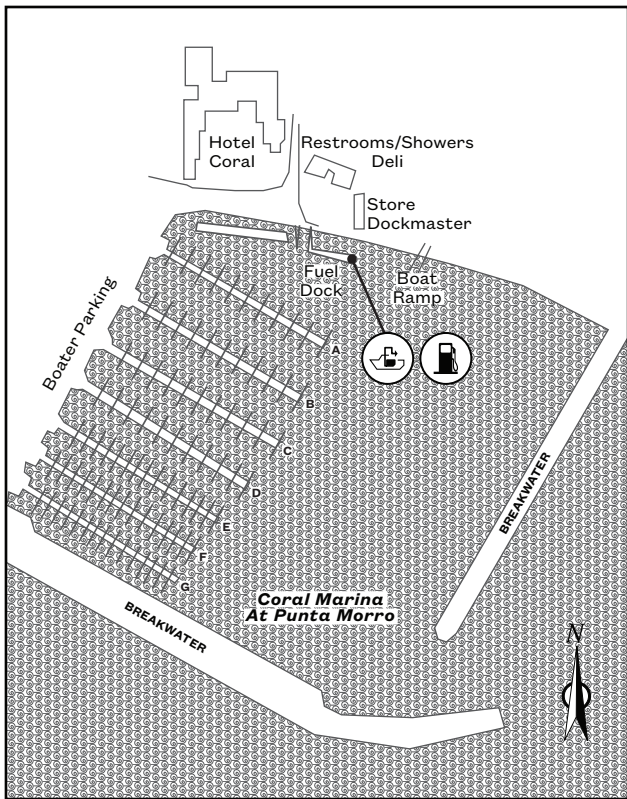
SAN DIEGO





MAPS ARE NOT TO SCALE AND NOT INTENDED FOR NAVIGATION
PLEASE CONTACT FACILITIES TO VERIFY SERVICES AND HOURS

CORAL MARINA



MAPS ARE NOT TO SCALE AND NOT INTENDED FOR NAVIGATION
PLEASE CONTACT FACILITIES TO VERIFY SERVICES AND HOURS



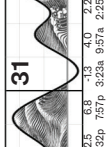
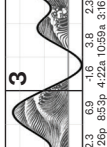
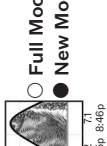
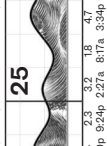
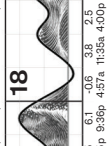
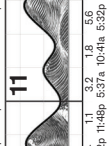
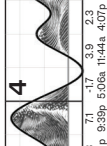
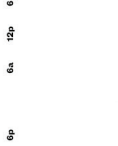
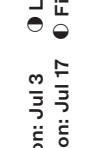
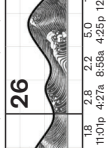
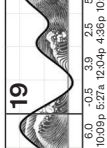
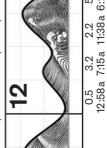
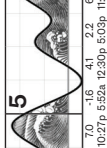
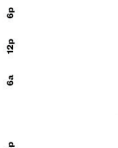
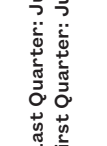
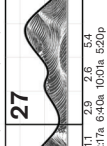
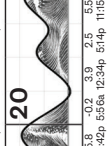
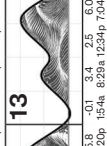
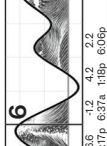
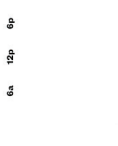
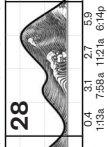
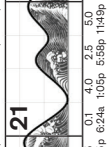
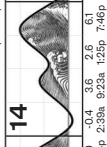
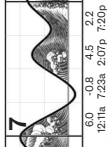
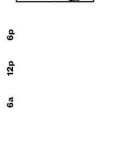
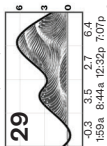
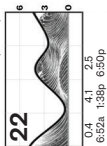
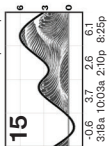
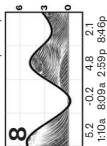
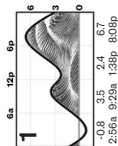
FUEL



SEWAGE
PUMPOUT

JULY 2023

SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY



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JUNE						
S	M	T	W	T	F	S
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

○ Full Moon: Jul 3
● New Moon: Jul 17

○ Last Quarter: Jul 10
● First Quarter: Jul 26

AUGUST						
S	M	T	W	T	F	S
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

AUGUST 2023

SUNDAY

MONDAY

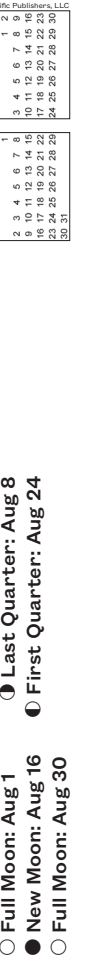
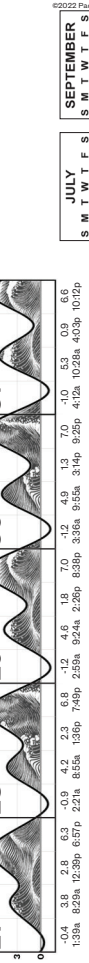
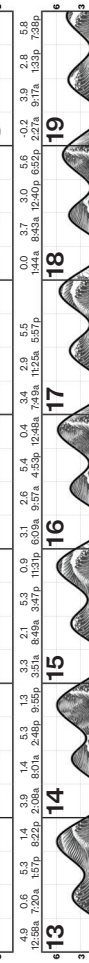
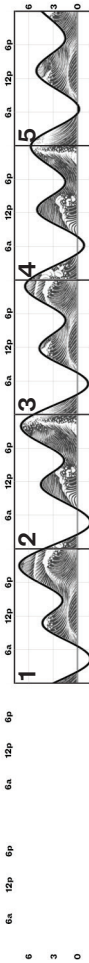
TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY



SEPTEMBER

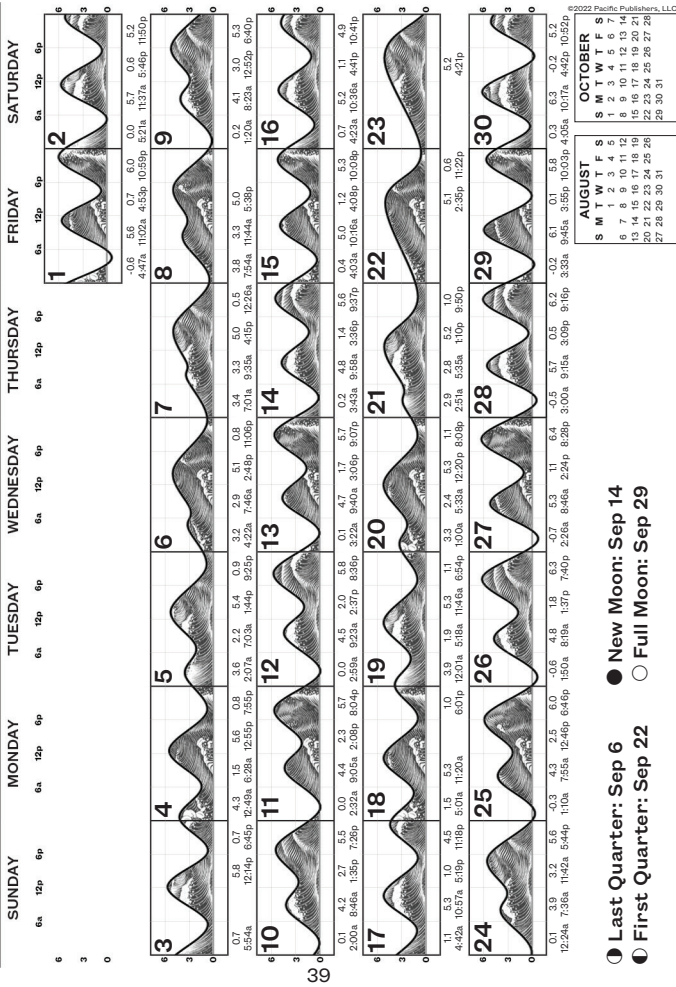
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17	18	19	20	21	22	23
24	25	26	27	28	29	30

JULY

S	M	T	W	T	F	S
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

- Full Moon: Aug 1
- New Moon: Aug 16
- Full Moon: Aug 30
- Last Quarter: Aug 8
- First Quarter: Aug 24

SEPTEMBER 2023



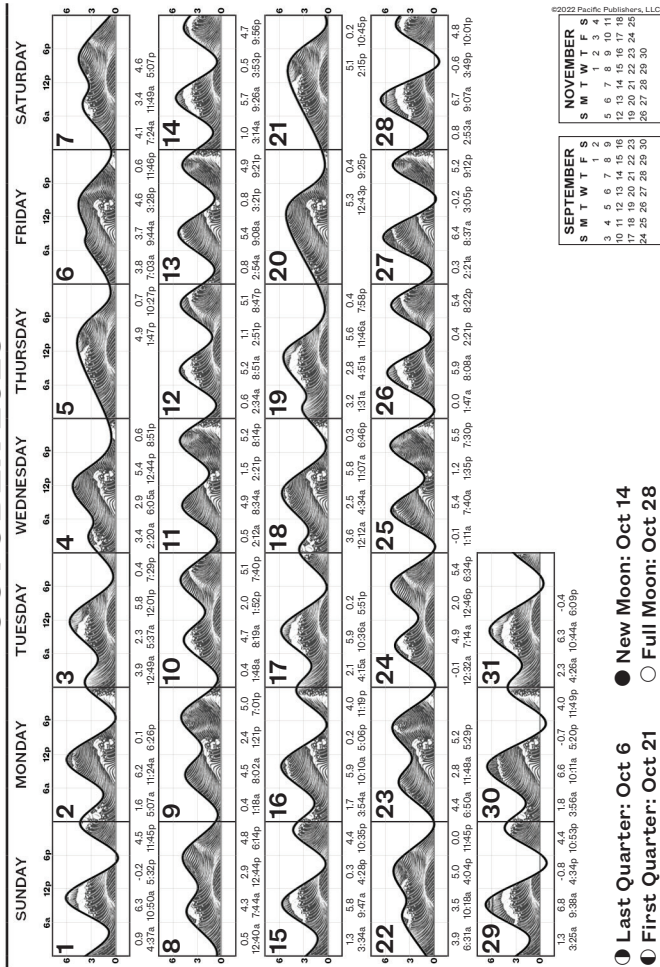
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AUGUST						
S	M	T	T	F	S	S
1	2	3	4	5	6	7
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

OCTOBER						
S	M	T	T	F	S	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

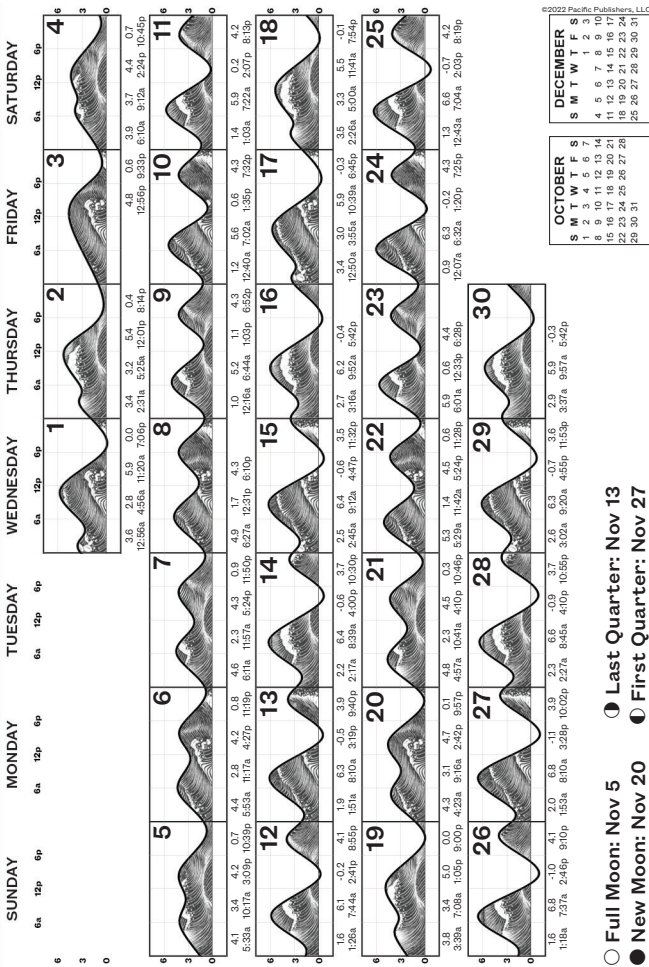
- Last Quarter: Sep 6
- New Moon: Sep 14
- First Quarter: Sep 22
- Full Moon: Sep 29

OCTOBER 2023



- Last Quarter: Oct 6
- New Moon: Oct 14
- First Quarter: Oct 21
- Full Moon: Oct 28

NOVEMBER 2023



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DECEMBER	S	M	T	W	T	F	S
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31

OCTOBER	S	M	T	W	T	F	S
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31				

- Full Moon: Nov 5
- Last Quarter: Nov 13
- New Moon: Nov 20
- First Quarter: Nov 27

DECEMBER 2023

SUNDAY

MONDAY

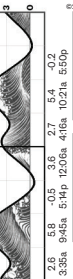
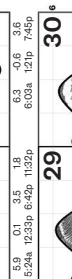
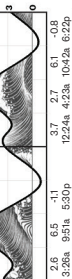
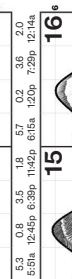
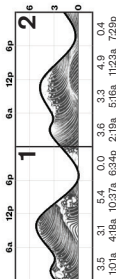
TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY



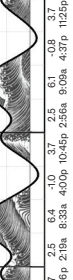
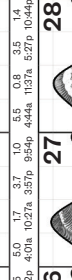
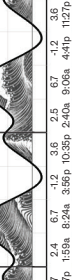
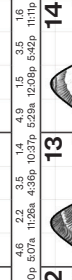
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NOVEMBER						
S	M	T	W	T	F	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JANUARY						
S	M	T	W	T	F	S
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Full Moon: Dec 4
New Moon: Dec 19

Last Quarter: Dec 12
First Quarter: Dec 26



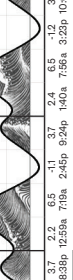
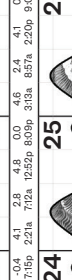
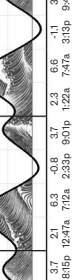
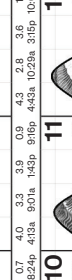
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NOVEMBER						
S	M	T	W	T	F	S
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19	20	21	22	23	24	25
26	27	28	29	30	31	

JANUARY						
S	M	T	W	T	F	S
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
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28	29	30	31			

Full Moon: Dec 4
New Moon: Dec 19

Last Quarter: Dec 12
First Quarter: Dec 26



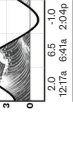
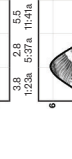
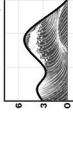
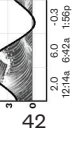
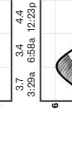
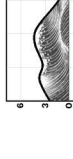
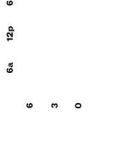
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NOVEMBER						
S	M	T	W	T	F	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JANUARY						
S	M	T	W	T	F	S
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Full Moon: Dec 4
New Moon: Dec 19

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First Quarter: Dec 26



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NOVEMBER						
S	M	T	W	T	F	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JANUARY						
S	M	T	W	T	F	S
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Full Moon: Dec 4
New Moon: Dec 19

Last Quarter: Dec 12
First Quarter: Dec 26

2023 SUNRISE AND SUNSET

OBSERVED FROM SEA LEVEL IN LOS ANGELES

Pacific Standard Time, corrected for Daylight Saving Time

JANUARY	RISE	SET
1	6:54	4:53
8	6:55	4:58
15	6:55	5:05
22	6:52	5:11
29	6:49	5:18

FEBRUARY		
1	6:47	5:21
8	6:42	5:28
15	6:35	5:34
22	6:28	5:40
28	6:21	5:45

MARCH		
1	6:20	5:46
8	6:11	5:52
15	7:02	6:57
22	6:52	7:03
29	6:43	7:08

APRIL		
1	6:39	7:10
8	6:30	7:15
15	6:21	7:20
22	6:13	7:26
29	6:05	7:31

MAY		
1	6:03	7:32
8	5:56	7:38
15	5:51	7:43
22	5:46	7:48
29	5:43	7:53

JUNE		
1	5:42	7:54
8	5:40	7:58
15	5:40	8:01
22	5:41	8:03
29	5:43	8:04

JULY	RISE	SET
1	5:44	8:04
8	5:47	8:03
15	5:51	8:01
22	5:56	7:58
29	6:01	7:53

AUGUST		
1	6:03	7:51
8	6:08	7:45
15	6:12	7:38
22	6:17	7:30
29	6:22	7:21

SEPTEMBER		
1	6:24	7:17
8	6:29	7:08
15	6:33	6:58
22	6:38	6:49
29	6:43	6:39

OCTOBER		
1	6:44	6:36
8	6:49	6:27
15	6:55	6:18
22	7:00	6:10
29	7:06	6:02

NOVEMBER		
1	7:09	6:00
8	6:15	4:53
15	6:21	4:49
22	6:28	4:45
29	6:34	4:43

DECEMBER		
1	6:36	4:43
8	6:41	4:42
15	6:47	4:44
22	6:51	4:47
29	6:53	4:51



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