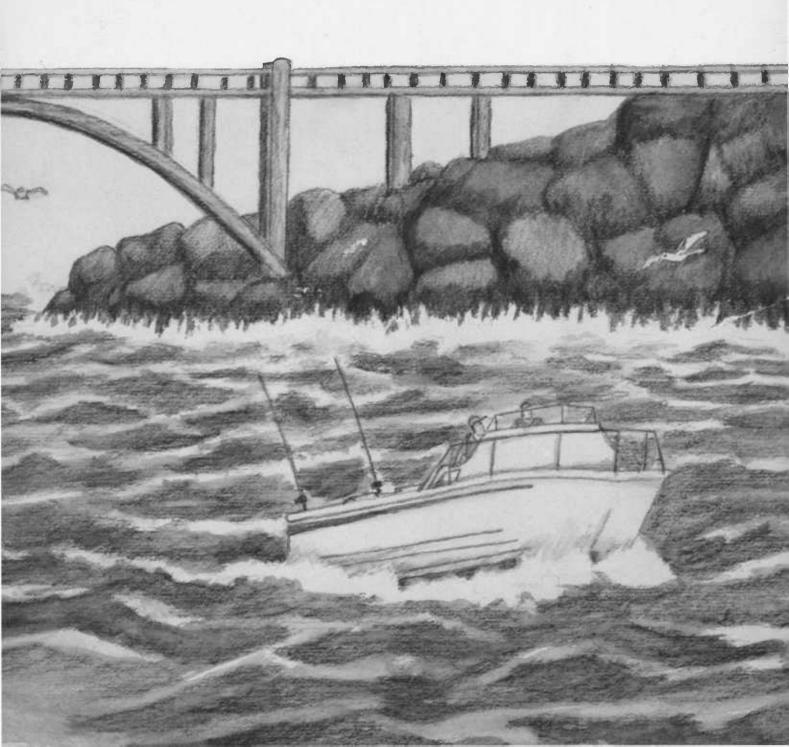
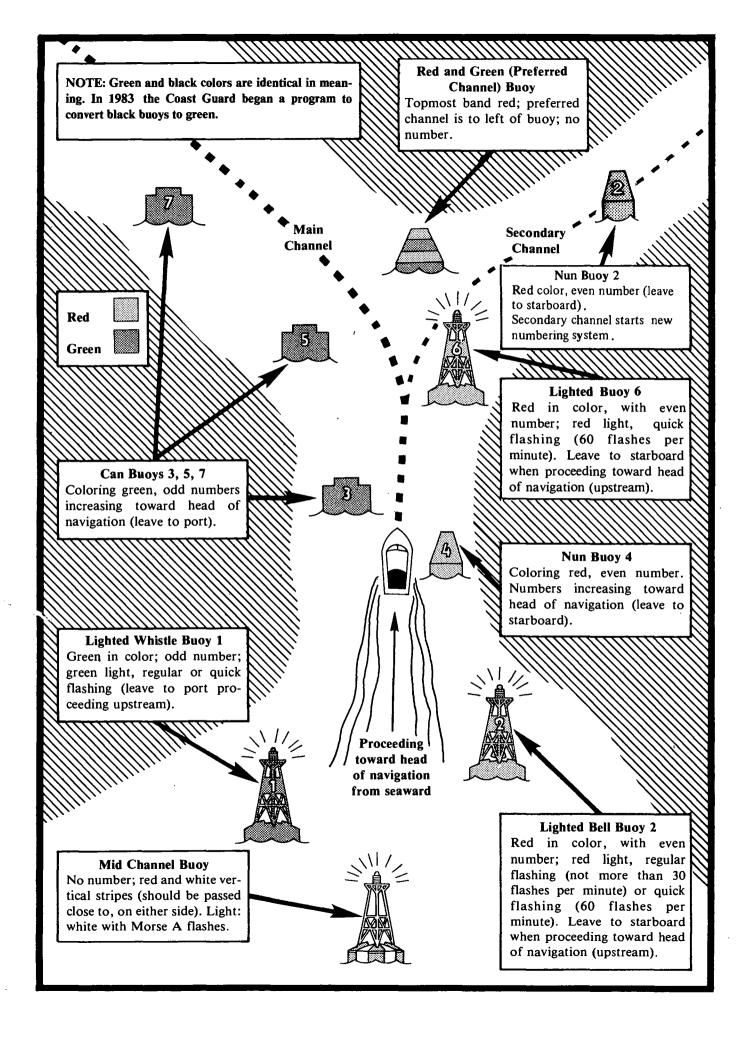
Boating in Thu 27620 Oregon Coastal Waters

Oregon State Marine Board • Oregon State University Extension/Sea Grant Program Revised Edition 1993 **Extension Manual 3**





Boating in Oregon Coastal Waters

Seventh Revised Edition 1993

Oregon State Marine Board Salem 97310

Oregon State University Extension Sea Grant Program
Corvallis 97331



STATE MARINE BOARD

Dear Coastal Boater,

Boating in Oregon Coastal Waters is intended to help you navigate safely and confidently along our beautiful--and often hazardous-coastline.

Conditions along the Oregon coast challenge even the most experienced boaters. Shoals, bar entrances, river and tidal currents, ocean swells and winds often create dangerous conditions for vessels of all sizes. Pleasant seas and fair weather can change quickly on the open ocean and across the bar.

Safe boating on Oregon's coastal waters demands proper preparation, good boat handling skills, and knowledge of bar entrances. This publication contains photographs and charts of each bar entrance as well as local hazard information. It also provides general information about how to operate a boat safely, references for further reading, and telephone numbers.

You should consider this guide as a starting point in your preparation to safely navigate the coast. If you are new to boating on the ocean, we recommend you take a trip or two with a skipper who has experience on the Oregon coast. Also, check in with the U.S. Coast Guard for advice and updates about local conditions.

We urge novice boaters to take a boating course offered by the U.S. Coast Guard Auxiliary or the U.S. Power Squadron. The Oregon State Marine Board offers a fine correspondence course, "Oregon Boating Basics."

We hope all your experiences on the Oregon coast are enjoyable and safe.

Oregon State Marine Board Tom Keel, Umpqua, Chairperson Randall Cummings, The Dalles Don Christensen, Depoe Bay John Keyser, Wilsonville Tom O'Connor, Lake Oswego



CONTENTS .

| Buoy Markings inside front cover | U.S. Coast Guard Stations |
|--|--|
| Going Somewhere? (Float Plan) 5 | U.S. Coast Guard Auxiliary Patrols 8 |
| Storm Signals 6 | Crossing the Bar |
| Storm Warnings 6 | Tides |
| Storm Warning Display Stations 6 | Capsizing |
| Rough Bar Advisory Signs 6 | Termination of Use on Coastal Bars |
| Marine Emergency and Distress | Fog |
| Radio Procedures 6 | Knots to Know 10 |
| U.S. Coast Guard Search and Rescue | Dangers Near Large Vessels 11 |
| Stations with Standard | Required Safety Equipment 11 |
| 4-Watt CB Equipment 7 | Recommended Safety Equipment 11 |
| Signalling for Assistance 7 | Coastal Bars, Bays, and Rivers 11 |
| Aids to Navigation 7 | Suggestions for Further Reading 11-12 |
| Charts for Coastal Waters 8 | Coast Map 12 |
| | |
| Coastal Bars. | Bavs. and Rivers |
| ŕ | Bays, and Rivers |
| Columbia River 13-15 | Yaquina Bay 30-31 |
| Columbia River 13-15 Nehalem River 16-17 | Yaquina Bay |
| Columbia River 13-15 Nehalem River 16-17 Tillamook Bay 18-19 | Yaquina Bay 30-31 Alsea Bay 32-33 Siuslaw River 34-35 |
| Columbia River 13-15 Nehalem River 16-17 Tillamook Bay 18-19 Netarts Bay 20-21 | Yaquina Bay 30-31 Alsea Bay 32-33 Siuslaw River 34-35 Umpqua River 36-37 |
| Columbia River 13-15 Nehalem River 16-17 Tillamook Bay 18-19 Netarts Bay 20-21 Cape Kiwanda 22 | Yaquina Bay 30-31 Alsea Bay 32-33 Siuslaw River 34-35 Umpqua River 36-37 Coos Bay 38-39 |
| Columbia River 13-15 Nehalem River 16-17 Tillamook Bay 18-19 Netarts Bay 20-21 Cape Kiwanda 22 Necanicum River 23 | Yaquina Bay 30-31 Alsea Bay 32-33 Siuslaw River 34-35 Umpqua River 36-37 Coos Bay 38-39 Coquille River 40-41 |
| Columbia River 13-15 Nehalem River 16-17 Tillamook Bay 18-19 Netarts Bay 20-21 Cape Kiwanda 22 Necanicum River 23 Salmon River 23 | Yaquina Bay 30-31 Alsea Bay 32-33 Siuslaw River 34-35 Umpqua River 36-37 Coos Bay 38-39 Coquille River 40-41 Port Orford 42-43 |
| Columbia River 13-15 Nehalem River 16-17 Tillamook Bay 18-19 Netarts Bay 20-21 Cape Kiwanda 22 Necanicum River 23 Salmon River 23 Nestucca Bay 24-25 | Yaquina Bay 30-31 Alsea Bay 32-33 Siuslaw River 34-35 Umpqua River 36-37 Coos Bay 38-39 Coquille River 40-41 Port Orford 42-43 Rogue River 44-45 |
| Columbia River 13-15 Nehalem River 16-17 Tillamook Bay 18-19 Netarts Bay 20-21 Cape Kiwanda 22 Necanicum River 23 Salmon River 23 | Yaquina Bay 30-31 Alsea Bay 32-33 Siuslaw River 34-35 Umpqua River 36-37 Coos Bay 38-39 Coquille River 40-41 Port Orford 42-43 |

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OREGON STATE MARINE BOARD

Tom Keel, Umpqua, Chairperson Randall Cummings, The Dalles Don Christensen, Depoe Bay John Keyser, Wilsonville Tom O'Connor, Lake Oswego

OREGON STATE UNIVERSITY EXTENSION SERVICE

Extension Sea Grant Program Bruce De Young, *Leader*

GOING SOMEWHERE?

Leave a float plan with a friend or relative. If you make changes in it, let that person know before you go. Should disaster strike, a few minutes could mean a lifetime of difference. Here's a sample plan:

| _ | | Business phone number | | |
|---------------------------------------|---------------|-----------------------|-----------------|---------------------------------------|
| Boat type | Color | of hull | | |
| Color of trim | Re | gistration n | umber | |
| Vame | Make | | Length | Other |
| Engine: Type | Hors | epower | Norn | nal fuel (gallons) |
| Number of persons | aboard (inclu | uding opera | tor) | |
| Name | Age | | Idress/Phone N | lumber |
| | | | | · · · · · · · · · · · · · · · · · · · |
| Survival Equipmen Lifejackets (num | | _ flares | mirror _ | |
| Flashlight | food | padd | | |
| Water | cushions | ··· | | |
| Radio | Frequencies | | | |
| tinerary: | | | | |
| - | | | | (time, date |
| • | | | | (time, date) and in no |
| event later tha | - | | | , , , |
| Other Information . | | | | |
| | .= | Traile | r license numbe | er |
| Auto license numbe | il | | | |
| | | | | call the Coast Guard or loca |

• If you were reported to the Coast Guard as overdue, notify them of your arrival.

Storm Signals

Certain locations along the Oregon Coast, such as Coast Guard Stations, marinas, public piers, and other points, display storm signals. These warning signals indicate a prediction of potentially dangerous wind or, in the case of small craft warnings, winds and seas dangerous to smaller vessels. Boaters should be familiar with these signals and heed their warnings. Remember, these warning signals are for forecasting wind, as it may be calm at the time signals are hoisted. On the other hand, the boater must realize the wind might be blowing or the seas rough enough to make boating dangerous even with no warnings up and blue skies overhead.

Safe boaters make it an unbreakable rule to stay ashore voluntarily when storm signals are up or high winds or rough seas are present. The Coast Guard is empowered to prevent small craft from leaving protected waters when sea conditions are dangerous or storm signals are displayed. This service can and does tow in boaters who refuse to heed their warnings.

Storm Warnings

These warnings cover a wide range of wind speeds and/or sea conditions. Also, "small craft" includes boats of many designs and sizes. Mariners should regard the storm warnings as signals that wind and/or sea conditions may be dangerous or as a forecast of potentially dangerous conditions. More detailed information may be obtained by telephone or by listening to local radio stations, Coast Guard radio, or the Weather Service VHF/FM broadcasts. The Weather Service broad-

casts on frequencies of 162.400 and 162.550 MHz with transmitters at Astoria, Newport, Coos Bay, and Brookings.

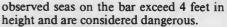
Storm Warning Display Stations

Washington Stations Cape Disappointment (CG) D Oregon Stations Tillamook Bay Harbormaster D Depoe Bay STA (CG) D Yaquina Bay STA (CG) D Siuslaw River STA (CG) D Umpqua River STA (Winchester Bay) (CG) D Umpqua River Lookout D Coos Bay STA (CG) D Chetco River STA (CG) D (D, day displays; CG, Coast Guard; STA, station.)

Rough Bar Advisory Signs

The Coast Guard has established a standard rough bar advisory sign. Its position changes from port to port and is included in the bar descriptions that follow.

The sign is 6' × 6' white, diamondshaped daymark with a bright orange border, carrying the words "ROUGH BAR" in black letters. Two alternate flashing amber lights will be turned on when



If the lights are not flashing, this is no guarantee that sea conditions are favorable.

Marine Emergency and Distress Radio Procedures

Speak slowly and clearly Call:

- If you are in distress (that is, when threatened by grave and imminent danger), transmit the International Distress Call on channel 16: "MAYDAY, MAYDAY, MAYDAY, This is [your vessel's VHF call number and name repeated three times]."*
- 2. If you need information or assistance from the Coast Guard (other than in a distress, call the Coast Guard on channel 16 (the distress and calling frequencies). In this situation, you will normally be shifted to a common working frequency (channel 22A), allowing the distress frequency to remain open.

If you're aboard a vessel in trouble, state:

- 1. Who you are (your vessel's VHF call number and name).
- Where you are (your vessel's position in latitude/longitude, Loran coordinates, depth of water, or true bearing and distance in nautical miles from a widely known geographical point; local names known only in the immediate vicinity are confusing).
- If you require Coast Guard assistance, and whether or not you are in immediate danger.
- 4. What is wrong (nature of distress or difficulty, if you are not in distress).
- 5. Number of persons aboard and the condition of anyone injured.
- 6. Kind of assistance required.
- 7. Present seaworthiness of your vessel.
- Description of your vessel length, type, cabin, masts, power, color of hull, superstructure and trim.
- 9. Your listening frequency and schedule.
- 10. Weather conditions.

If you are observing another vessel in difficulty, give:

- Your position and (if possible) the bearing and distance of the vessel in difficulty.
- 2. Nature of distress or difficulty.

^{*} If you have the Radiotelephone Alarm Signal available, transmit it before the Distress Call, for approximately 1 minute. The Radiotelephone Alarm Signal consists of two audio tones, of different pitch, transmitted alternately. Its purpose is to attract the attention of persons on watch, and it shall only be used to announce that a distress call or message is about to follow.

- 3. Description of the vessel in distress or difficulty (see item 8, above).
- 4. Your intentions, course, and speed, etc.
- Your radio call sign, name of your vessel, listening frequencies and schedule.

Note: The international signal for an aircraft that wants to direct a surface craft to a distress is:

Circling the surface craft, opening and closing the throttle or changing propeller pitch (noticeable by change in sound) while crossing ahead of the surface craft, and proceeding in the direction of the distress. If you receive such a signal, you should follow the aircraft. If you cannot do so, try to inform the aircraft by any available means.

If your assistance is no longer needed, the aircraft will cross your wake, opening and closing the throttle or changing the propeller pitch. If you are radio-equipped, you should attempt to communicate with the aircraft on 2182 kHz or 156.8 mKz when the aircraft makes the above signals or makes any obvious attempt to attract your attention. In the event you cannot communicate by radio, be alert for a message block dropped from the aircraft.

U.S. Coast Guard Search and Rescue Stations

In Oregon
Astoria
Chetco River
Coos Bay
Depoe Bay
Siuslaw River
Tillamook
Umpqua River
Yaquina Bay

In Washington
Cape Disappointment

CB channel 9 distress frequency is not a reliable method for reporting marine emergencies. VHF-FM channel 16 is more reliable.

Signalling for Assistance

Rendering assistance to mariners is one of the primary functions of the Coast Guard. The following signals are recognized as indicating a vessel in distress and requiring assistance. (These are in addition to the carriage of required visual distress signalling devices on coastal waters. See page 11.) A boat in distress can signal for assistance by:

- 1. Firing a gun or other explosive device into the air at about 1 minute intervals.
- 2. Continuous sounding of any fog-signal apparatus.
- 3. Shooting flares or rockets skyward.

- 4. Sending a message by radio-telephone.
- Waving both arms from alongside the body to over the head in an up-anddown motion.
- Waving side to side over the head any orange-red flag or any garment of any size that can be attached to a fishing pole or long rod.
- 7. Tying a 72-inch fluorescent, orange-red cloth inscribed with an 18-inch black circle and an 18-inch black square, 18 inches apart on the major axis of the flag. This type of signal is to be tied to a hatch or cabin top for ready spotting by aircraft.
- 8. SOS by spotlight.

All Coast Guard Stations are constantly on the alert for vessels that might be in distress. If a vessel is seen displaying or showing any unusual signal or acting in an unusual manner, the Coast Guard will always check to determine if help is needed.

When a boat operator arrives at a harbor where a Coast Guard Station is located and, after surveying the bar, notices it is too rough to make an attempt to cross into port, it is suggested that the operator contact the Coast Guard station by using VHF channel 16.

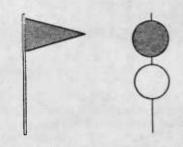
Aids to Navigation

Oregon Coastal waters are marked for safe navigation by the IALA system of buoyage. This system employs a simple arrangement of colors, shapes, numbers, and light characteristics to reveal the side on which a buoy should be passed when proceeding in a given direction. The expression "red right returning" has long been a saying of seafaring men to remind them that red buoys should be on the starboard (right) side when traveling from the open sea into bays (upstream). Likewise, green buoys are on the port (left) side.

Conversely, when proceeding toward the sea (downstream), red buoys are to port (left side) and green buoys are to starboard (right side). These buoys — their numbers, colors, and characteristics — are plotted on all nautical charts. (See the inside front cover.)

Buoys should not be considered as immovable objects. They are occasionally missing, adrift, or off the charted position due to heavy storms, unusual tides, or collisions. Also, many buoys are shown on charts but are in position only in the summer. The Coast Guard removes them in the fall because winter storms would move them out of position or carry them away. Off Newport, for example, buoys #2 and #3 are gone in winter.

Small Craft

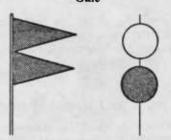


DAYTIME SIGNAL

NIGHT SIGNAL

One RED pennant displayed by day and a RED light over a WHITE light at night to indicate winds as high as 33 knots (38 m.p.h.) and/or sea conditions considered dangerous to small craft operations are forecast for the area.

Gale

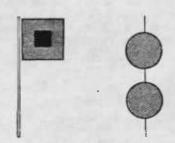


DAYTIME SIGNAL

NIGHT SIGNAL

Two RED pennants displayed by day and a WHITE light above a RED light at night to indicate winds within the range 34 to 47 knots (39 to 54 m.p.h.) are forecast for the area.

Storm



DAYTIME SIGNAL

NIGHT SIGNAL

A single square RED flag with a BLACK center displayed during daytime and two RED lights at night to indicate that winds 48 knots (55 m.p.h.) and above are forecast for the area. If the winds are associated with a tropical cyclone (hurricane), the "Storm Warning" display indicates winds 48 to 63 knots (55 to 73 m.p.h.) are forecast.

Whistles, bells, and gongs, which are attached to some buoys, are activated by the action of the sea, so when the sea is calm, they may sound irregularly.

Buoys are anchored by a scope of chain that allows the buoy to move with the wind and current for a considerable distance. Keep well clear when passing and never moor to them; it is a punishable Federal offense.

To help boat operators navigate within channels, range markers have been erected in many rivers and bays. These consist of widely separated, brightly painted pairs of targets, or markers. Range markers are international orange with a black stripe and rectangular. They are mounted on skeleton towers or on pilings, and may be in the water or onshore. Consult the appropriate navigation chart for locations of range markers. Steering a course that keeps the two range markers in line while operating within a channel marked by buoys will keep the boat within the chan-

For additional aids to navigation, a useful reference is Coast Guard publication Light List, Volume VI, Pacific Coast and Pacific Islands.

Charts for Coastal Waters

Charts of the Pacific Coast are available from the U.S. Department of Commerce's National Ocean Service. Nautical Chart Catalog 2, United States Pacific Coast Including Hawaii, Guam and Samoa Islands, lists all charts produced for the West Coast by the National Ocean Service. Copies of the catalog are available free from: Distribution Branch, N/CG 33, 6501 Lafayette Ave., Riverdale, MD 20737-1199.

Charts and related publications of the National Ocean Service can also be purchased in Oregon from the authorized National Chart Agents listed below:

Englund Marine Supply Co. Astoria: Foot of 15th St. Brookings: Lorings Lighthouse Sporting Goods 554 Chetco Ave Charleston: Basin Tackle Shop

4565 Kingfisher Rd Englund Marine Supply Co

5080 Cape Arago Hwy

Eugene: Wright Communications 2824 Stark St

Florence: Siuslaw Marina 06516 Hwy 126

Garibaldi: Old Mill Marina 210 S 3rd St

Gold Beach Gold Beach Hrdw & RV Center 235 Stewari St

Harbor: Hanscam's Center Ltd 16399 Lower Harbor Rd N Bend: Oregon Pacific Co 1760 Sheridan Newport: B & F Marine Electronics 134 SW Bay Blvd On the Bay-Waterfront Englund Marine Supply Co 424 SW Bay Blvd

103 SE Bay Blvd Portland: Captain's Nautical Supplies 138 NW 10th Ebb & Flow Kayak Center Inc 0604 SW Nebraska St Fisherman's Marine Supply 901 N Columbia Blvd Rodgers Marine Electronics 3445 NE Marine Dr West Marine Products 12055 N Center Ave

Schiewe Marine Supply

Winchester Shamrock Charters Bay: Reach Blvd

Location

U.S. Coast Guard Stations

Telephone

| - 010p.10110 |
|--------------|
| |
| 322-3531 |
| 765-2123 |
| 765-2124 |
| 265-5382 |
| 997-2486 |
| |
| 271-2137 |
| 888-3266 |
| 469-2242 |
| |
| 6) 642-2382 |
| ly) 642-2381 |
| |

U.S. Coast Guard **Auxiliary Patrols**

A nationwide association of boaters, the United States Coast Guard Auxiliary is a nonmilitary organization administered by the Coast Guard, and its main purpose is the promotion of safe boating. Auxiliary members include yachtsmen, commercial fishermen, and others experienced in handling small vessels and knowledgeable in small boat safety.

During boating season auxiliary patrols supplement and assist the regular Coast Guard. Auxiliary vessels are readily identified by a blue and white flag or a large placard bearing the words "U.S. Coast Guard Auxiliary.'

These vessels are in constant communication with the regular Coast Guard patrol boats and lookout towers. By hailing these vessels, boat operators may obtain information regarding bar conditions, tides, weather, etc. The regular Coast Guard often relies on auxiliary vessels to assist in the dissemination of weather reports, bar and sea conditions, and other vital reports. When hailed by a

Coast Guard Auxiliary boat, a boater should heave to and heed the information. In the event of trouble, Coast Guard Auxiliary vessels will stand by to give assistance.

Crossing The Bar

The principal objective of recreational boating is pleasure. Boats provide safe, pleasurable recreation when operated within their limitations. Stability is a vital factor for boats cruising in coastal waters, and stability can be aided by proper loading. An improperly loaded or overloaded craft loses its stability, and is very susceptible to capsizing. Overloading increases the risk of seas breaking aboard. It is extremely important that boats operating along the coast have adequate freeboard.

Most boating accidents and fatalities on the coastal bars result from capsizing. A boat is much more apt to capsize when crossing the bar from the ocean. The seas are on the stern and the operator does not have as much control of the steerage. When looking at the bar from seaward, one does not see the front of the seas or breakers; consequently, the bar may be much rougher than it appears.

When there is the least uncertainty about bar conditions, boaters should take every precaution to avoid trouble. Radio the Coast Guard or raise another boat operator who can tell what the bar condition is. If necessary, circle the sea buoy, but make every effort to avoid difficulty.

If one is unexpectedly caught on a rough bar when running in, it is imperative to keep the boat square before the seas. Keep the boat on the back of a swell. Ride the swell and keep clear of the following wave. Preservation of the boat's stability is most important at this time, and a sudden shift of the passengers' weight in a small boat could prove dangerous. In fact, in a small boat the stability will be vastly improved if the passengers lie down in the bottom of the boat as near the center line as possible. Make sure that everyone aboard is wearing a personal flotation device (PFD) before crossing.

Most boating accidents on the coastal bars are caused by the boat operators allowing seas to catch their boats from the side, a situation called "broaching," which can result in capsizing. To prevent broaching, the operator must keep the boat square before the seas. The illustration above shows a boat broaching.

A large number of logs and deadheads are adrift in the navigable waters of Oregon at all times, particularly after storms, spring freshets, and unusually high tides. Boaters should always be on the lookout for such logs and deadheads.



Tides

Along the coast of the Pacific Northwest there are roughly two tides each day. Tides are the vertical rise and fall of the water, and a tidal current is the horizontal flow.

The movement toward shore or upstream is the flood current, and movement away from shore or downstream is the ebb current. The period between these two is called slack water. Tidal currents may gain tremendous velocity, particularly when the ebb current is reinforced by a river runoff during a high-low series.

Considered one of the greatest risks a boater could encounter is the craft's being caught in a shallow river entrance to the Pacific Ocean, known as a bar, at the time a swift ebb current meets incoming westerly waves. Such conditions result in the two opposing forces meeting to pile up water and waves break with tremendous force. Even on days when the sea is relatively calm, a fast-moving ebb has the potential to create a bar situation that could be too rough for small craft.

Boaters must always be conscious of the stage of the tide. Except on some few days when there is unusual calm or unless observation shows that the bar is down, cross from harbor to ocean on the slack or the flood tide, when the sea is calmest.

Veteran seamen advise all boat operators, if they are still inside the bar when heavy sea conditions exist, to remain there. If a boater is trapped outside a rough bar on an ebb tide, it is wise to lay-to and wait until the flood current or inflowing current is the dominant factor. If trapped outside a rough bar with a southwester developing 40-knot or better winds, it becomes a matter of judgment and experi-

ence, deciding whether to stay at sea with a sea anchor or risk crossing the bar. If possible, run to another port having more favorable bar conditions.

In a number of the river entrances there are shallows called sands, shoals, spits, or floats, on which waves build to the point that they become extremely dangerous to small boats. These areas should always be avoided.

Capsizing

One of the most basic precautions for all boaters is to wear a Coast Guard-approved personal flotation device (PFD) in any time of danger. Without a PFD, chances for surviving a sinking or capsizing in the cold waters off the Oregon coast are greatly reduced. If the boat capsizes, keep all persons together in one group, to help one another and to improve chances for rescue. It is far easier and quicker to locate and rescue a group than to find scattered individuals. Also, in a group, each person can help others stay afloat longer.

A second, all-important lifesaving rule is stay with the boat as long as it remains afloat. Most pleasure craft have built-in flotation that will keep them from sinking. Chances of being found and rescued are increased immensely by clinging to the easy-to-spot boat.

There is no substitute so effective as flares for signalling for aid at sea. If the boat is equipped with flares, use them to attract attention. If there is any warning that danger is imminent, before any emergency happens, get all passengers into PFD's and out of the cabin so that they will float free should the boat capsize.

When a boat capsizes, anyone inside is thrown into total darkness. Anyone trapped inside the cabin of a capsized boat should remove his or her PFD and try to swim out the cabin door. Cutting a hole through the hull can sink a capsized boat. Unless the hull has built-in flotation, cutting a hole for escape will release any air trapped inside — and the boat will sink. Although this is a critical time, it is absolutely vital to keep calm. Above all, keep from panicking.

Termination of Use on Coastal Bars

Federal law designates certain "Regulated Boating Areas" in the following Oregon bars and channel entrances:

Columbia River Nehalem River Tillamook Bay Netarts Bay Siletz Bay Depoe Bay Yaquina Bay Siuslaw River Umpqua River Coos Bay Bar Coquille River Rogue River Chetco River

Check with local Coast Guard Stations for the specific termination of use areas.

The regulation states: "The use of individual recreational boats can be terminated on the above-named bars or entrances when rough seas create a hazardous condition." The regulation will be enforced by specially trained Coast Guard boarding officers.

Fog

Fog is often encountered in coastal waters and is usually thick enough to hide all landmarks and other aids to navigation. When cruising or fishing along the coast or harbor entrance, make frequent observations of location, so at the first signs of fog, it will be possible to proceed to a sea buoy or, if practical, return to harbor.

A good, properly aligned compass is one of the essential items for a vessel's operation along the coast. A vessel attempting to run in the fog without steering by a compass course would wander aimlessly. When departing and returning to the harbor, the compass course and the time required to run between buoys should be recorded for reference. One must remember that the area surrounding the compass should be clear of iron or other ferrous metal objects at all times, as they will cause compass errors.

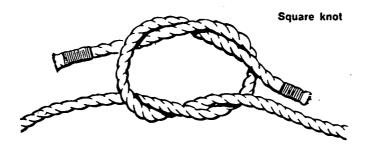
In addition to the tidal currents, there are currents that run along the beaches north and south. These are sometimes



Bowline

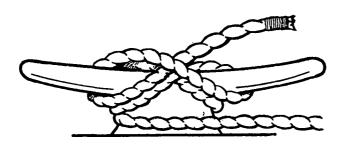


Becket bend

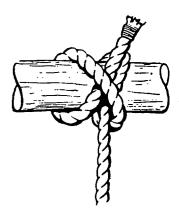


Knots to Know

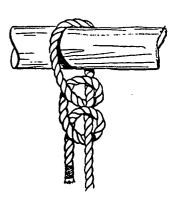
Knowing how and when to tie a few basic knots is indispensable for safe boating. Practice tying at least those shown here. The Coast Guard recommends knowing how to tie a bowline quickly in case the boater ever has to be towed to safety. It is a reliable knot for tying a line to any hardware eye or shackle. Use the square knot for tying together two lines of the same diameter. Beware of mistakes when tying the square knot; it is all too easy mistakenly to tie the treacherous granny knot when attempting a square knot. For connecting two lines of different size, use the becket bend. (The square knot will not hold with lines of different size.) A good knot — actually a hitch rather than a knot — for quickly securing a line to any vertical pole or post is the clove hitch. Use it only for a temporary tie-down. A second easy and reliable hitch for the same usage is the "turn" with 2 half hitches. Finally, be able to wrap a line about a cleat properly so that the line will hold yet can be easily unfastened using the free end of the line.



Correct method of making fast to a cleat



Clove hitch



Two half hitches

referred to as the "southerly set" or "northerly set." Careful operations are necessary to assure that these currents do not carry the boat off course or further from the harbor entrance than would normally be expected.

Boat operation during fog requires the boater to proceed at a slow speed and to keep a sharp lookout; stop occasionally and listen for other vessels, buoys, and the surf. If an operator is lost or is unsure of his or her whereabouts, it would be wise to anchor and wait for the fog to lift or help to arrive.

An inexpensive radar reflector or a metal object placed above the cabin on a light standard, or fixed as high as possible, will assist the Coast Guard in radar search — and help keep a boat from being run down!

As a reminder, International-Inland Navigational Rules require power boats operating under adverse conditions of reduced visibility to sound their whistles or horns: one prolonged blast of 4 to 6 seconds' duration at intervals of not more than 2 minutes. A ship at anchor must ring its bell rapidly for 5 seconds every minute. (Check the International-Inland Rules.)

Dangers Near Large Vessels

Large commercial ships frequently enter and leave the Columbia River, Yaquina Bay, and Coos Bay; and oceangoing tugs and barges make use of a number of the smaller ports. The size of these ships prevents their quick and easy maneuverability. Because of their deep draft, they must stay within the dredged ship channel.

Accordingly, within narrow channels the Navigation Rules give deep-draft ships the right of way in all circumstances. When underway, such huge ships cannot stop readily, because of their tonnage. Their momentum through the water will carry them forward for a great distance despite engines being stopped or reversed. Common sense, courtesy, and the law (the Rules of the Road) require that small boaters let these vessels have a wide berth. A good rule of thumb is to stay at least one ship length (500-600 feet) away from the ship's bow and at least 100 feet from the ship's side as it passes.

Boaters must realize there is a blind spot in the pilot's line of view from the bridge to the ship's bow. If a ship is bearing down on a smaller craft, the prudent boat operator will alter course promptly in order that the pilot will know his or her intentions. Remember: once the large vessel is on the bar or within the bay or river, it will have to remain in the confines of the channel or run aground.

Boaters should remember that if they are drifting off a harbor entrance and a

large freighter or tanker is coming toward them, they should get underway immediately and clear the channel. In many shipsmall boat collisions, it was found that the smaller craft's engine was slow to start, resulting in a disaster that could have been avoided.

From May through October, U.S. Army Corps of Engineers and contractor dredges are present in coastal harbor channels. Some dredges are held by anchor lines marked by buoys. Avoid both the lines and the dredge itself. Other dredges constantly maneuver. Do not pass in front of or cut in close to them. They cannot stop or turn easily.

Required Safety Equipment

Both Federal and Oregon law require that you have certain safety equipment aboard your boat at all times. For Oregon requirements, see the **Oregon Boaters Handbook**, latest edition, available from the Oregon State Marine Board.

Federal regulations are contained in Federal Requirements for Recreational Boats, available from your local Coast Guard Station.

Boats operating on coastal waters must be equipped with visual distress signals. The rules governing visual distress signals vary according to the size of your boat and its type of propulsion. For further information, ask for a copy of Visual Distress Signals for Recreational Boaters at your local Coast Guard Station.

Recommended Safety Equipment

In addition to equipment required by law, the prudent boater will carry the following extra gear:

- 1. Anchor with suitable line for anchoring.
- 2. Survival suits for all crew members.
- Retroreflective tape on life jackets, vests, ring buoys, rafts and survival suits.
- 4. Emergency Position Indication Radio Beacon (EPIRB).
- 5. VHF radio.
- 6. Flashlight with extra batteries.
- 7. First aid kit.
- 8. Local navigation charts by the National Ocean Survey.
- Emergency rations and drinking water.
- 10. Reliable and accurate compass.
- 11. Spare engine parts and tools.
- 12. Bucket for bailing.

Any new line ½-inch in diameter will hold most small boats except in severe storms — provided there is a short length of chain ahead of the anchor. The length of

the anchor line should be from 5 to 7 times the depth of the water in which the boat will be anchored. Ten to 12 feet of chain should be shackled to the anchor and fastened with a swivel to the anchor line. The long length of rope and the weight of the length of chain permit the anchor to lie flat on the bottom and the flukes to dig into the bottom to hold the boat. In severe storms, do not rely on any anchor and line to hold.

Another good practice of careful boaters is to equip their craft with a sturdy solid towing bitt located near the bow. Fastenings for the towing bitt should go through a metal plate attached to the inside of the hull to prevent the bitt from pulling out, in the event the craft is taken under tow during an emergency. Small bow rings, standard on many modern trailer boats, are not strong enough for towing at sea. They frequently break under stress, with disastrous results.

Coastal Bars, Bays, and Rivers

Each bar, bay, or river entrance on the Oregon coast presents its own set of challenges. The following pages present information on these waters that every boater should know before operating here. The descriptions are illustrated with aerial views of the channel entrances and annotated charts. Danger areas are represented on the charts by shading. In addition to buoys, aids to navigation in many of these channels include pairs of range markers. Steering a course to keep pairs of range markers in line will keep the boat within the channel.

Suggestions for Further Reading

- Chapman, Charles F., Piloting, Seamanship and Small Boat Handling, latest edition (New York: Hearst Books, Motor Boating and Sailing Division).
- Crawford, William P., Mariner's Notebook: A Guide to Boating Fundamentals, latest edition (San Francisco: Miller Freeman Publications, Book Division).
- Oregon Boating Facilities Guide, latest edition (Salem, OR: Oregon State Marine Board).
- Nautical Chart Catalog 2: United States Pacific Coast Including Hawaii, Guam and Samoa Islands, latest edition (Riverdale, MD: U.S Department of Commerce, National Oceanic and Atmospheric Administration, National Ocean Survey). Free from NOS and NOS agents; see page 8.

- Oregon Boating Basics, correspondence course, latest edition (Salem, OR: Oregon State Marine Board).
- Oregon Boaters Handbook, latest edition (Salem, OR: Oregon State Marine Board).
- U.S Coast Pilot 7: California, Oregon, Washington, and Hawaii, latest edition (Washington D.C.: U.S Department of Commerce, National Oceanic and Atmospheric Administration, National Ocean Survey). For sale by NOS and NOS agents: see page 8.

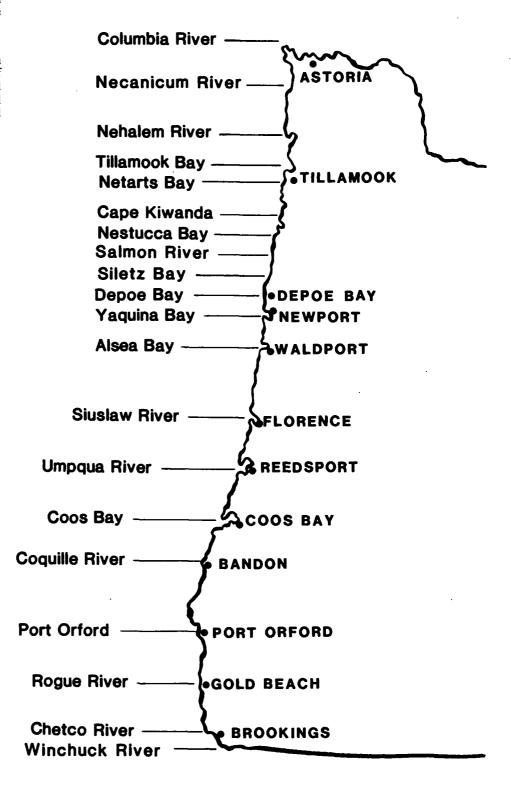




PHOTO COURTESY U.S. ARMY CORPS OF ENGINEERS, SUMMER 1986

COLUMBIA RIVER (See pages 14-15)

Columbia River

Danger Areas

- A. Chinook Spur, Upper, Lower, and Middle Sand Island Spurs are built on two rows of staggered pilings. Currents flowing through these pilings attain a velocity of 5 knots or more. A boat that becomes disabled or is maneuvered in such a way that it comes in contact with any of these spurs is almost sure to suffer damage. Even large boats have been capsized in these areas. Give these spurs a wide berth and never get close to them on the up-current side.
- B. Clatsop Spit is an unpredictable area of the river entrance. During flood currents and slacks it may be relatively calm, with only a gentle swell breaking far in on the spit. Yet 5 or 10 minutes later, when the current has started to ebb, it can become extremely treacherous, with breakers extending far out toward the channel. Boaters should remain north of the red buoys in this area, particularly just before or during the ebb.

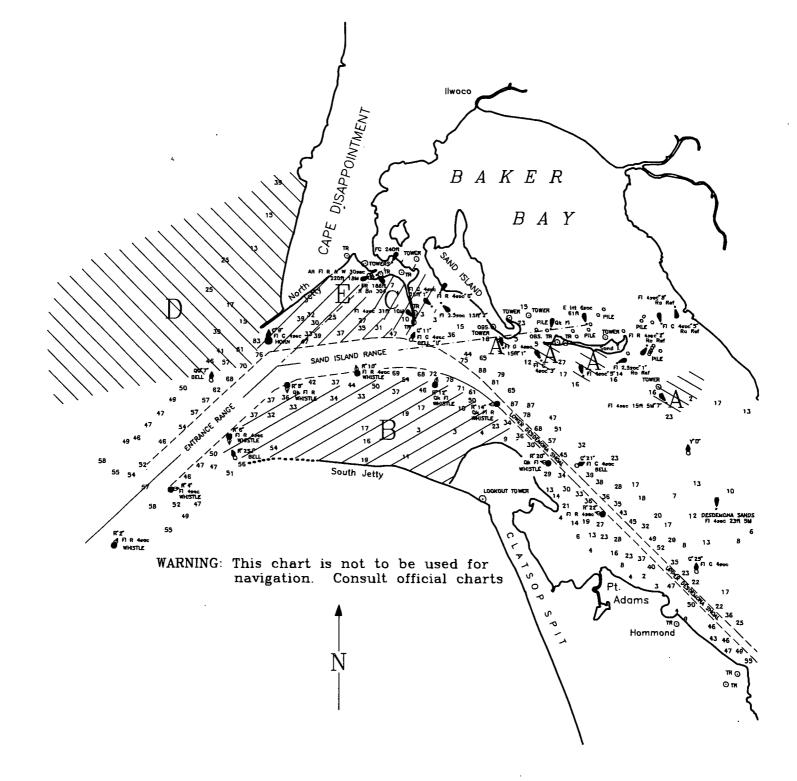
Breakers extend out past buoy #8. On a flood tide, you can be carried into Clatsop Spit. Be prepared to anchor.

- The south jetty has a section broken away on the outer end. The broken section is under water, close to the surface. If you are relatively close and your engine fails, the flood or ebb current will take you across the submerged jetty. Boaters should use extra caution in the area from the visible tip of the jetty to buoy #2SJ, which marks the western end of the submerged portion of the south jetty. On the flood, a dangerous rip can occur over the sunken jetty. Do not cross the submerged jetty.
- C. Jetty A, which is southeast of Cape Disappointment, presents a particular danger when the current is ebbing. Water flowing out of the river is deflected by the jetty, and frequently the current reaches 8 knots. This often causes waves up to 8 feet high. Boats proceeding into Baker Bay west channel make very little speed against the swift current and are exposed to the rough water (or surf on rough days) for long periods of time. The shallow, sandy area should be avoided by small craft when heavy seas are running because of the surf that breaks on the beach. Look for the entrance marked by day marks 1 and 2 with green and red lights respectively.
- D. Peacock Spit. Waves in Peacock Spit break from three different directions. If you lose power on the bar during an ebb current, your vessel will be carried into Peacock Spit and is in danger of capsizing. Breakers may be heavy in any type of current. Sports craft leaving the river should never be on the north side of the green buoys. When rounding Peacock Spit, even on a calm summer day, one should give the breakers at least a halfmile clearance. Many times on these same summer days "sneakers," unusually large swells coming in from the sea, suddenly commence breaking 1/4 to 1/2 mile outside the usual break on the end of the north jetty.
- E. Middle Ground. This is a shallower area between the north jetty and the main ship channel that is subject to breaking seas when swells as small as 4 feet are present. Breakers are much wider and have more velocity than in other areas. Conditions can change in minutes with tide current changes.

Bar Condition Reports

KAST (1370) kHz): 5 minutes and 30 minutes after the hour, seven days a week.

Weather Conditions KPD485 (1610 kHz).



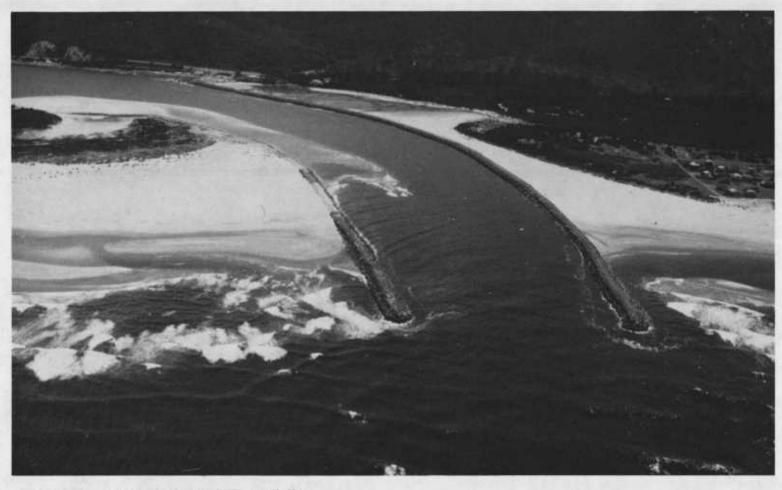


PHOTO COURTESY U.S. ARMY CORPS OF ENGINEERS, JULY 1984.

Nehalem River

Danger Areas

- A. Crab Rock. Crab Rock is located about 150 yards southwest of Jetty Fisheries Resort docks and is a hazard to small boats when it is covered by water. The hazard is sometimes marked by a privately maintained red buoy just westward of the rock. If the buoy is present, stay to the right of it when outbound and to the left when inbound.
- **B. Bar area.** The entire area between the beach and the 30-foot curve is bar area

and breaks on the ebbing current. The safest channel across the bar is subject to frequent change. Boats proceeding out should stop just inside the entrance and carefully evaluate the bar. If the bar is breaking, do not cross. If a decision is made to cross, pick the calmest area and proceed, but do not attempt to turn around if the bar is breaking.

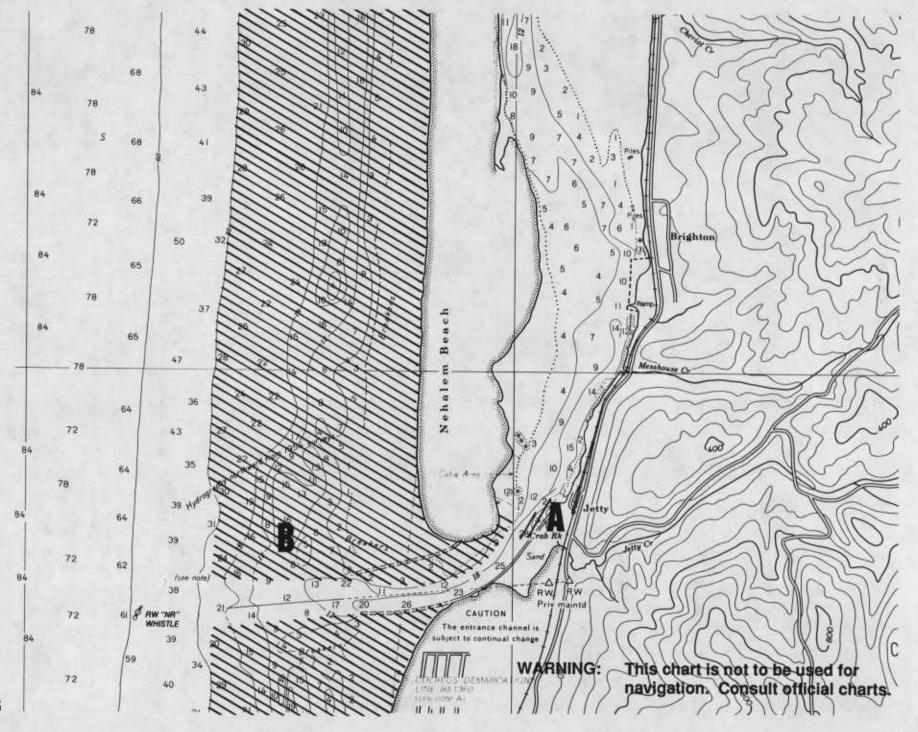
Entrance

The best water is close to the south jetty. The channel seaward of the jetties is

continually shifting, and local knowledge is needed to cross it safely. The range markers, therefore, do not necessarily show the exact channel and are also obstructed by trees.

Bar Condition Reports

KTIL (1590 kHz): twice daily and when conditions change. During the summer, the Coast Guard will broadcast bar conditions on VHF channels 16 and 22 only when a Coast Guard boat is patrolling the area.



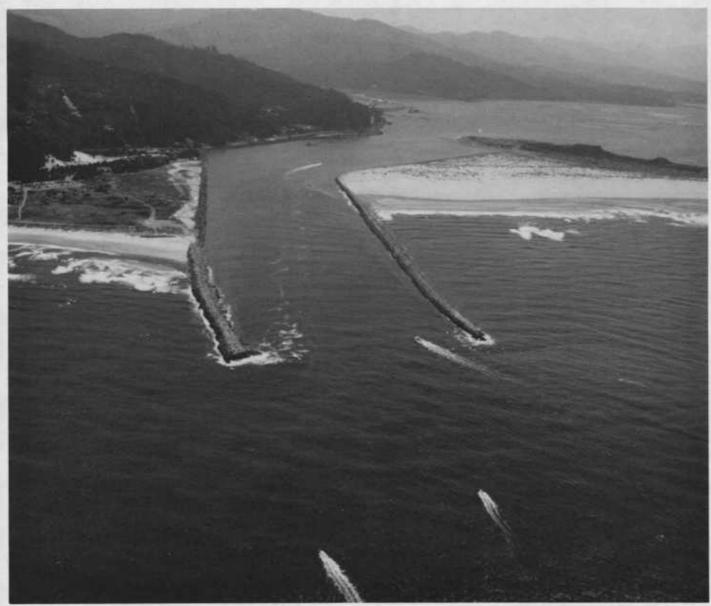


PHOTO COURTESY U.S. ARMY CORPS OF ENGINEERS, JULY 1984.

Danger Areas

- A. Bar area. The entire area between the beach and the 20-foot curve is bar area and breaks on the ebbing tide. The water runs out from 4 to 6 knots on the average and is very strong. Boats proceeding out should stop in the channel east of the seaward end of the breakwater and carefully evaluate the bar. If a decision is made to cross, proceed out but do not attempt to turn around if the bar is breaking.
- B. North jetty. About 100 yards of the outer end of the north jetty is submerged. This area and the portion of the channel just south of it are extremely dangerous. Buoy "1A" is

Tillamook Bay

stationed approximately 150 yards west of the tip of the north jetty to warn mariners to stay clear of the submerged section until it can be repaired. Buoy "1A" is seasonal from May to Oct. Avoid the sunken jetty and use caution in the channel south of it.

C. Middle grounds. Has 6 to 8 foot rolling swell on ebb and flood tides that will break. Shoaling makes this area unpredictable.

Channel

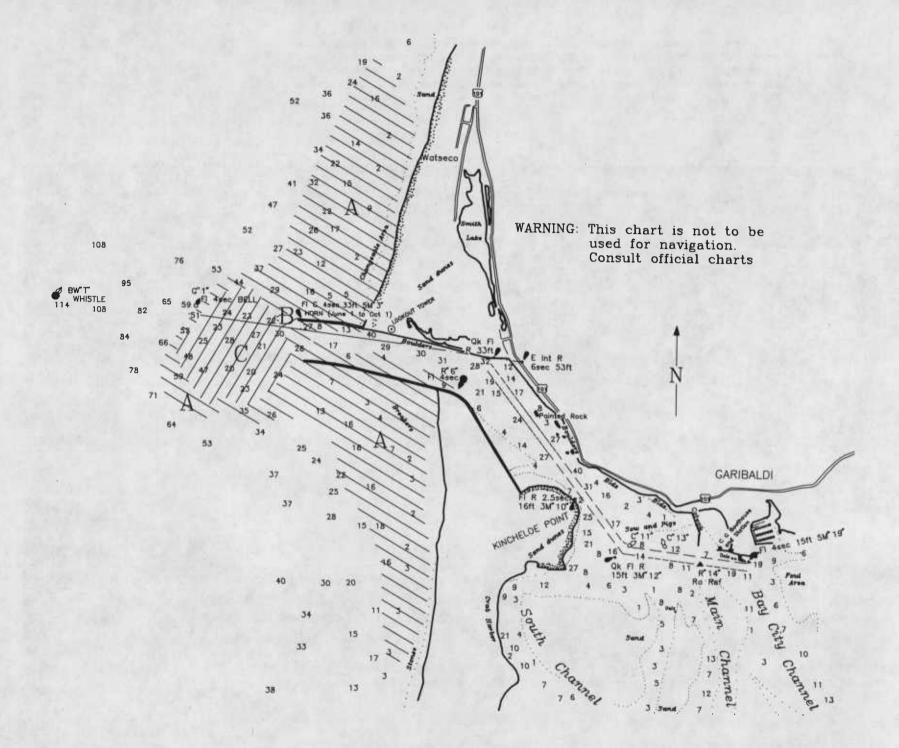
Tillamook Bay channel lies just south of the north jetty. Navigate with extreme caution. This channel changes constantly because of continual natural silting and scouring. Obtain up-to-date information on channel conditions from the Coast Guard or other authoritative local sources. Do not rely on the range markers without first inquiring whether they mark the present channel location.

Rough Bar Advisory Sign

Positioned on Coast Guard boathouse.

Bar Condition Reports

KTIL (1590 kHz): twice daily and when conditions change. Call Coast Guard (322-3531) for weather and bar conditions. Coast Guard will broadcast bar conditions on VHF channels 16 and 22.

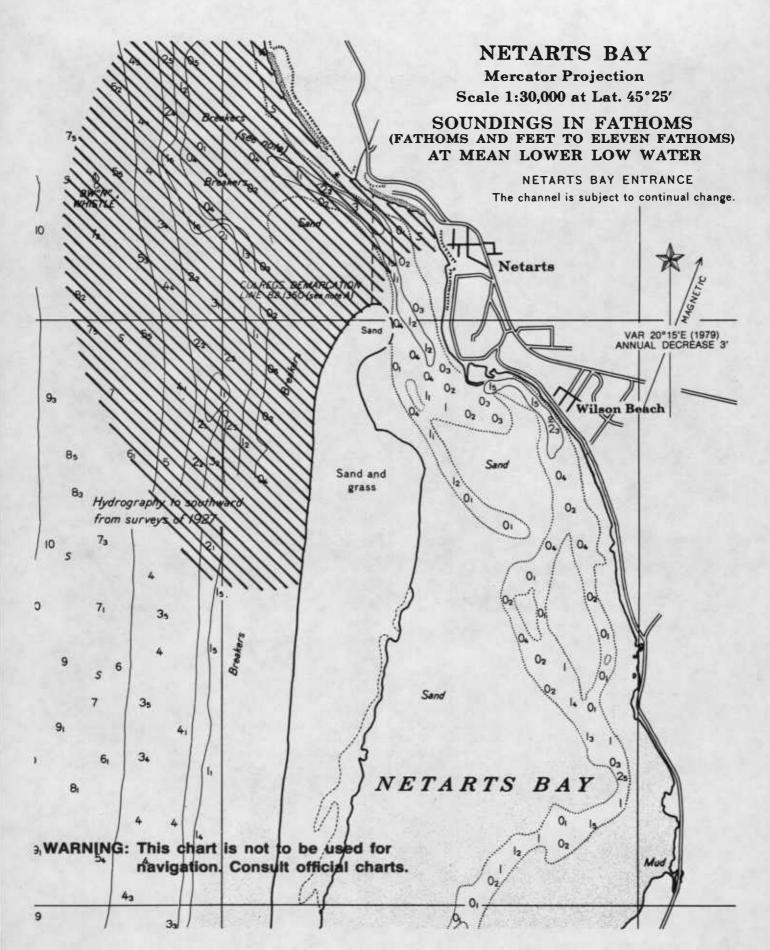




Netarts Bay

Netarts Bay is shallow with numerous sand bars that are exposed at low water. There are no jetties at this entrance. Very few boats cross the bar, and they cross only when the most favorable conditions exist.

There is considerable sport fishing and crabbing inside the bay. Boats fishing inside the bay should exercise caution on the ebb tide when near the bar, as the strong current can pull a small boat out over the bar and into the surf.

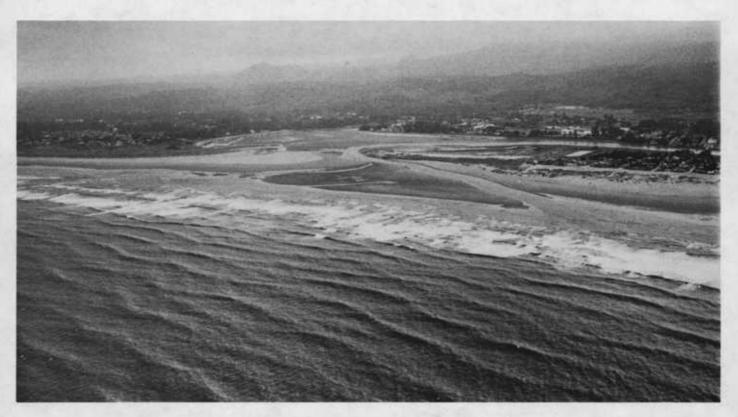




Cape Kiwanda

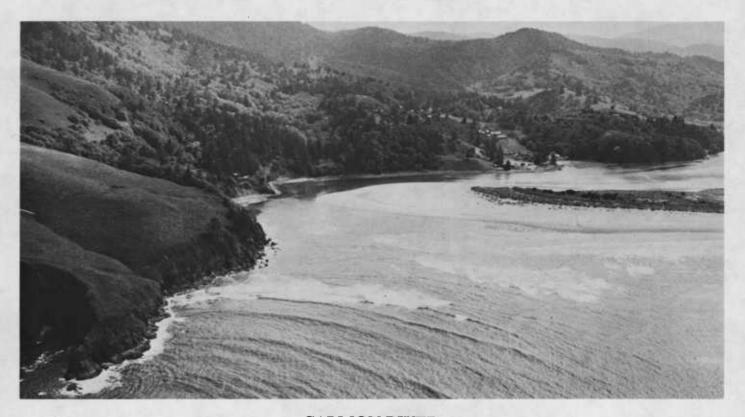
One of the great attractions at Cape Kiwanda is dory fishing, with the dories being launched and landed through the surf. Dory fishermen report that spectators can create a serious problem, as they crowd around on the beach to watch the dories land.

Spectators, for their own protection, are requested to allow the dories considerable amount of room for landing, as the surf moves the dories up on the beach, and it is at this point that dorymen have very little control over their craft.



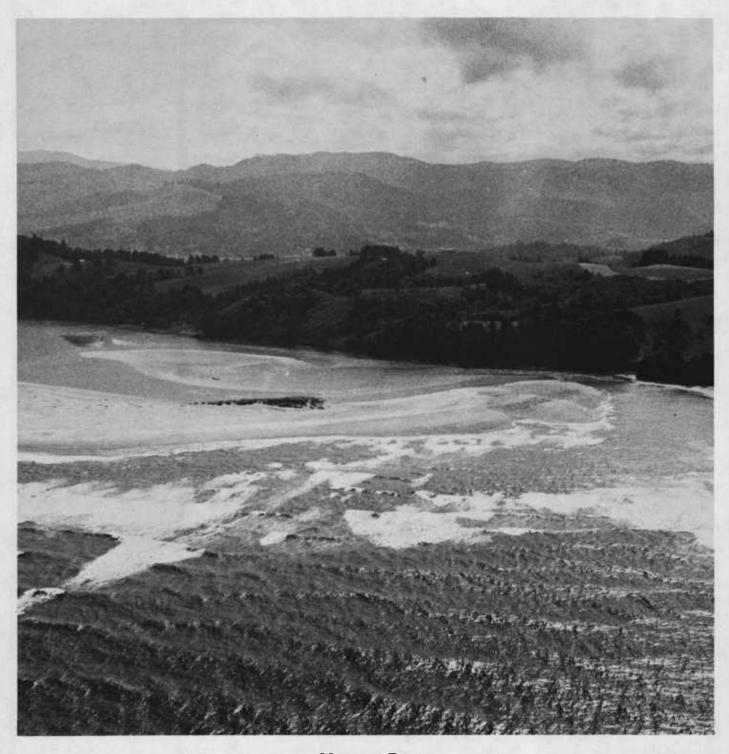
NECANICUM RIVER

Dangerous—not suitable for bar crossings.



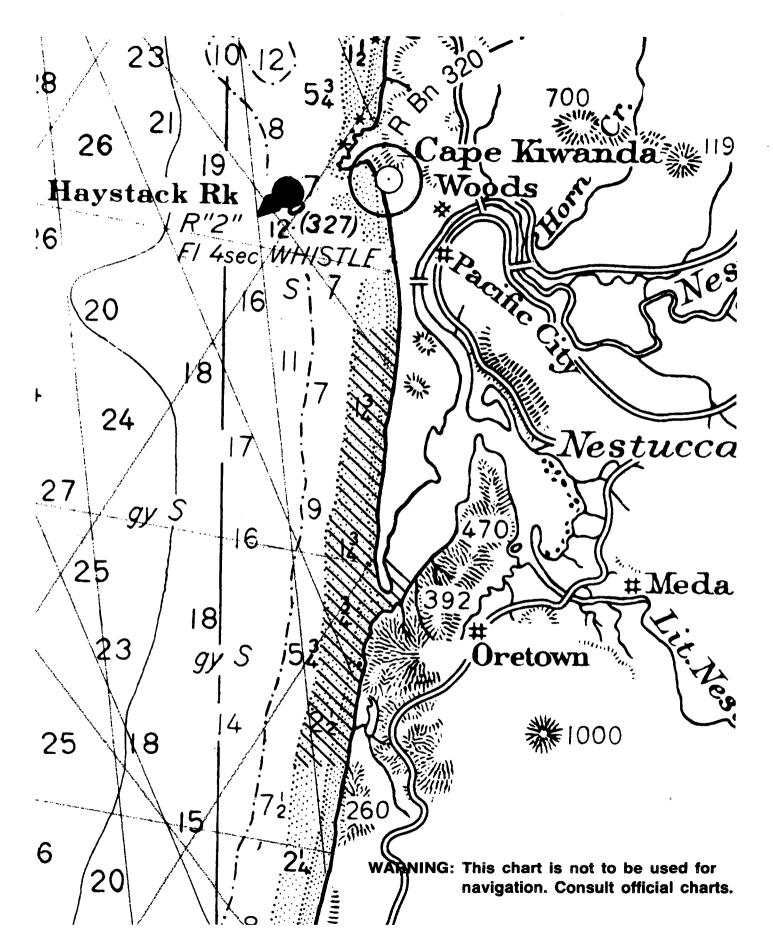
SALMON RIVER

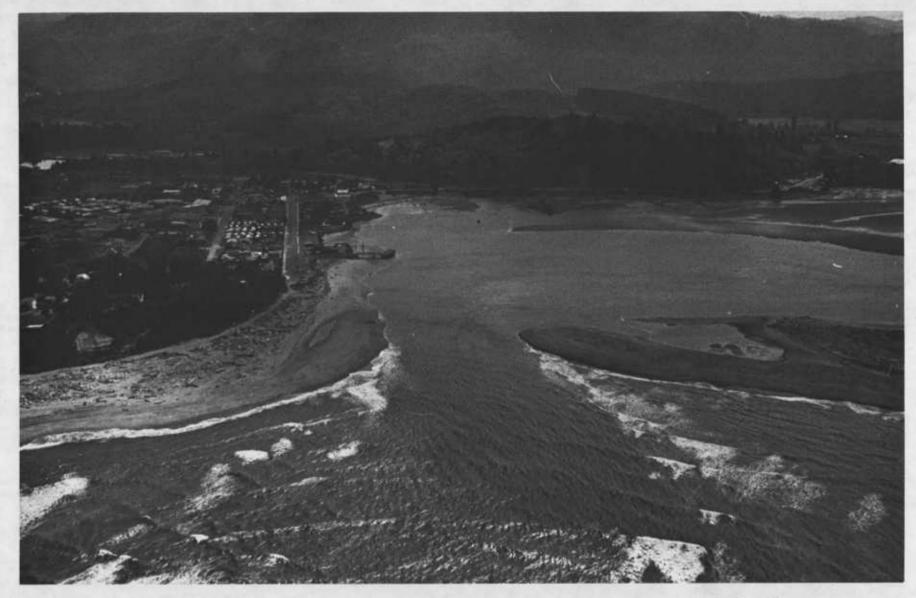
Dangerous—not suitable for bar crossings.



Nestucca Bay

Entrance to Nestucca Bay is used rather infrequently because of the continual shifting of sand bars and shoaling. To the north of the entrance is Cape Kiwanda, giving protection from northwesterly winds, which are predominant during the summer months.





Siletz Bay

Do not attempt to cross the bar at any time. The entrance is unimproved and not intended for navigation.

The majority of the boat traffic is concentrated on the river or in the bay channels at Siletz Bay. Since there are no jetties

at the bay's entrance, and because of the shallow channel, there is usually surf. On the strong ebb tide, the current reaches 5 to 7 knots at the entrance, which is force enough to pull an underpowered boat, or a vessel having engine failure, out over the bar into the ocean.

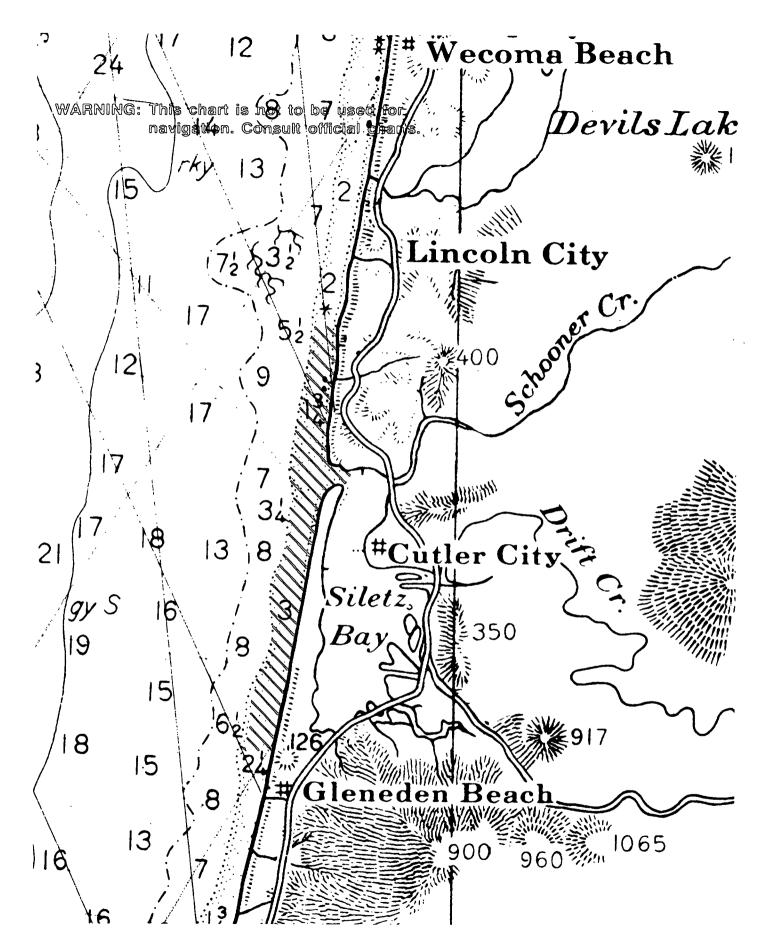




PHOTO COURTESY U.S. ARMY CORPS OF ENGINEERS, SUMMER 1986.

Depoe Bay

Danger Areas

- A. North Reef. Once a boat has cleared the entrance, any waters to the north are hazardous until the red bell buoy is reached. The seas break from the northwest and southwest at the same time, so this area must be avoided at all times.
- B. South Reef. Better known as Flat Rock, this area lies just south of the channel. Breakers are almost always present in this area. Boats coming from the south should never use this area as a short cut to the channel. This area should be avoided by boats at all times.
- C. Channel from red bell buoy in. The

passage into and out of Depoe Bay is unusually short and difficult. The Coast Guard recommends studying it before attempting to operate a boat in it. Because the North and South Reefs are so close to the channel, this area sometimes becomes very hazardous. During adverse conditions, breakers from the North Reef will cross the channel and run into the entrance. When this condition exists, it is better to stand by at the entrance buoy until the Coast Guard advises it is safe to enter, or is there to escort boats in. An important rule at Depoe Bay: Never fish between the entrance and the red bell buoy.

Entrance

The entrance should not be attempted at night or in rough weather without local knowledge. Boats over 50 feet should not enter the bay without checking with the harbormaster and the Coast Guard.

Rough Bar Warning Light

Positioned 25 feet above water, on building on north side of entrance channel, displaying two flashing yellow lights. When light is flashing, check with Depoe Bay Coast Guard on VHF channel 16 for bar crossing restrictions.

Bar Conditions Reports

Recorded weather and bar condition reports: 765-2122.

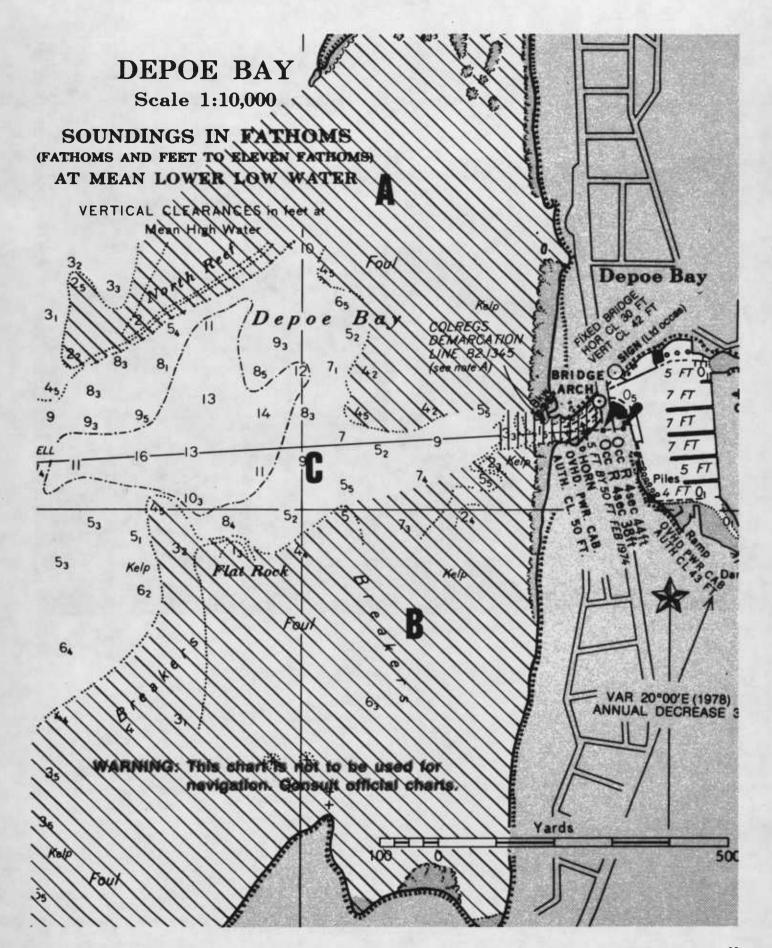




PHOTO COURTESY U.S. ARMY CORPS OF ENGINEERS, SUMMER 1986.

Danger Areas

- A. South jetty. There are submerged rocks along the length of the jetty; do not hug the jetty on either side. Boaters should remain in the channel entering and leaving the river so that if their engines should fail, they will have time to anchor before the current or wind sweeps them onto the rocks.
- B. North jetty. This jetty affords excellent protection from northerly winds. However, the same caution should be exercised in running close to it as with the south jetty. Be especially cautious of submerged rocks near the old tip of the north jetty. On an ebb tide stay well clear, up to the end of the north jetty, as

Yaquina Bay

there is danger of being swept into the breakers at the extreme end. Remain in the channel outbound until buoy #3 has been passed, at the south end of Yaquina Reef. This applies to entering the river as well as leaving.

- C. South Reef. This reef can be considered an extension of Yaquina Reef and is equally dangerous because of the same surf conditions that one encounters on Yaquina Reef. When going south, continue out the channel to the lighted bell buoy #1 before turning south.
- D. Yaquina Reef. This reef is always extremely dangerous, even when the winds are light and few breakers are seen. A large swell coming from

seaward can cause a tremendous breaker on this reef with little or no warning, even when the sea is otherwise calm. Never fish close to the reef, and do not turn north between the end of the north jetty and buoy #3.

Rough Bar Advisory Sign

Positioned on shore, west end of Coast Guard pier.

Bar Condition Reports

KNPT (1310 kHz): summer, three times daily and at Coast Guard request; winter, twice daily and at Coast Guard request. Recorded weather and bar conditions reports: 265-5511. When the Coast Guard restricts the bar, the restriction applies to the area from the bridge west to the whistler buoy.

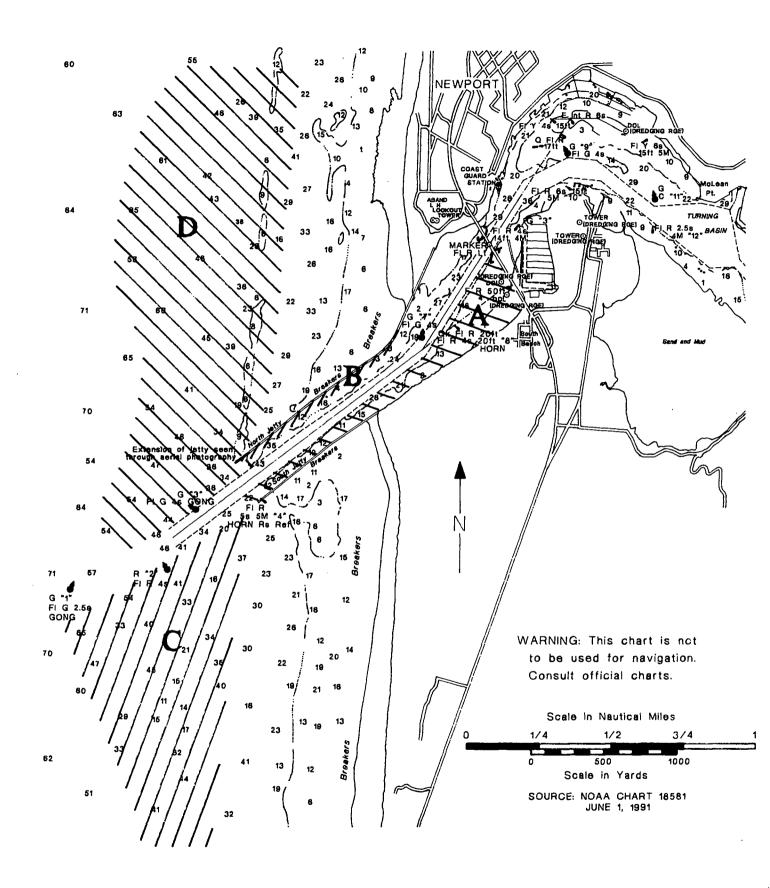




PHOTO COURTESY U.S. ARMY CORPS OF ENGINEERS, SUMMER 1986.

Alsea Bay

There are no jetties at Alsea Bay. With the bar shifting frequently, the entrance is not stable.

Fishing or crabbing near the mouth of the bay can be dangerous if the boat motor fails on an ebb tide. Boaters should have an anchor ready when operating near the entrance.

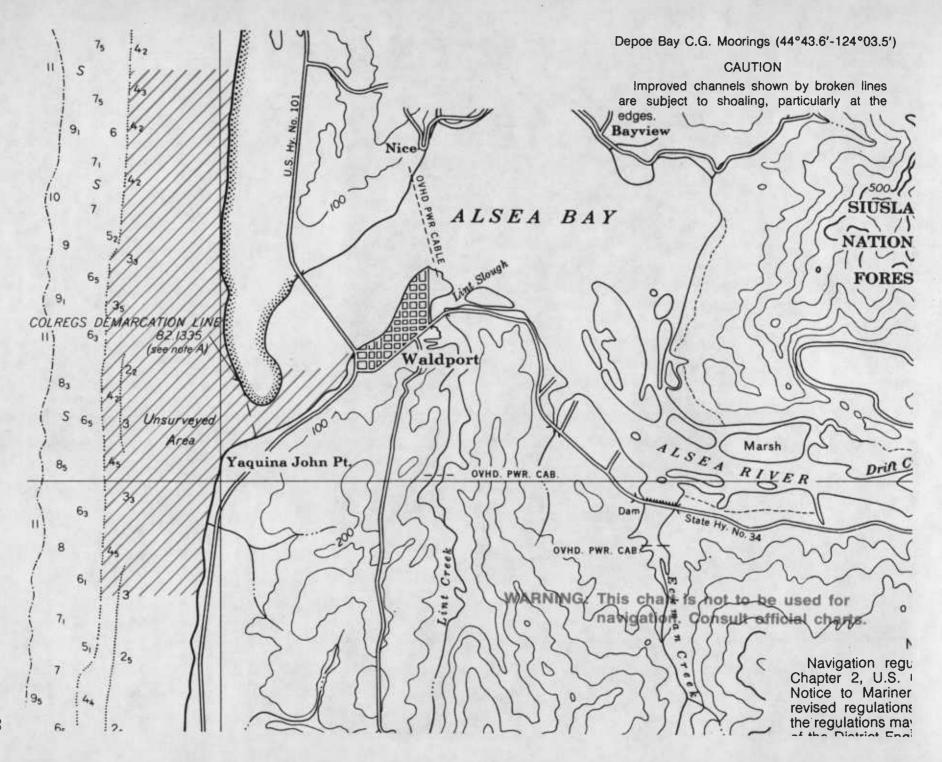




PHOTO COURTESY U.S. ARMY CORPS OF ENGINEERS, SUMMER 1986.

Danger Areas

- A. Shoal water, northeast side of channel, has a depth of 21/2 to 3 feet of water at high tide.
- B. Shoal water, south side of channel, extends from Can Buoy #7, well inside the bar, almost out to Lighted Gong Buoy #1. Breakers in this area are common, even with a small swell running.
- C. Outer end of south jetty. Breakers are almost always present in this area. When the seas are from the southwest or west, breakers may extend out past Lighted Gong Buoy #1.
- D. Outer end of north jetty. Breakers are almost always present in this area. When the seas are from the west, the breakers may extend all the way out to Lighted Gong Buoy #1.

Siuslaw River Channel

Siuslaw River channel lies along the northern half of the river entrance. Water depth ranges from 6 to 20 feet. When swells are running from the northwest, boaters should stay in the channel. When the swells run from the west or southwest, stay closer to the south jetty until clear of rough water.

When conditions are questionable, contact the Coast Guard station for advice on VHF channels 16 or 22A, or CB channel 9. Once inside the bar, head for the channel. Ranges mark the preferred depth channel, but depending on conditions they do not mark the best route to follow.

Bar

The Suislaw River bar has a very narrow channel extending out past the jetties. Unlike larger bars on the Oregon coast,

the Siuslaw River bar may be rendered impassable for small boats by a moderate swell, particularly at ebb tide. Boaters should use extreme caution when operating near this bar. Due to shoaling and jetty extensions, bar conditions are unpredictable.

Bridge

Clearance beneath the Siuslaw River bridge is low. Use caution when crossing under the bridge on the flood tide, to avoid damaging superstructure such as antennas and troll poles.

Rough Bar Advisory Sign

Positioned on Coast Guard tower, facing 150° True.

Weather and Bar Condition Reports

Call Coast Guard station (997-8303) for recorded weather and bar conditions.

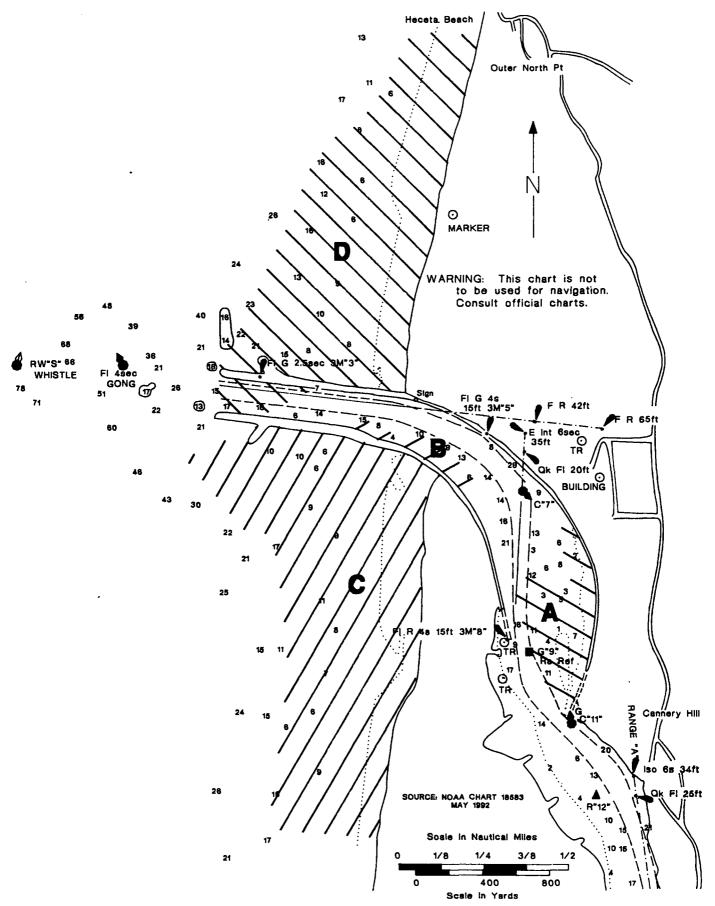




PHOTO COURTESY U.S. ARMY CORPS OF ENGINEERS, 1984.

Danger Areas

A. Middle Ground and North Spit. The North Spit is to the right when proceeding down the Umpqua River, starting from the first rock spar jetty and long pier on the east side of the channel. The North Spit has small breakers when a swell is running, and gets rougher as one proceeds along the north jetty. The North Spit is very dangerous because large breakers may come into this area from the Middle Ground. The North Spit meets the Middle Ground at the outer end of the training jetty. The Middle Ground area extends from the north jetty to the green bell buoy. This area is dangerous because a little swell can create large breakers which may capsize a vessel.

Umpqua River

Boaters should not linger near the mouth of the river during ebb tide, for if their power fails, their boats could be carried out to sea before an anchor would be effective or oars could be put to work.

- B. North and south jetty. The area north of the north and south of the south jetty can be very dangerous. Whenever breakers are observed, boaters should avoid this area.
- C. Training jetty. On the ebb tide, the current will pull boats into jetty. Refraction waves are often encountered in this area, creating extreme choppy conditions.
- D. Buoy 6A, old Coast Guard docks. Current on ebb or flood will often set boats into this area.

Range Markers

The range marker consists of red rectangular shape with a black vertical stripe mounted on a skeleton tower. By steering a course that keeps the two range markers in line, boaters will remain within the channel. In hazardous conditions, boaters should stay close to the training jetty rather than on the range line until well clear of the surf zone.

Rough Bar Advisory Sign

Positioned on shore.

Bar Condition Reports

KDUN (1470) kHz): summer, daily on the daylight hours. Recorded weather and bar condition reports are available by calling 271-4244.

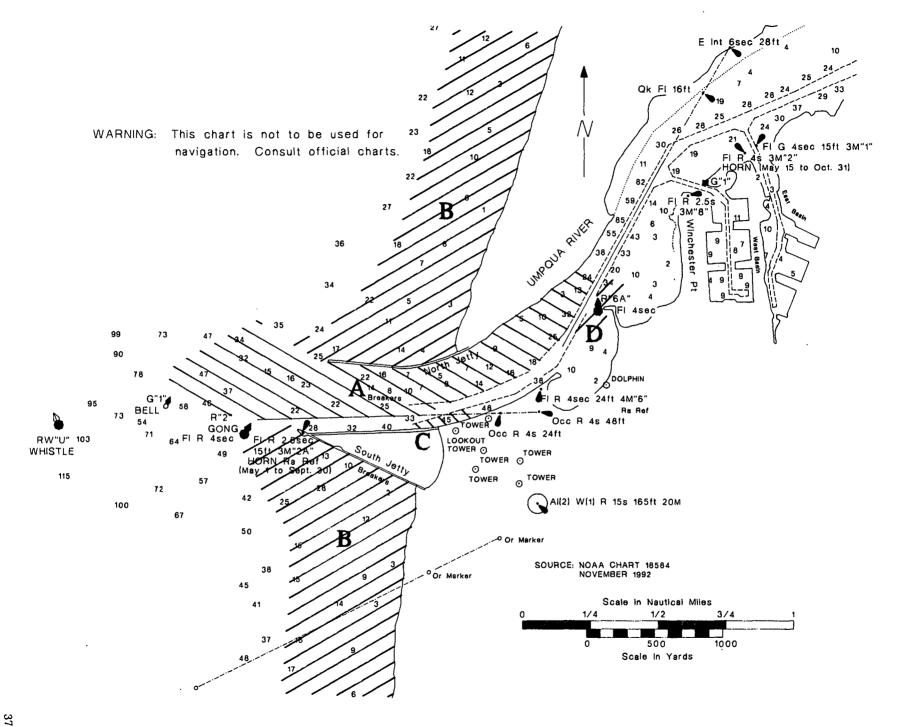




PHOTO COURTESY U.S. ARMY CORPS OF ENGINEERS, SUMMER 1986.

Coos Bay

Danger Areas

- A. Sand Spit, South Slough. As you leave the Charleston Boat Basin, the South Slough Sand Spit is on your left. It extends north, parallel to the channel from South Slough buoy #4, approximately 450 yards toward South Slough light #2. Presently, nun buoy #2T marks the north end of the sand spit. Do not cross this area.
- B. Submerged jetty. Proceeding out from the Charleston Boat Basin in the South Slough Channel, when you are directly between South Slough light #4 and can buoy #5, directly ahead will be South Slough light #1, which marks the end of the submerged jetty. This jetty is visible only at low water. When departing the Charleston Boat Basin, stay to the left of light #1 at all times.
- C. Sand Spit, North Beach. This area is dangerous because of shoal waters and submerged jetties. Occasionally, on a strong ebb, there will be breakers in this area. Avoid this area because of the possibility of going aground or striking submerged jetties and pilings. Note,

- too, that inbound and outbound tugs with tows, freighters, etc., pass close aboard this area and cannot stop for obstructions in the channel including small vessels.
- D. South jetty, Guano Rock Area. This is a very dangerous area because of shoals that extend out from the south jetty to the entrance channel. Breaks are frequently experienced from Guano Rock Lighted Whistle Buoy #4 extending out to a little past the end of the south jetty. Exercise care in this area at all times, especially on ebb tides.
- E. North jetty, submerged. The north jetty was extended approximately 200 yards to the west. The outward end of the jetty is submerged from the visible end of the jetty out toward buoy #3. Never cross this area. There are breakers in this area most of the time. When departing the bar northbound, be sure to pass buoy #3 before turning to the north.

F. Area north of Buoy #5. This area can be very dangerous when there are any large swells on the bar or during ebb tide. Freak breakers are common in this area. Many boats do transit this area on occasion, but there is a strong recommendation that you never cross it.

Rough Bar Advisory Sign

Positioned 8 feet above the water on jetty just north of the Charleston Boat Basin. This is a two-part sign, facing (1) toward the Charleston Boat Basin and (2) toward South Slough light #2.

Bar Condition Reports

The Charleston Coast Guard Station records weather and bar conditions; you can obtain this information by phoning 888-3102 or 888-3267. KBBR (1340 kHz) broadcasts reports once each hour during summer months. The Charleston Coast Guard Station also posts current weather advisories. Weather and wind warning flags are displayed at the Charleston Port office during daylight hours.

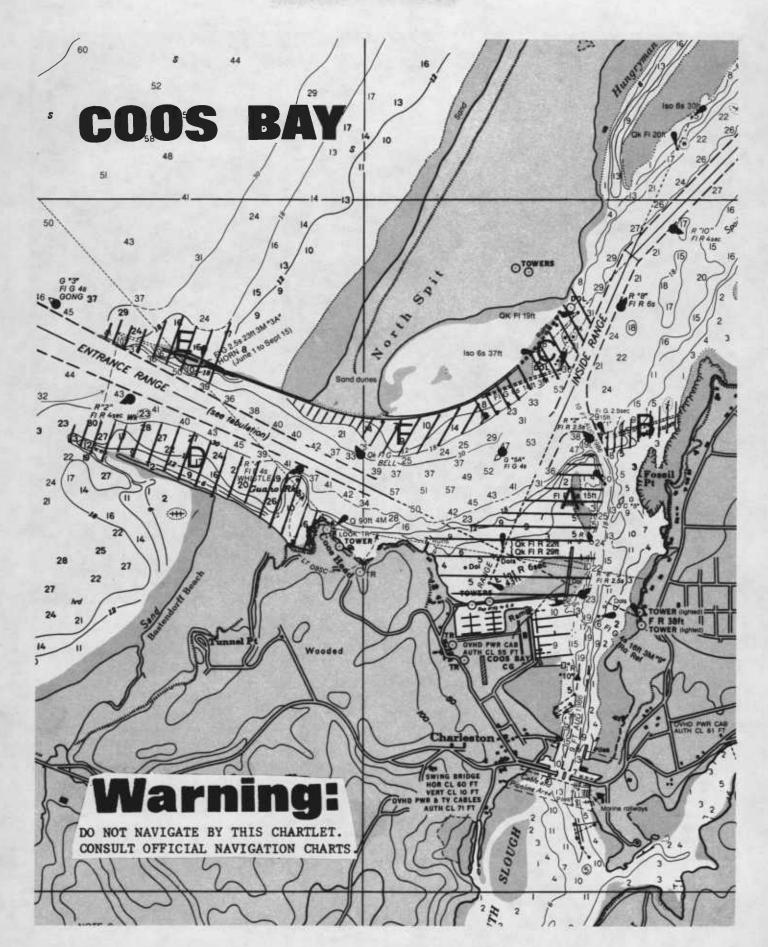




PHOTO COURTESY U.S. ARMY CORPS OF ENGINEERS, SUMMER 1986.

Danger Areas

- A. South jetty. It is always dangerous to get too close to the end of a jetty. An unexpected breaker could carry a small boat onto the end of the jetty with great force. The inside of the south jetty is a dangerous area, and boaters should remain clear. The prevailing northwest wind could set a powerless boat onto the jetty.
- B. North jetty. Stay clear of the end of this jetty, as the sea breaks almost continuously in this area. A shallow area with partially submerged rocks extends

Coquille River

from the abandoned lighthouse to the end of the jetty. The large swells that occur in this sea could put a boat onto these rocks.

C. South side of Coquille River entrance. The area to the south of the entrance can be very dangerous. There are several rocks just below the surface that cannot be seen except during heavy seas. There is a prevailing northwest wind during the summer months; also, the sea currents run to the south. These two conditions may cause a powerless boat in this area to drift onto these rocks.

Range Markers

Front and rear range markers are identical: a rectangular red daymark with a white stripe on a skeleton tower. By steering a course that keeps the two range markers in line, you will remain within the channel. See the latest CG-162, Light List.

Rough Bar Advisory Sign

Positioned on wharf on south jetty, just north of the Coast Guard Station, summer only.

Bar Condition Reports

Call the Coos Bay Coast Guard Station (888-3266).

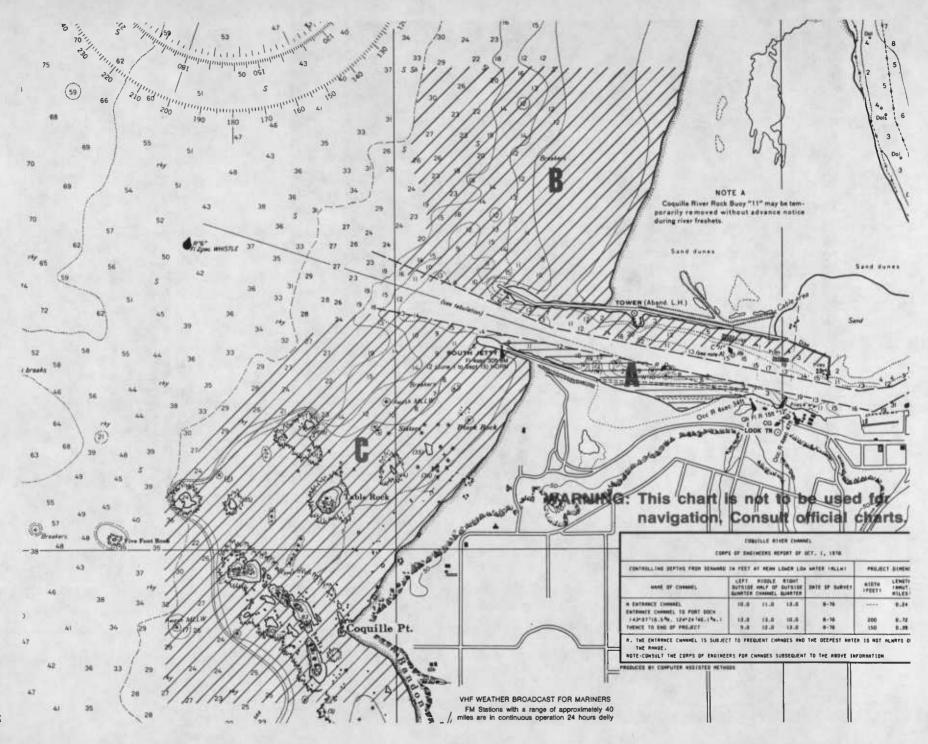




PHOTO COURTESY U.S. ARMY CORPS OF ENGINEERS, SUMMER 1986.

Port Orford

There is no bar at Port Orford: departure from and entrance to the harbor are direct with the ocean. The harbor is protected from the northwest winds that prevail during the summer months, but is exposed to southerly winds, which can cause unfavorable harbor conditions.

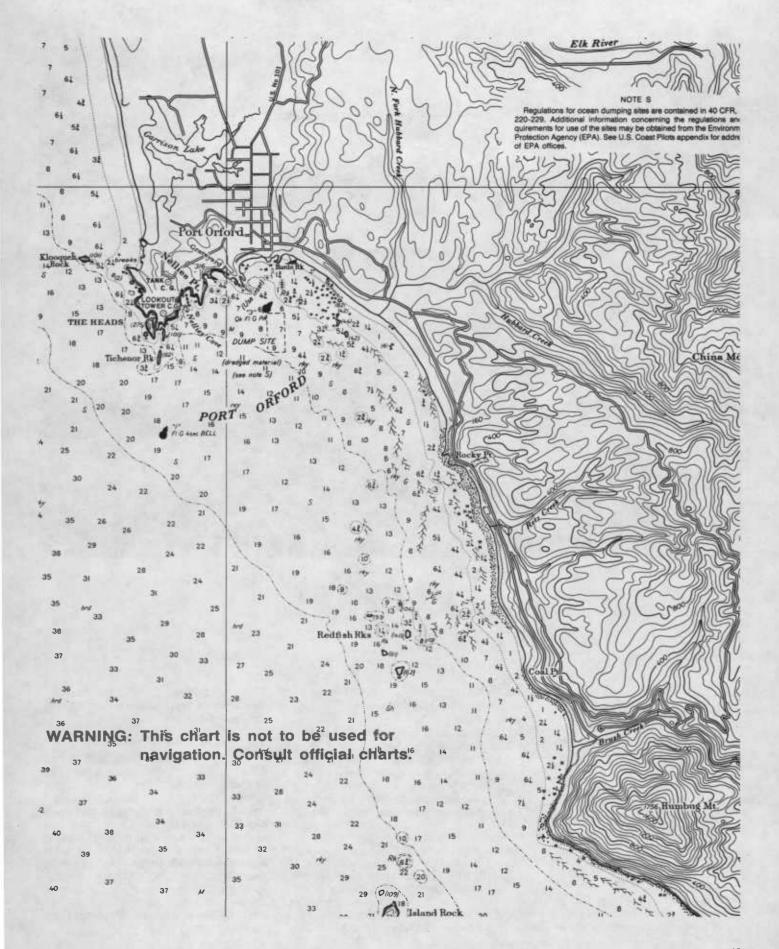




PHOTO COURTESY U.S. ARMY CORPS OF ENGINEERS, SUMMER 1986.

Rogue River

Danger Areas

- A. Shoal water, south side. Along the south side of the Rogue River channel are shoal water and gravel bars. This shoal water breaks to a height of 6 feet when a swell is running. Many boaters fishing inside the river, trolling between the jetties, find themselves set into this dangerous area by northwest winds. If a vessel breaks down in the channel and is not anchored, the northwest wind and ebb tide will set it into this dangerous area in a matter of a few minutes.
- B. Outer end, north jetty. Breakers are almost always present in this area because of shoal water. When the sea is

running from the west or southwest, it is particularly dangerous.

C. Outer end, south jetty. Breakers are almost always present in this area. Even when it appears to be calm, there may be occasional breakers, 1,000 feet outside the south jetty. When the sea is running from the west or southwest, this area is very dangerous.

Channel

Rogue River channel lies along the north jetty. Under existing conditions a channel 13 feet deep and 300 feet wide, extending from the ocean to the inner end of the north jetty, is provided. Boaters are urged to use and stay within this channel.

The river entrance is subject to frequent shoaling and depth changes. Do not rely on charted depths.

Fishing Inside the Channel

During recent years small boats, which do not usually go out into the ocean, fish just inside the bar and troll in an area between the north and south jetties. Frequently there are a great number of boats in this area, and these boats tend to crowd each other. Because trolling is the method of fishing most frequently used, lines are sometimes accidentally caught in boat propellers. Should this happen, the disabled boat should immediately anchor or call for aid. A northwest wind or ebb tide could set a boat into a dangerous area in a matter of minutes.

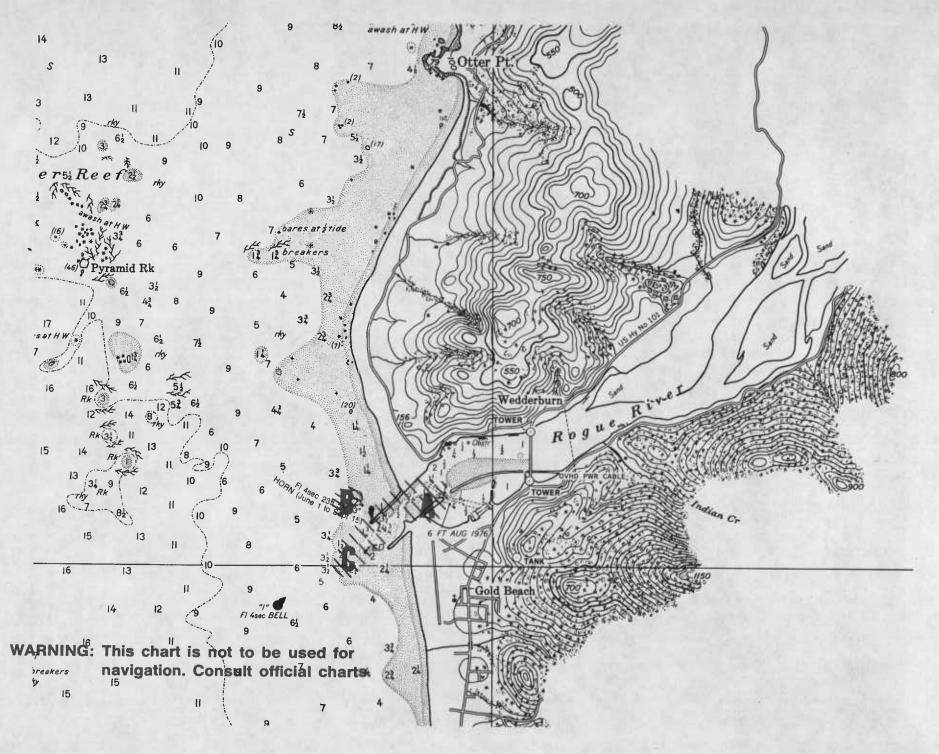




PHOTO COURTESY U.S. ARMY CORPS OF ENGINEERS, SUMMER 1986.

Chetco River

Danger Areas

- A. West jetty rock area. This area is dangerous because of many rocks and shoaling. At high tide the rocks are covered by water, and the area appears to be navigable but is extremely dangerous. This area is to be avoided at all times.
- **B.** Jetty and shoal areas. These areas are extememly dangerous at all times

because of submerged rocks and breakers. Two rocks in this area may be seen at low tide. Avoid this area at all times.

Range Markers

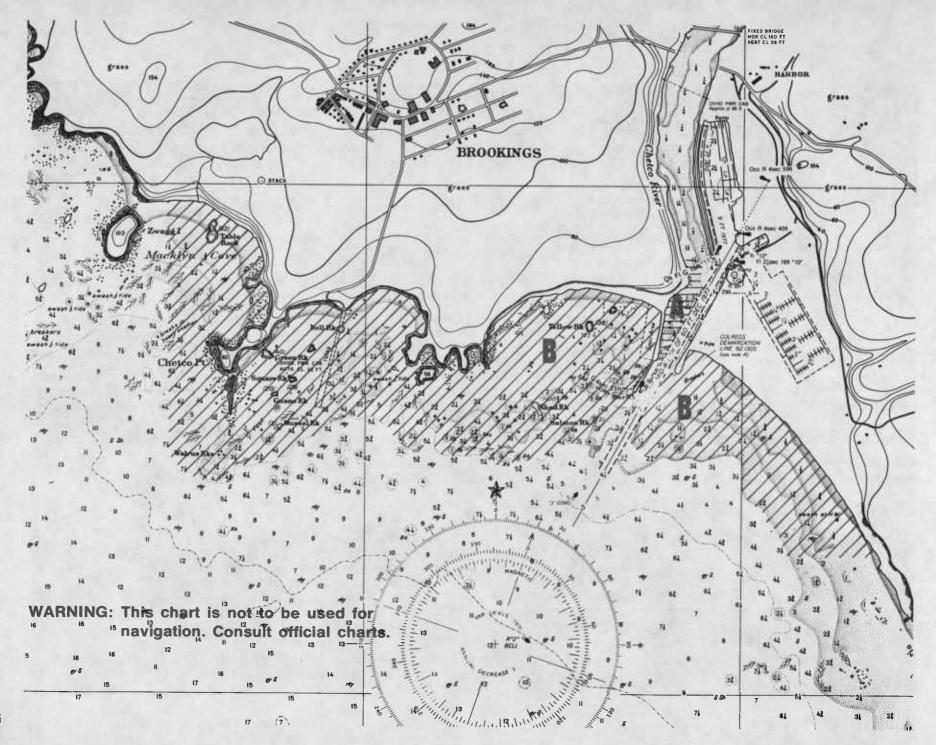
The range marker consists of a red rectangular shape with a black vertical stripe mounted on a skeleton tower. By steering a course that keeps the two range markers in line, you will remain within the channel.

Rough Bar Advisory Sign

Position on Coast Guard fuel dock; faces NNW.

Bar Condition Reports

KURY (910 kHz): summer, every day-light hour.





WINCHUCK RIVER

Dangerous—not suitable for bar crossings.

Boaters: COASTAL ROCKS ARE WILDLIFE REFUGES

Oregon's coast abounds with seabirds and marine mammals. In fact, over 1.1 million seabirds of thirteen species...more than Washington and California combined...breed on Oregon's coastal rocks and islands. The threatened Steller sea lion and three other marine mammal species call these coastal rocks home. Many others migrate along the Oregon coast. Nearly all rocks along the Oregon coast are within the National Wildlife Refuge system. Many provide crucial habitat. All are important to wildlife.

Boats Can InterfereWith Marine Wildlife

Boats around refuge rocks can disturb wildlife almost any time of the year. Animals are especially wary April through September, the all important nesting and rearing season.

Seabirds often nest in dense colonies on the surface of the rock or in crevices. When frightened by a boat's close approach, noise or speed, birds flee the nest in panic; eggs or chicks are knocked over the side or left exposed to predatory gulls and crows. Stampeding sea lion adults can trample and kill small pups.

Even anchored quietly near the base of a rock during certain critical times, your boat may discourage adults from returning with food or inhibit young birds from leaving the rock and heading to sea to be on their own.

Your boat can cause seemingly minor disturbances. But when combined with many others, small disruptions can add up to discourage nesting or breeding for the year. Birds or mammals may abandon the rock altogether.

Please...Follow These Guidelines Around Coastal Rocks

- Stay back! As a general rule, approach no more than 500 feet. If seals or sea lions are present, stay back 1000 feet. You won't know you are too close until it's too late and animals flee!
- Approach and depart cautiously. This minimizes noise and movement. This gives both you and the animals time to adjust.
- Avoid sudden movement and loud noises when operating near birds or mammals. Remember, these are wild animals.
- Conditions change! Don't assume that a safe distance one day will be the same the next, even at the same site. Be cautious every time out.
- Observe! Once you feel you have anchored a safe distance away, take a few moments to watch the birds and mammals through your binoculars. If they bob and weave their heads, make alarm sounds or move off the rocks, pick up and move back.
- Be Aware! State and federal laws prohibit harassing marine mammals, seabirds and threatened or endangered species. These guidelines will aid you when navigating around coastal rocks.

Remember, you and your boat are visitors. Please be a courteous guest.

For information on Coastal National Wildlife Refuges, call the US Fish and Wildlife Service at 1-(503) 867-4550





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