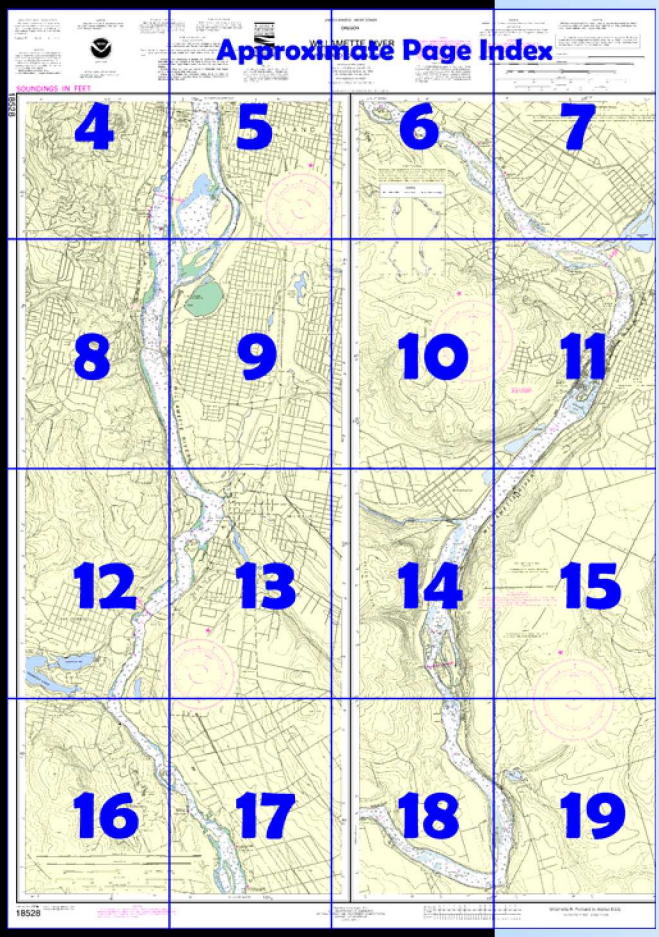
BookletChart™

Willamette River – Portland to Walnut Eddy

(NOAA Chart 18528)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ☑ *Complete, reduced scale nautical chart*
- ☑ *Print at home for free*
- ☑ *Convenient size*
- ☑ *Up to date with all Notices to Mariners*
- ☑ *United States Coast Pilot excerpts*
- ☑ *Compiled by NOAA, the nation's chartmaker.*

Home Edition (not for sale)

Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
301-713-2770

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

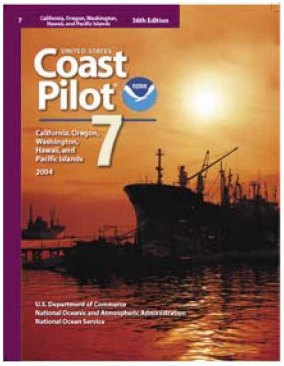
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 7, Chapter 10 excerpts]

(224) **Portland,** on Willamette River about 9 (10.4) miles from its mouth, is the principal city of the Columbia River system and one of the major ports on the Pacific coast. The port has over 25 deep-draft piers and wharves on both sides of the Willamette River between its junction with the Columbia and Ross Island. In addition there are extensive facilities for small vessels and barges S of Hawthorne Bridge and at North Portland Harbor, S of Hayden Island. It has extensive commerce, both foreign and domestic, and is the port of call for many lines of coastwise, intercoastal, and transpacific steamships. Principal foreign exports are grain, tallow, fish and shellfish, fruits, textile products and apparel, paper, wood pulp, lumber and other forest products, chemicals, fertilizer, and metal ores. The principal imports are fish and shellfish, metal ores, salt, fruit and vegetables, pulp, lumber and other forest products, chemicals, iron and steel, automobiles, and machinery. The coastwise trade consists mainly of petroleum products, lumber, chemicals, iron and steel, and cement.

(225) The **Port of Portland,** created by the State in 1891, is controlled by a Port Commission and administered by an executive director. The port owns four marine terminals, Port of Portland Ship Repair Yard, and dredges the channel between Broadway and Ross Island Bridges; it also assists the Corps of Engineers with other dredging in the Willamette and Columbia Rivers. The port also operates an international airport and three general aviation airports. A 30-inch hydraulic pipeline dredge is owned by the port. In addition to dredging the port waterfront and river channel, the port conducts hydrographic surveys periodically along all port-owned piers and wharves.

(299) A launching ramp is at **Milwaukie**, 16.2 (18.6) miles above the mouth. Minor engine and hull repairs can be made on light-draft boats. Dry winter boat storage is available.

(300) A fixed railroad bridge, 17.4 (20) miles above the mouth, has a clearance of 74 feet.

(301) The Crown Zellerbach Co. wharf, on the W bank of the river 0.3 (0.3) miles above the railroad bridge, is about 840 feet long with reported depths of 30 feet or more alongside; each end of the offshore wharf is marked by a privately maintained light. A loading tower and conveyor system on the wharf loads wood chips on barges.

(302) The channel passes E of **Hog (Rocky) Island,** 1.6 (1.8) miles above the railroad bridge. **Copeleys Rock,** 150 yards E of the S end of the island, is covered 10 feet and should be avoided.

(303) **Oregon City,** on the E bank 22.6 (26) miles above the mouth, is connected with **West Linn** by two fixed highway bridges; one, about 0.2 (0.2) mile below the Willamette Falls canal locks, has a vertical clearance of 74 feet. The second, 0.6 (0.7) miles below the N end of the locks, has a clearance of 76 feet.

(304) A marina, on the E bank just above the lower highway bridge, has about 350 berths, electricity, gasoline, water, ice, provisions, wet winter storage, a launching ramp, and marine supplies. Engine repairs can be made.

(306) **Willamette Falls Canal,** on the W bank 22.8 (26.2) miles above the mouth, has four locks with a total lift of 50 feet; usable lock dimensions are 175 feet long, 37 feet wide, and 5 feet deep over the miter sills at low water. A bascule highway bridge across the canal has a vertical clearance of 27 feet closed. The least clearance of the power cables and pipeline that cross the canal is 67 feet.

(308) A marina, on the E bank opposite **Willamette** and 24.3 (27.9) miles above the mouth, has about 50 berths, with electricity, gasoline, diesel fuel, and water available. This marina has an elevator lift that can handle craft to 5 tons or 30 feet for hull and engine repairs.

(309) From the entrance to **Tualatin River,** 24.8 (28.5) miles above the mouth, for over 4 miles, Willamette River is shallow and winding; buoys and unlighted ranges mark the channel.

(310) Small craft can tie up at **Shanks Landing,** 28.8 (33.1) miles above the mouth.

(311) **Walnut Eddy** is on the E bank 29.4 (33.8) miles above the mouth.

Table of Selected Chart Notes

Corrected through NM Jul. 05/08
Corrected through LNM Jun. 24/08

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

NOTE B

CAUTION

Turbulent water in this area is hazardous to navigation.

NOTE C

Rock Island Channel Buoys 1 through 15 seasonal from May 15 to October 15.

For Symbols and Abbreviations see Chart No. 1

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
⊙(Accurate location) o(Approximate location)

CAUTION

BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

Mercator Projection
Scale 1:15,000 at Lat 45° 23'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone comm nication is impossible (33 CFR 153).

CAUTION

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area *Cable Area*

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered wells may be marked by lighted or unlighted buoys.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Portland, OR	KIG-98	162.55 MHz
Salem, OR	WXL-96	162.475 MHz
Astoria, OR	WGN-697	162.525 MHz

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, Washington, or at the Office of the District Engineer, Corps of Engineers in Portland, Oregon.

Refer to charted regulation section numbers.

PLANE COORDINATE GRID

(based on NAD 1927)

Oregon State Grid north zone is indicated by dashed ticks at 4,000 foot intervals. The last three digits are omitted.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.571" southward and 4.344" westward to agree with this chart.

TIDES

The diurnal range of the tide at Portland 45°31'N/ 122° 40'W) during lowest river stages is 2.4 feet. The range becomes progressively smaller with higher stages of the river.

Jul 2008

HEIGHTS

Heights in feet. Contour elevations referred to Mean Sea Level.

Additional information can be obtained at nauticalcharts.noaa.gov.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, http://NauticalCharts.gov, help@NauticalCharts.gov, or OceanGrafix at 1-877-56CHART, http://OceanGrafix.com, or help@OceanGrafix.com.

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THE NATION'S CHARTMAKER SINCE 1807

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

POLLUTION REPORTS

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(based on NAD 1927)

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TIDES

The diurnal range of the tide at Portland 45°31'N/ 122° 40'W) during lowest river stages is 2.4 feet. The range becomes progressively smaller with higher stages of the river.
Jul 2008

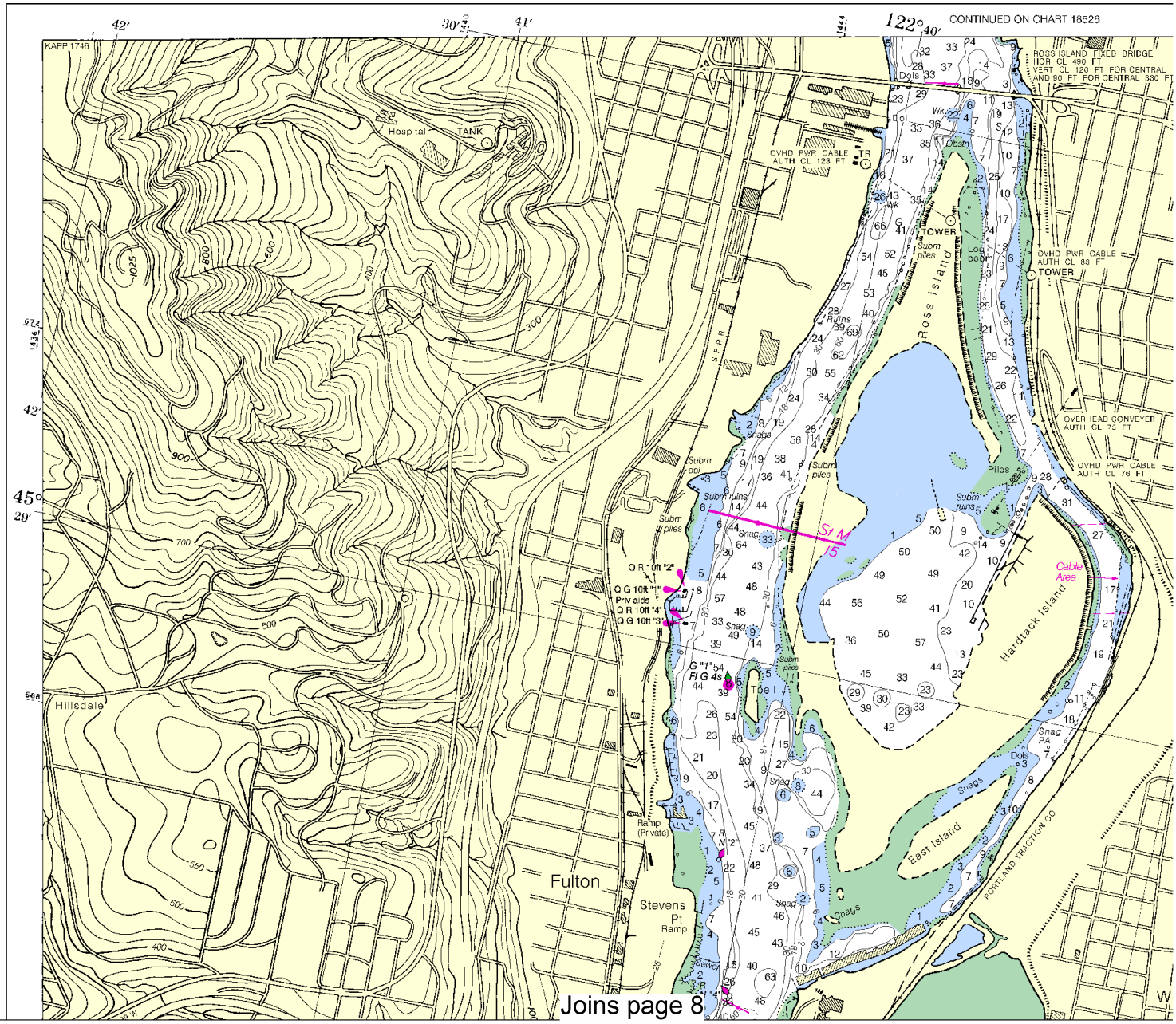
Soundings and Clearances of Bridges and Overhead Cables in the Willamette River from Portland to the locks at Oregon City are referred to Columbia River Datum (Mean Lower Low Water During Lowest River Stages).

Soundings above the locks are referred to Willamette River Datum which is 50 feet above Mean Sea Level.

Clearances of Bridges and Overhead Cables above the locks are referred to the Corp of Engineers datum for Newberg Pool which is 52 feet above Mean Sea Level.

SOUNDINGS IN FEET

18528



Printed at reduced scale. ~~SCALE 1:15,000~~ See Note on page 5.

Nautical Miles

0 1

Yards

500 0 500 1000 1500

CAUTION

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Covered wells may be marked by lighted or unlighted buoys.

UNITED STATES - WEST COAST

OREGON

WILLAMETTE RIVER

PORTLAND TO WALNUT EDDY

Mercator Projection
Scale 1:15,000 at Lat 45° 23'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET

For Symbols and Abbreviations see Chart No. 1

Additional information can be obtained at nauticalcharts.noaa.gov.

Formerly C&GS 6171, 1st Combined Ed., May 1955 G-1948-721

CAUTION

BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not availab e for the entire charted horizontal clearance.

NOTE A

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Refer to charted regulation section numbers.

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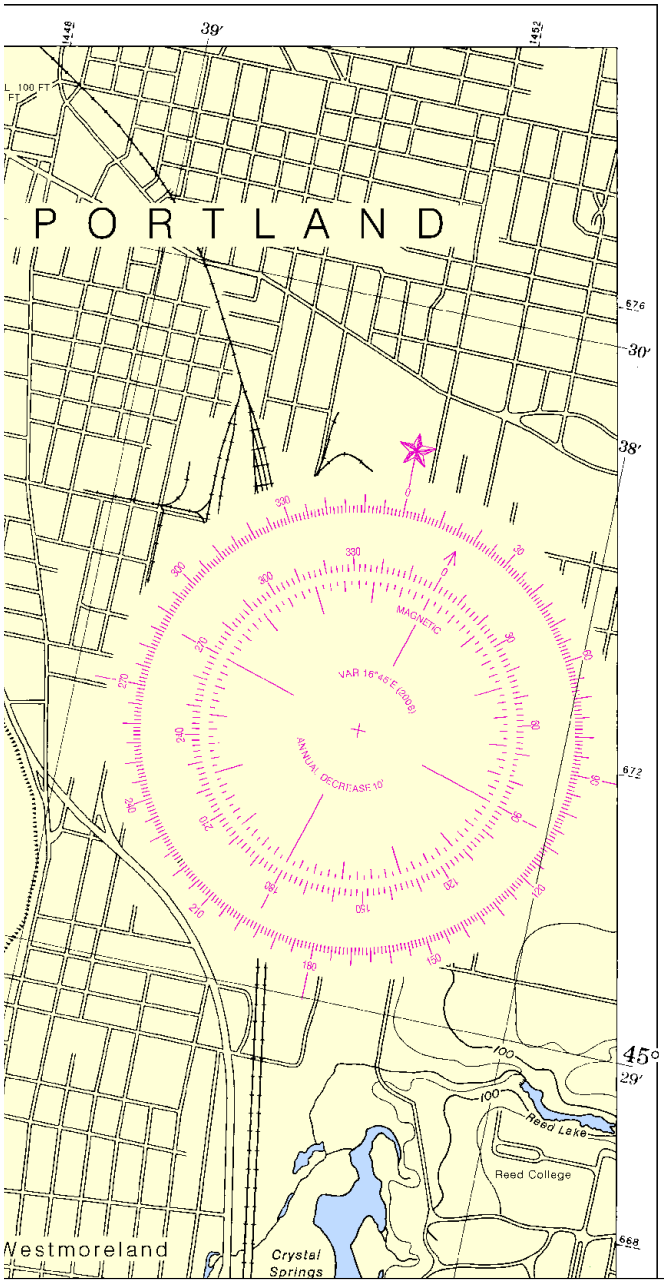

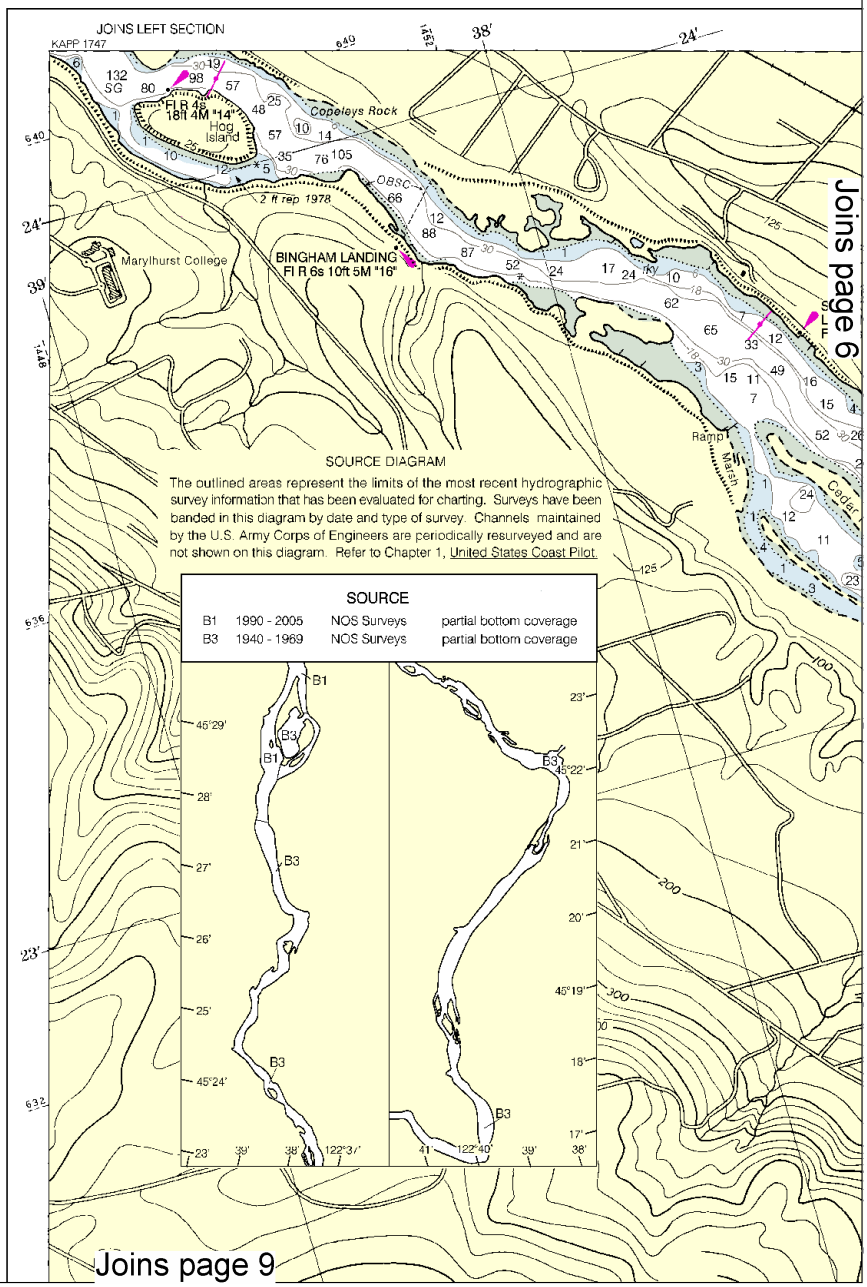

This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:20000. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

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UNITED STATES - WEST COAST

OREGON

WILLAMETTE RIVER

PORTLAND TO WALNUT EDDY

Mercator Projection
Scale 1:15,000 at Lat 45° 23'
North American Datum of 1983
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SOUNDINGS IN FEET

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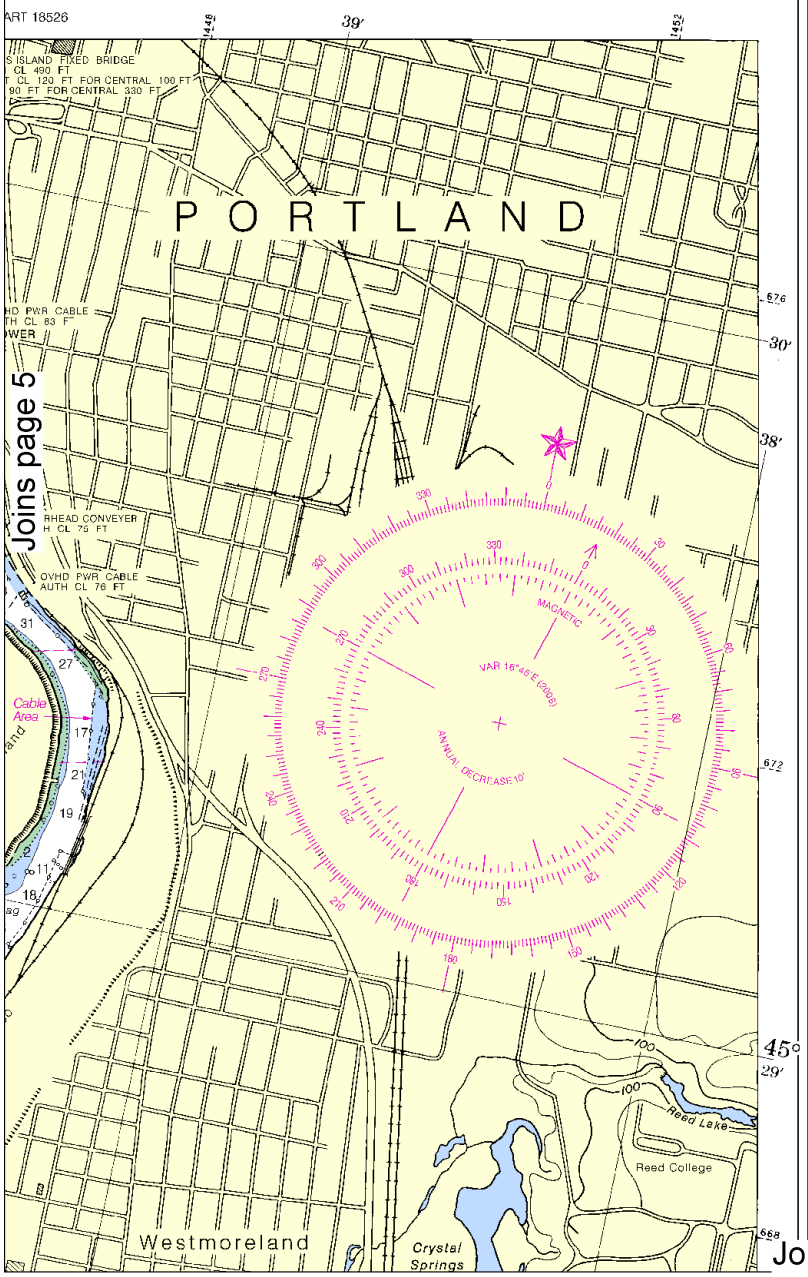
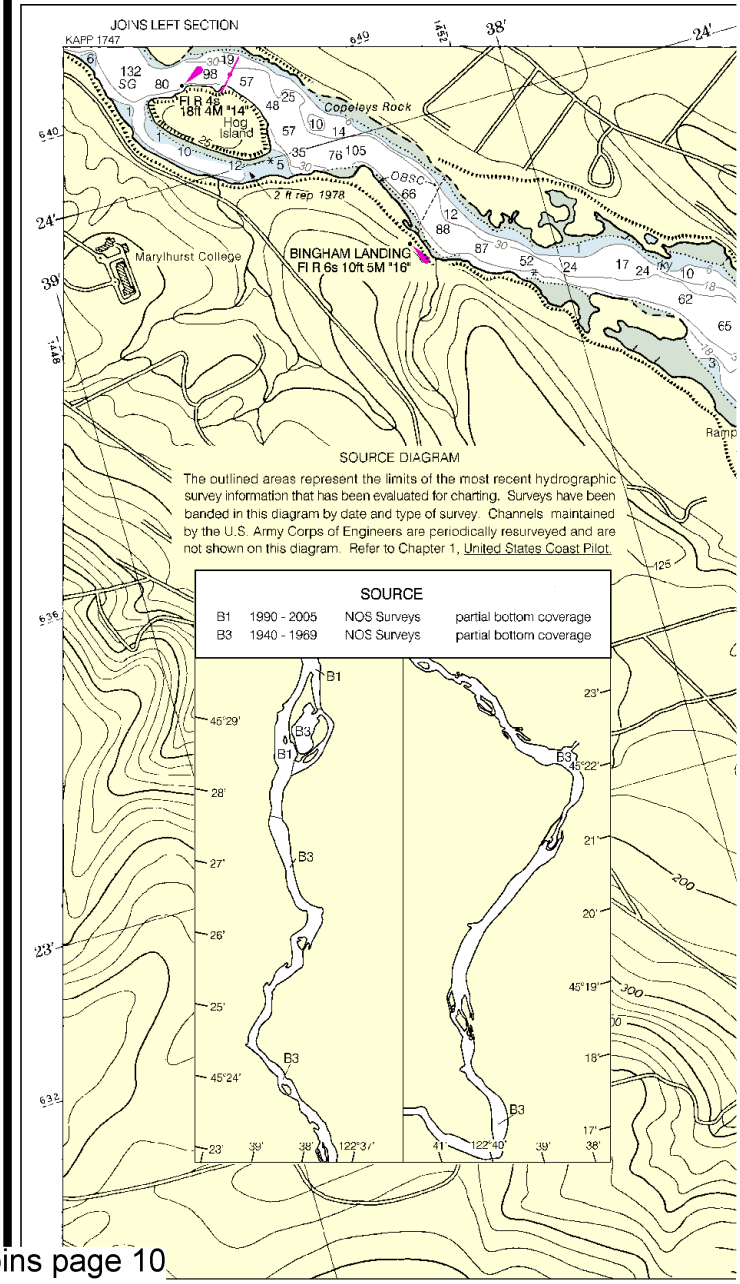




Printed at reduced scale. ~~SCALE 1:15,000~~ See Note on page 5.

Nautical Miles
0 1

Yards
500 0 500 1000 1500

HEIGHTS

Heights in feet. Contour elevations referred to Mean Sea Level.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

CAUTION

Mariners are cautioned that a large number of logs and deadheads are adrift in the navigable waters of Oregon and Washington at all times, particularly after storms, spring freshets, and unusually high tides.

Th s nautical chart has been designed to promote safe nav gation. The National Ocean Service encourages users to submit corrections, additions or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

Nautical Miles

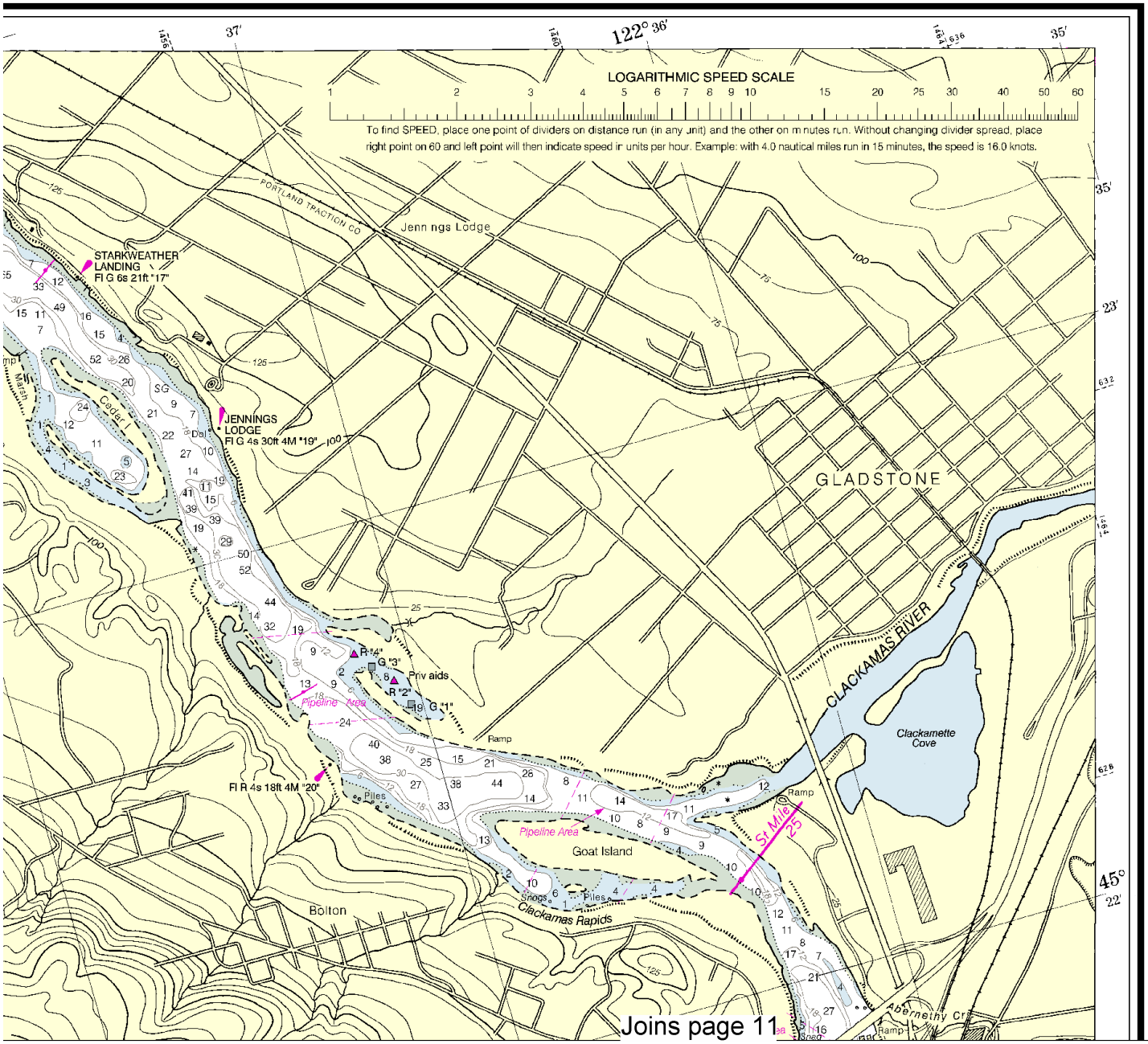
Statute Miles

Yards

LATITUDE

LONGITUDE

18528



This BookletChart has been updated with: Coast Guard Local Notice To Mariners: 0710 2/16/2010,
NGA Weekly Notice to Mariners: 0910 2/27/2010,
Canadian Coast Guard Notice to Mariners: n/a .

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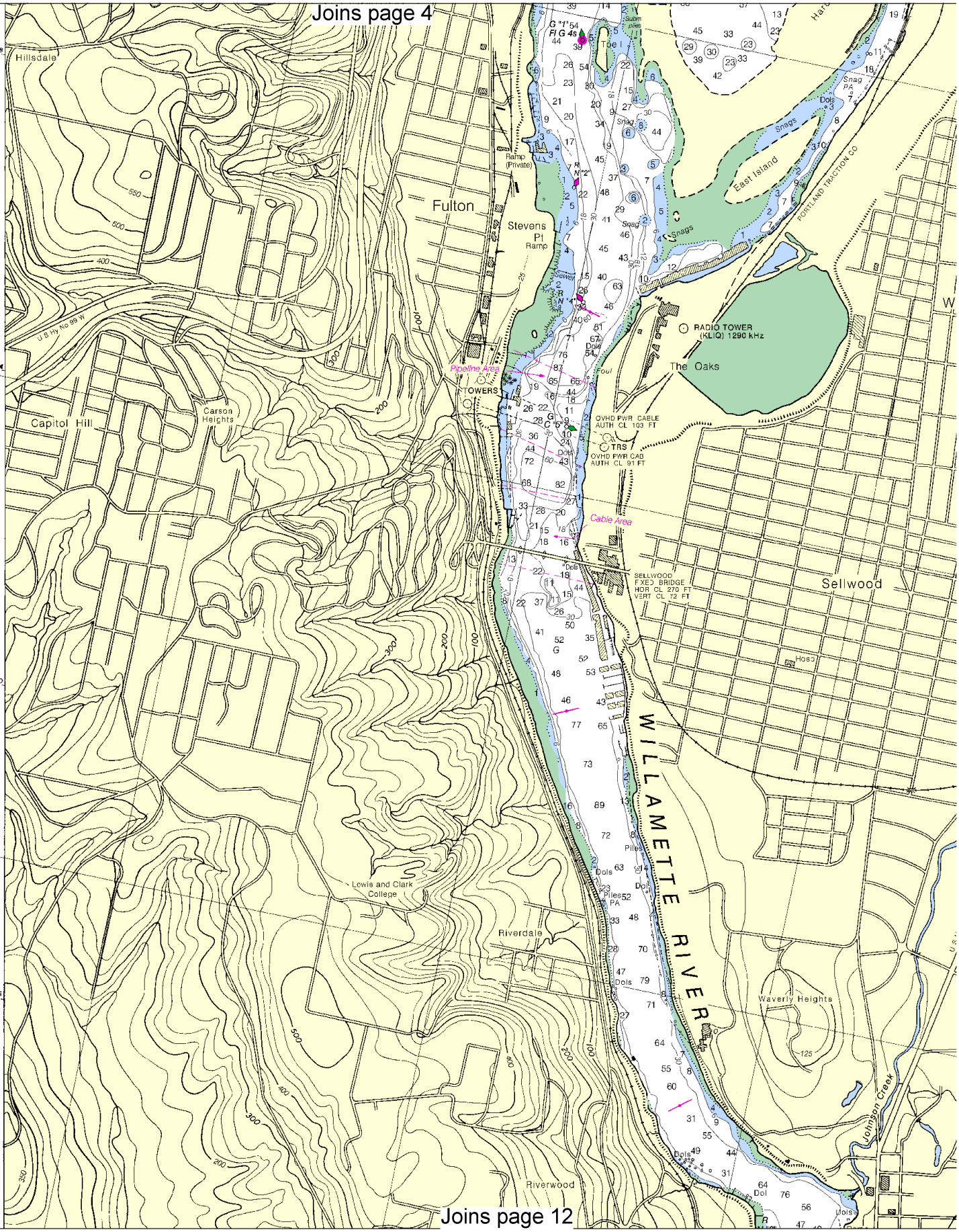

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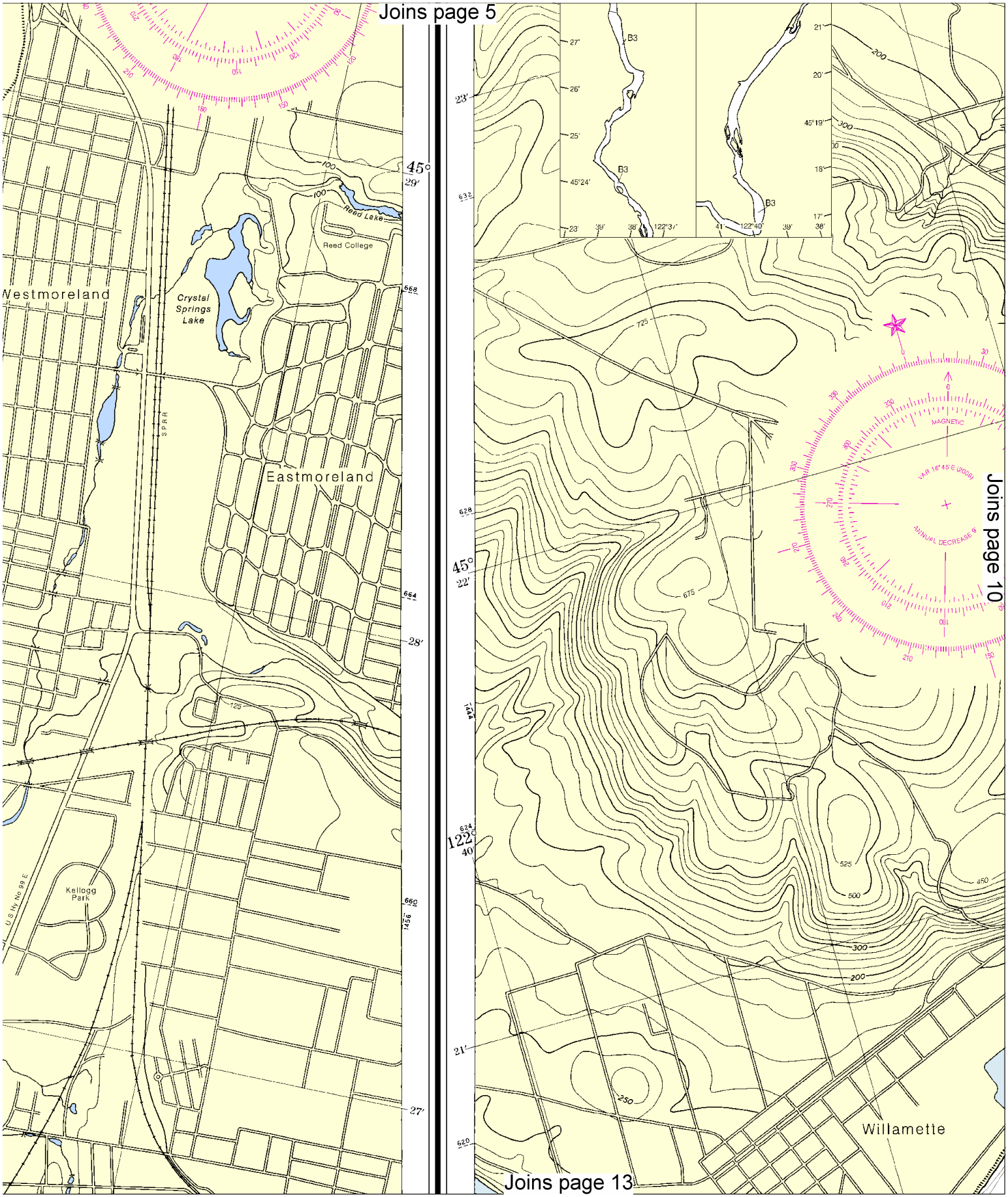
Printed at reduced scale. ~~SCALE 1:15,000~~ See Note on page 5.

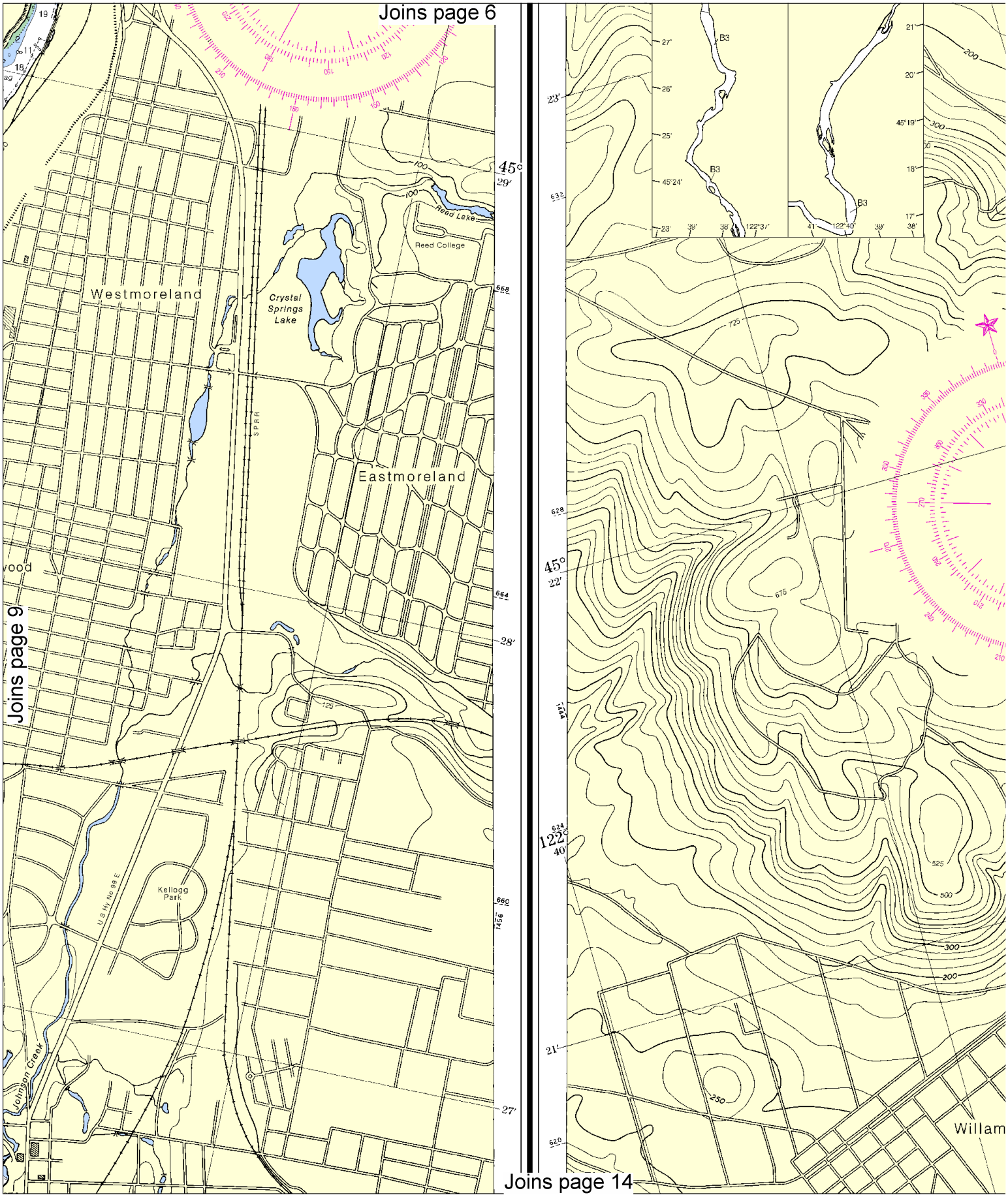
Nautical Miles

0 1

Yards

500 0 500 1000 1500


Joins page 5
Joins page 10
Joins page 13
Westmoreland
Eastmoreland
Crystal Springs Lake
Reed Lake
Reed College
Kellogg Park
Willamette
MAGNETIC
VAR 16°45'E (2009)
ANNUAL DECREASE 9'
45°
29'
28'
27'
45°
22'
122°
40'
21'
23'
B3
B3
B3
45°24'
122°37'
122°40'
45°19'



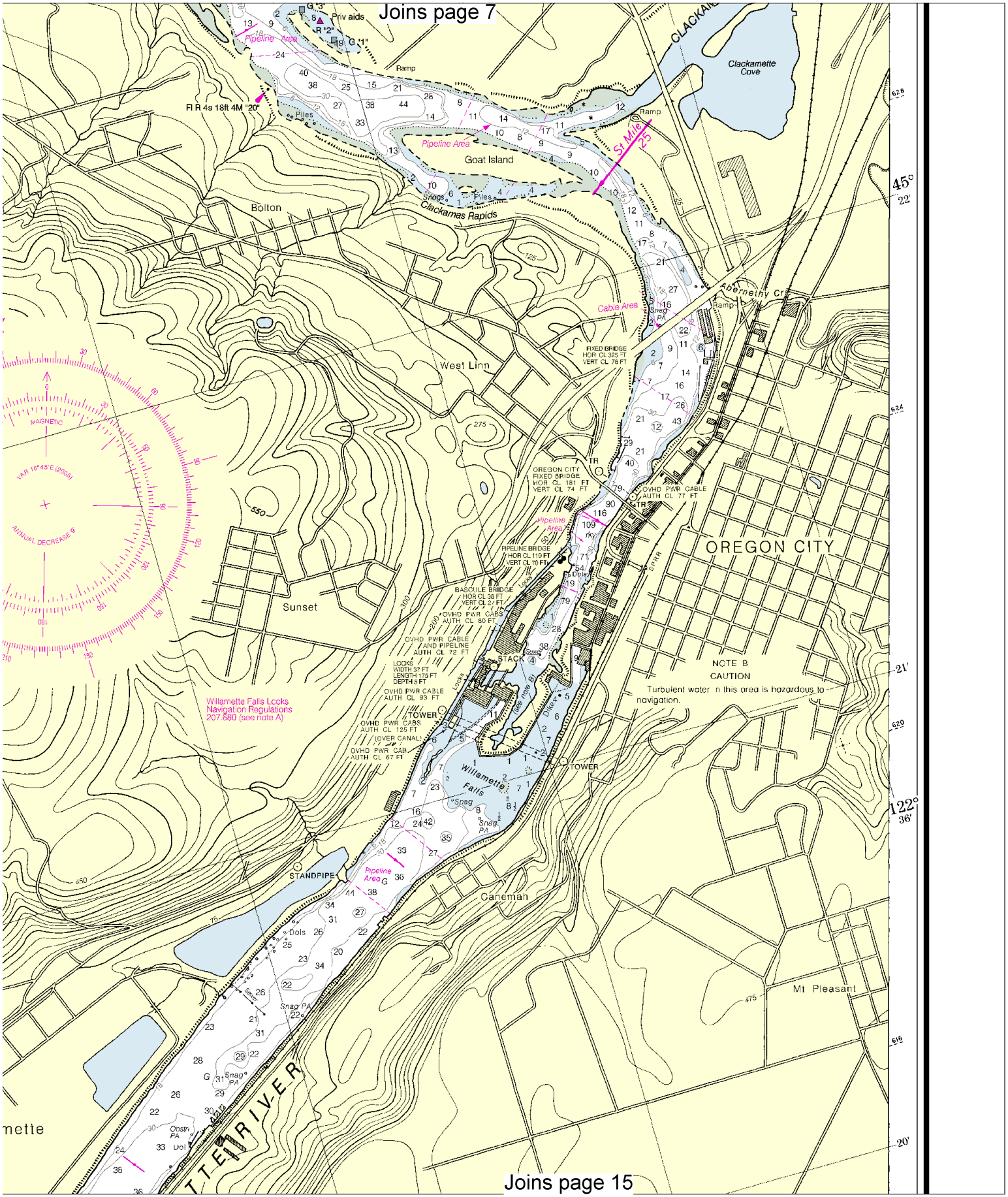
Printed at reduced scale. ~~SCALE 1:15,000~~ See Note on page 5.

Nautical Miles

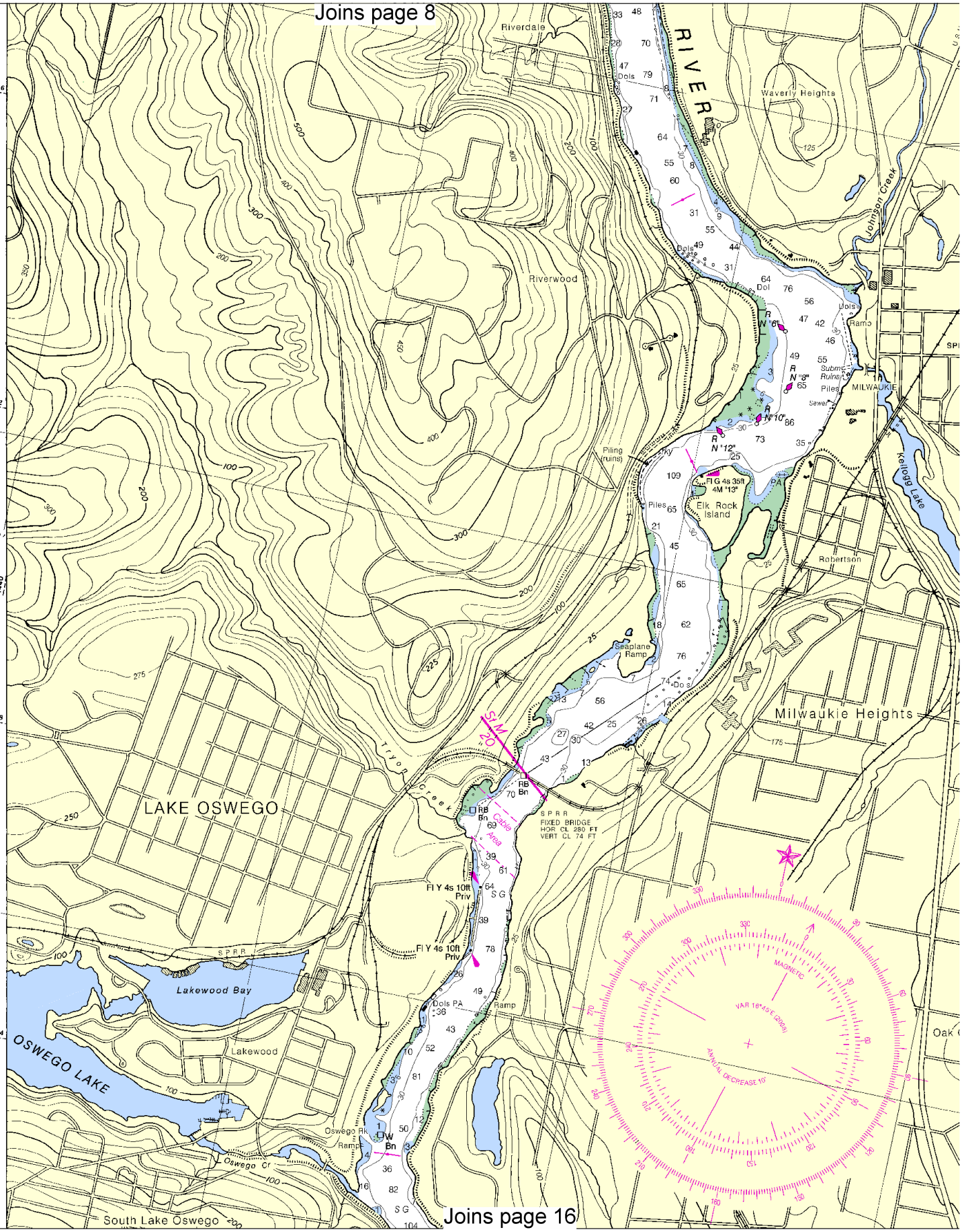
0 1

Yards

500 0 500 1000 1500


Joins page 7
Priv aids
Pipeline Area
Ramp
Fl R 4s 18ft 4M "20"
Piles
Clackamette Cove
Goat Island
St Mile 25
Snags
Clackamas Rapids
Bolton
Abernethy Cr
Cable Area
FIXED BRIDGE
HOR CL 325 FT
VERT CL 76 FT
West Linn
MAGNETIC
VAR 16°45'E (2006)
ANNUAL DECREASE 9'
OREGON CITY
FIXED BRIDGE
HOR CL 181 FT
VERT CL 74 FT
OVHD PWR CABLE
AUTH CL 77 FT
OREGON CITY
PIPELINE BRIDGE
HOR CL 119 FT
VERT CL 70 FT
Sunset
BASCULE BRIDGE
HOR CL 38 FT
VERT CL 27 FT
OVHD PWR CABS
AUTH CL 80 FT
OVHD PWR CABLE
AND PIPELINE
AUTH CL 72 FT
LOCKS
WIDTH 37 FT
LENGTH 175 FT
DEPTH 5 FT
STACK
OVHD PWR CABLE
AUTH CL 93 FT
TOWER
OVHD PWR CABS
AUTH CL 125 FT
(OVER CANAL)
OVHD PWR CAB
AUTH CL 67 FT
Willamette Falls Locks
Navigation Regulations
207.680 (see note A)
NOTE B
CAUTION
Turbulent water in this area is hazardous to navigation.
Willamette Falls
Snag
STANDPIPE
Canemah
Mt Pleasant
Joins page 15

Joins page 8



Joins page 16

Printed at reduced scale. ~~SCALE 1:15,000~~ See Note on page 5.

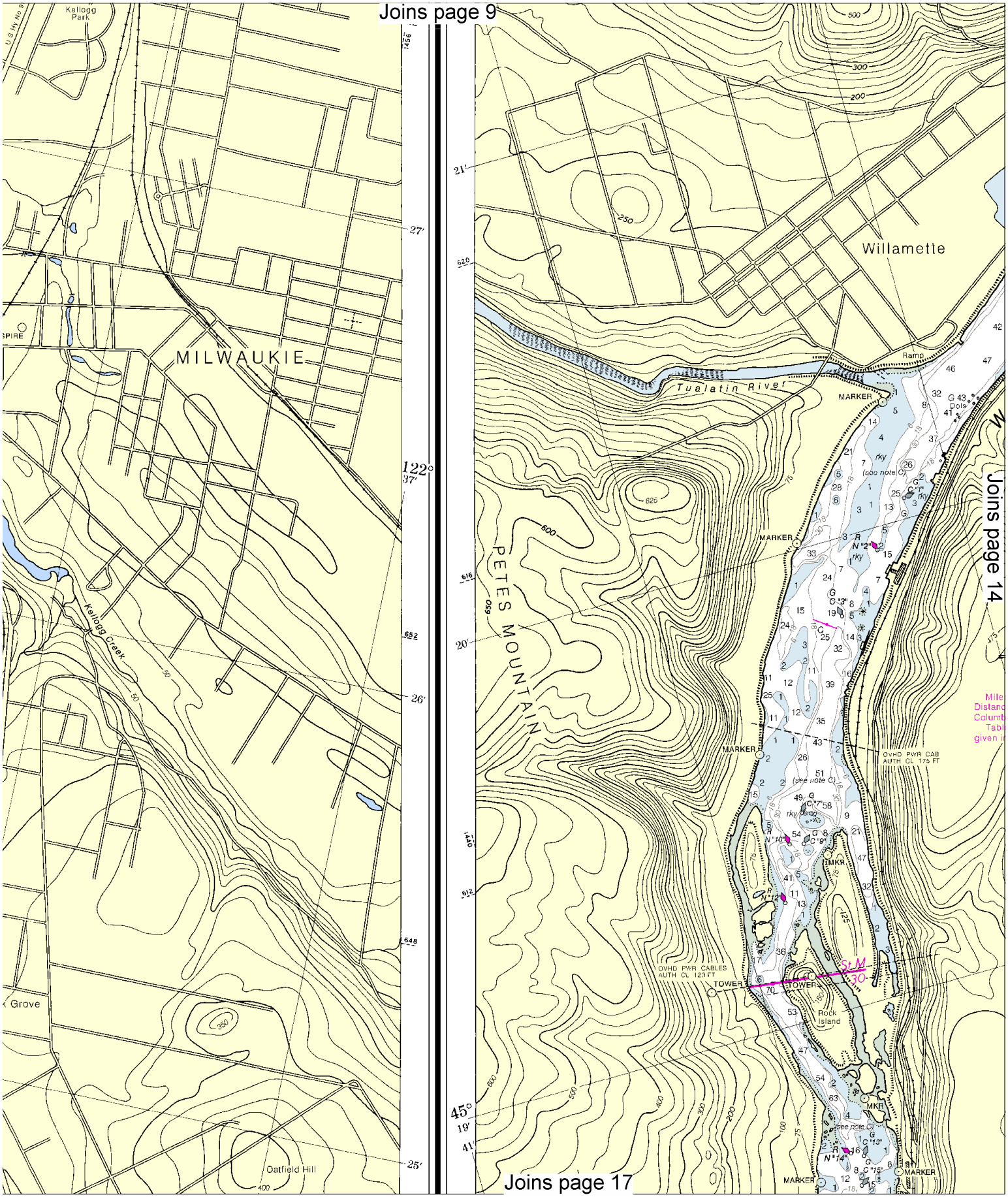
Nautical Miles

0 1

Yards

500 0 500 1000 1500

Joins page 9



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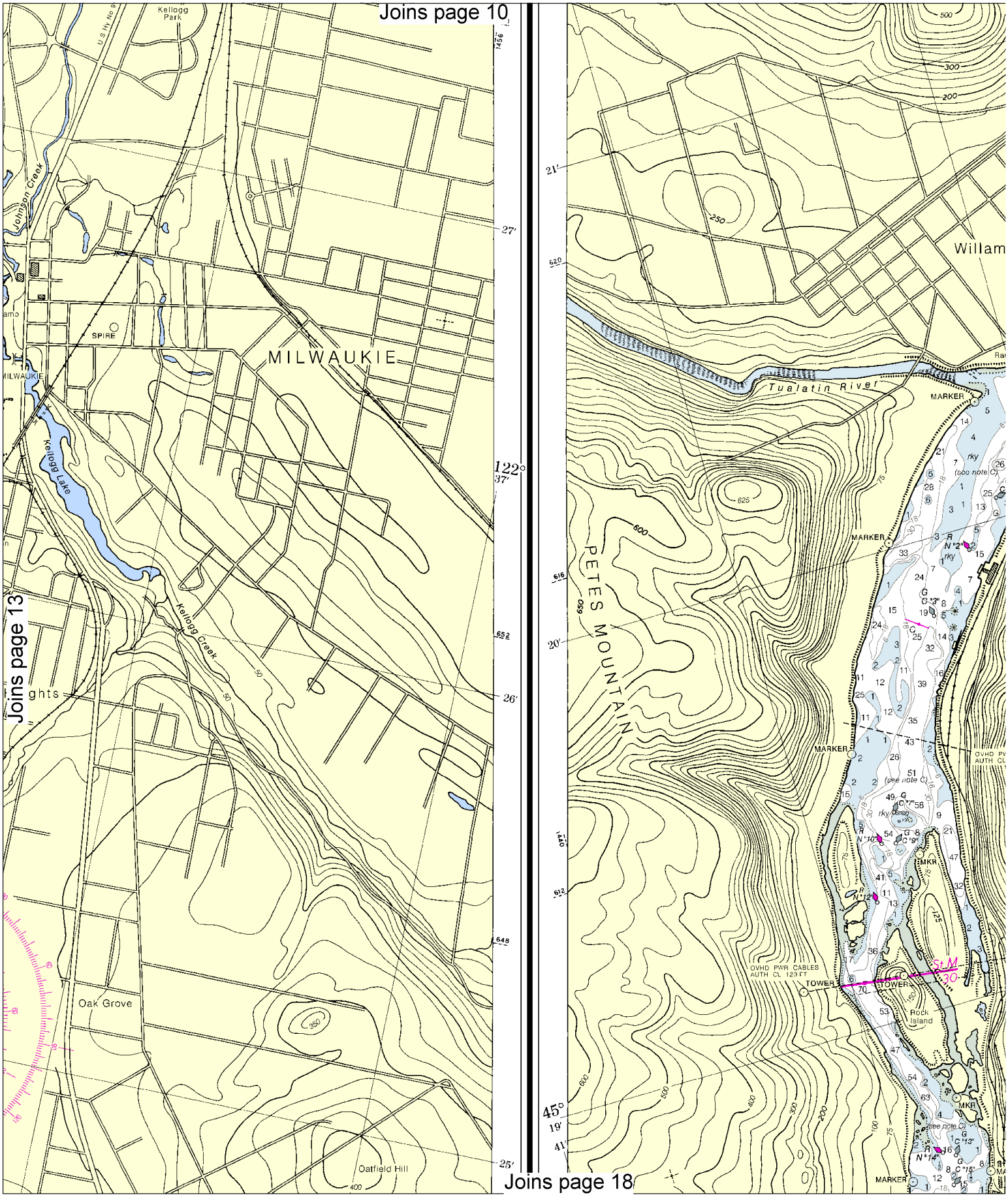
Joins page 17



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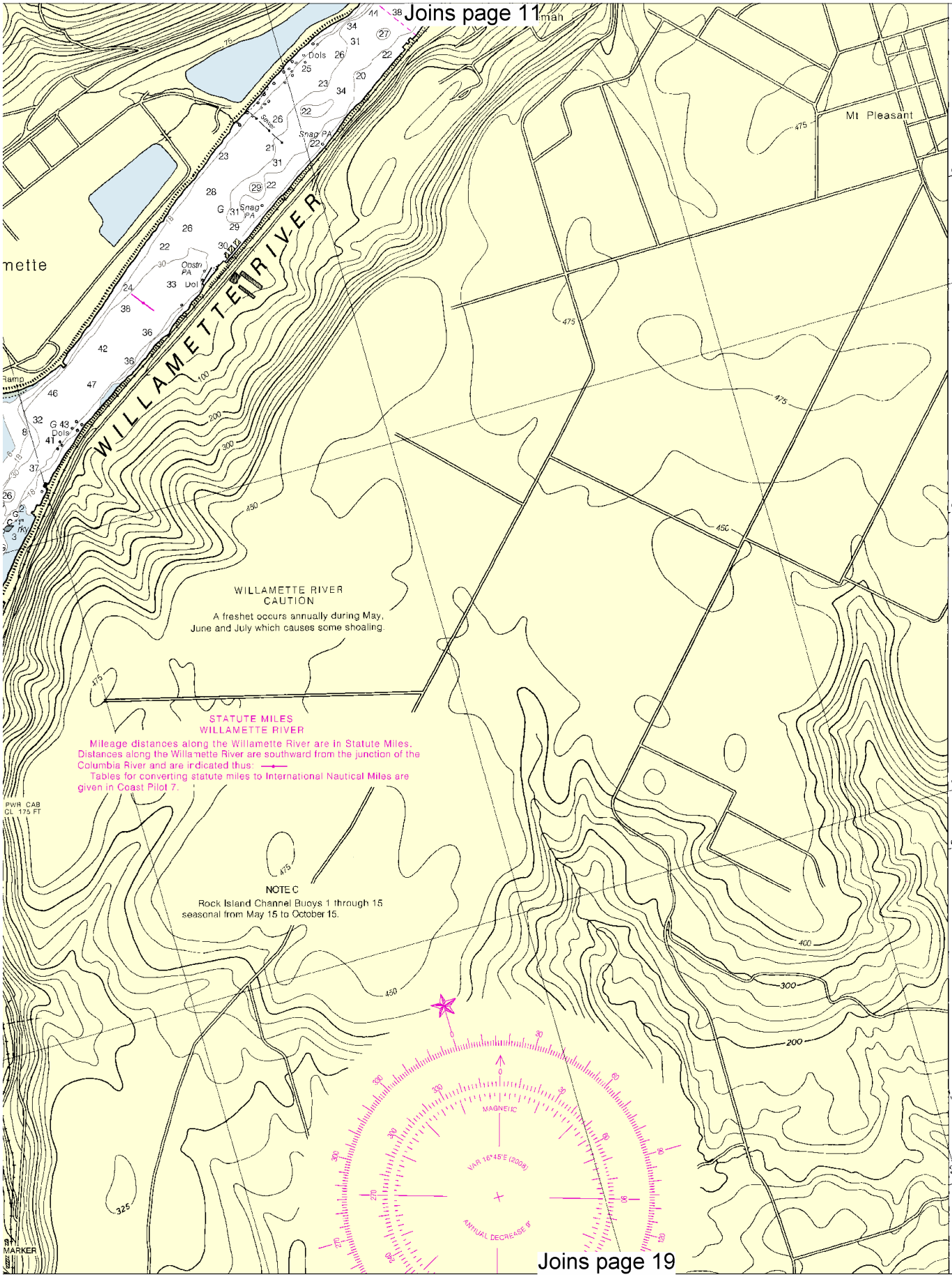
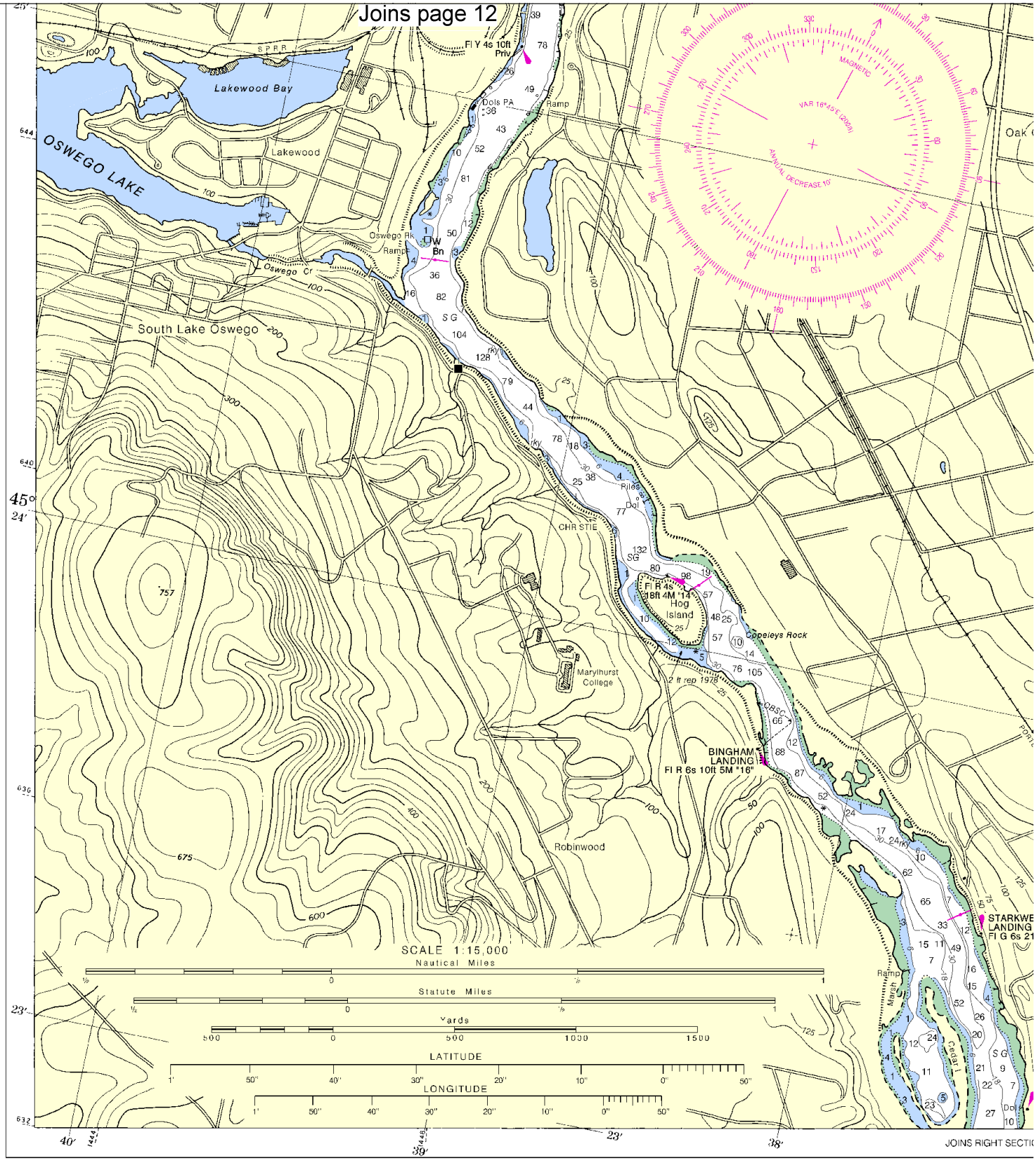
Nautical Miles

0 1

Yards

500 0 500 1000 1500


Joins page 11
WILLAMETTE RIVER
Mt Pleasant
WILLAMETTE RIVER
CAUTION
A freshet occurs annually during May, June and July which causes some shoaling.
STATUTE MILES
WILLAMETTE RIVER
Mileage distances along the Willamette River are in Statute Miles. Distances along the Willamette River are southward from the junction of the Columbia River and are indicated thus:
Tables for converting statute miles to International Nautical Miles are given in Coast Pilot 7.
NOTE C
Rock Island Channel Buoys 1 through 15 seasonal from May 15 to October 15.
MAGNETIC
VAR 16°45'E (2009)
ANNUAL DECREASE 9'
Joins page 19



11th Ed., Jul./ 08 ■ Corrected through NM Jul. 05/08
Corrected through LNM Jun. 24/08

18528

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

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NOAA and its partner, OceanGrafix, offer this cha and critical corrections. Charts are printed when c Editions are available 5-8 weeks before their release about Print-on-Demand charts or contact NOAA help@NauticalCharts.gov, or OceanGrafix at help@OceanGrafix.com.

Printed at reduced scale. ~~SCALE 1:15,000~~ See Note on page 5.

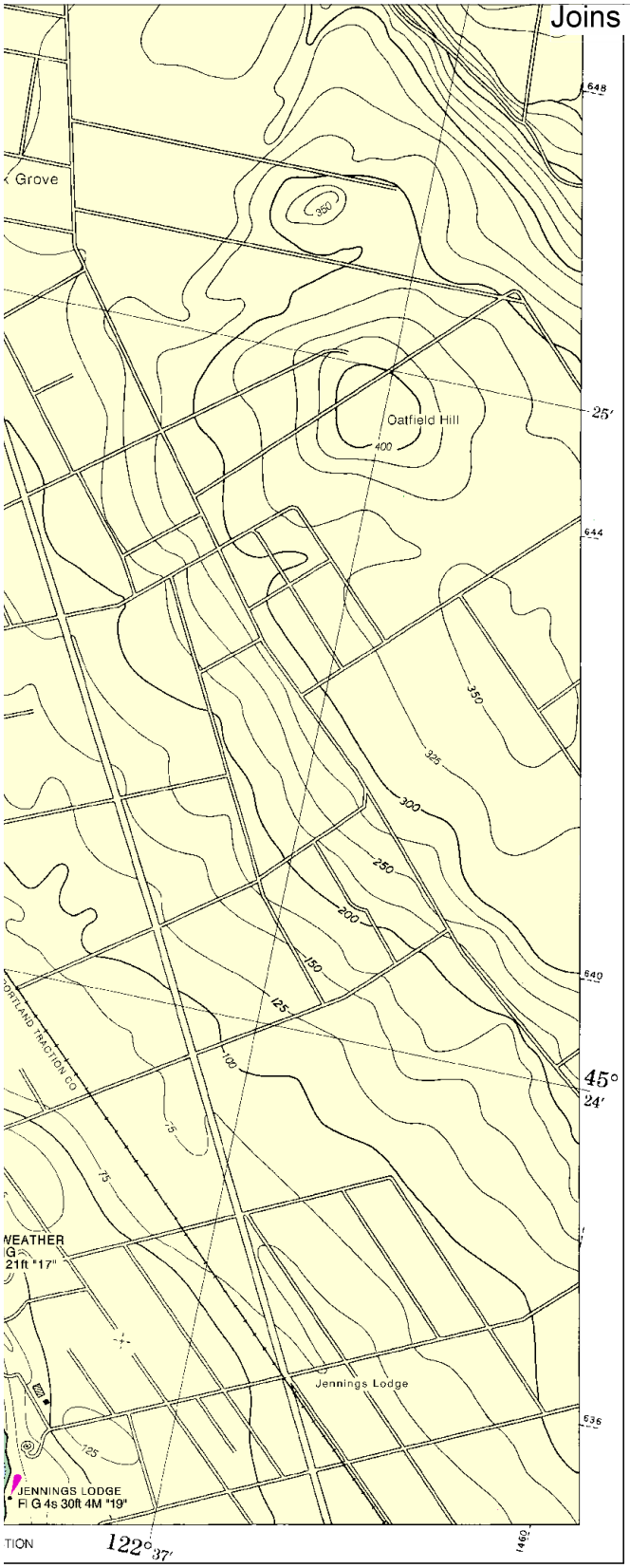
Nautical Miles

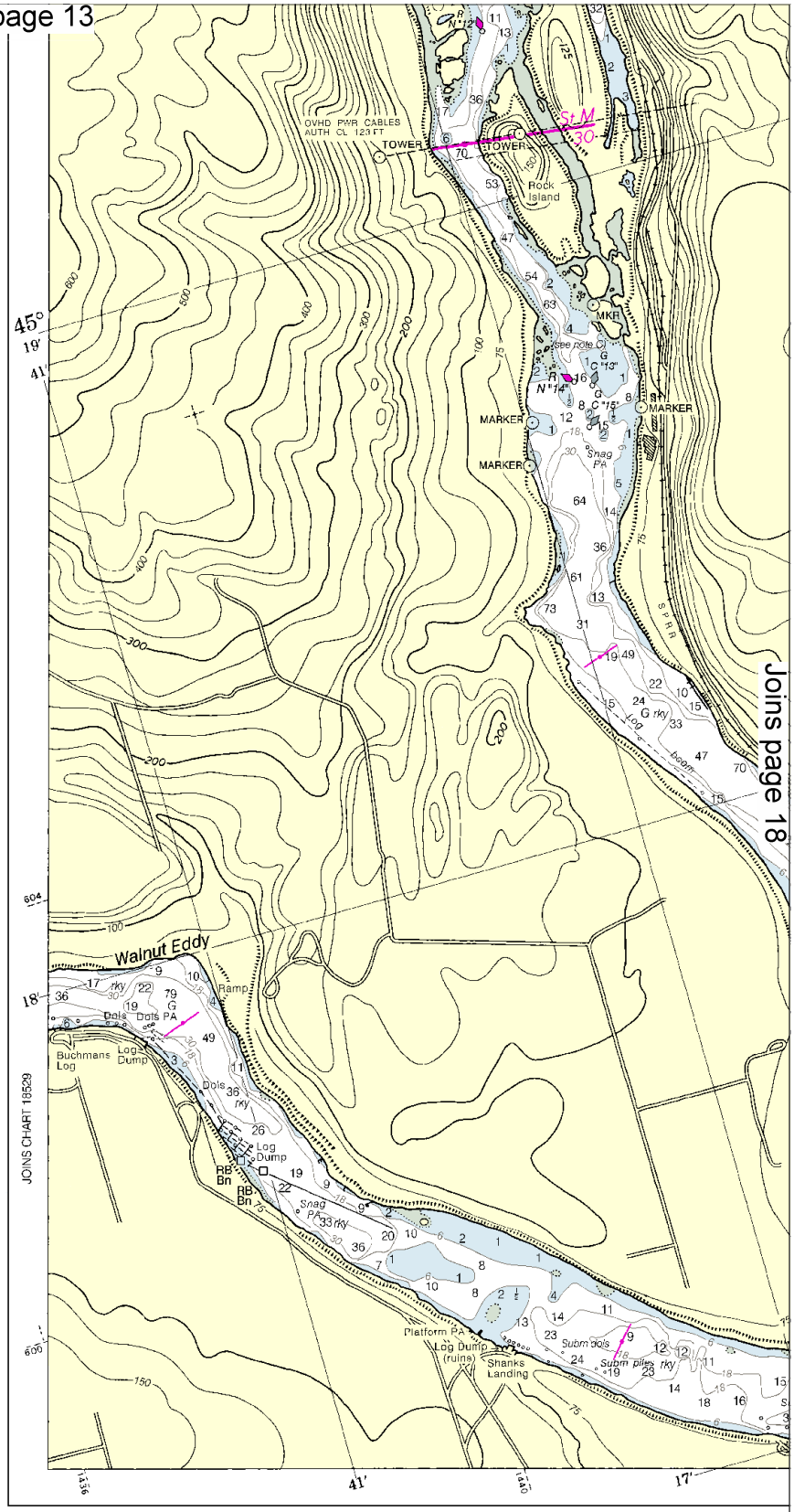
0 1

Yards

500 0 500 1000 1500

Joins page 13





Joins page 18

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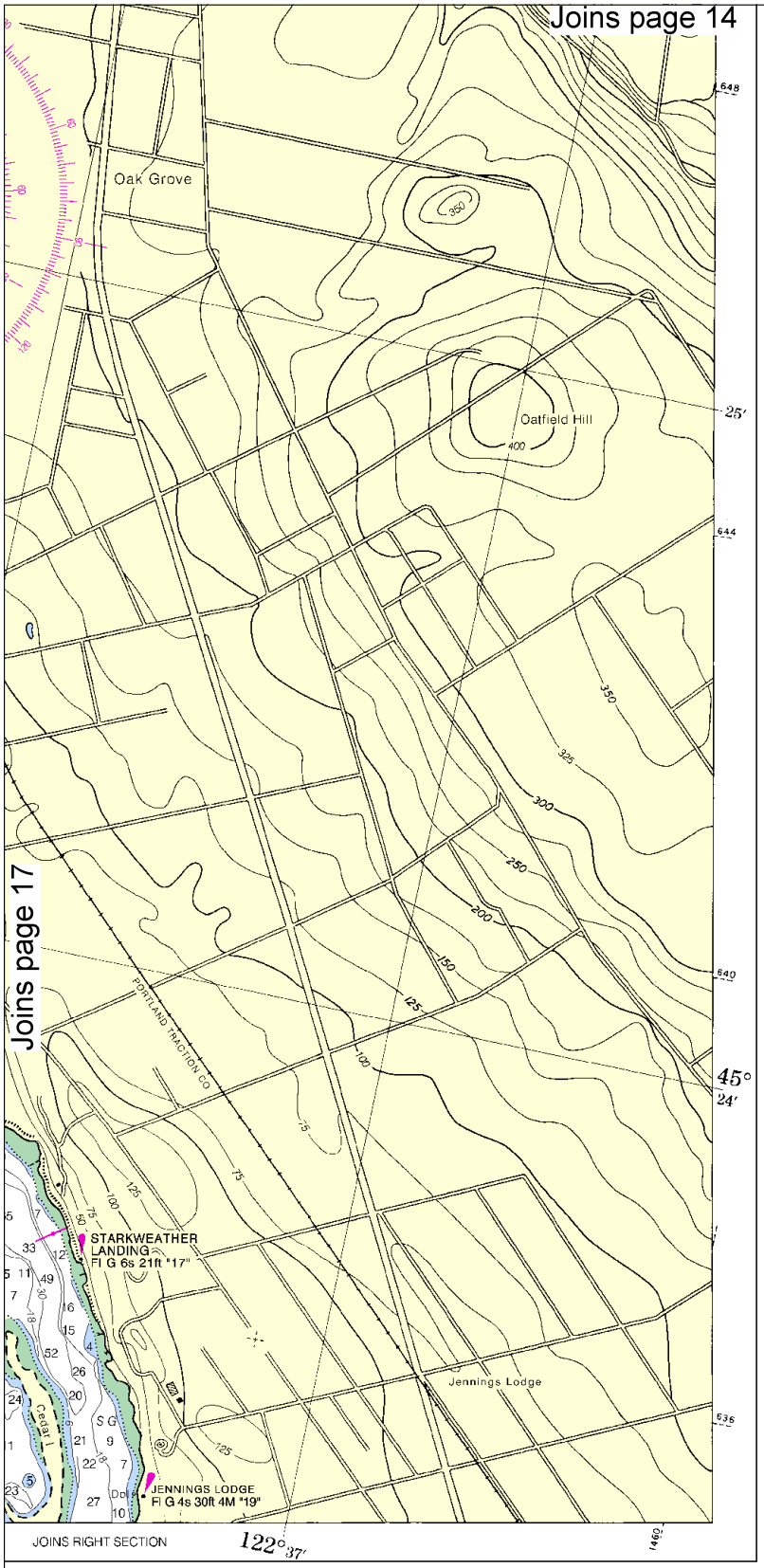
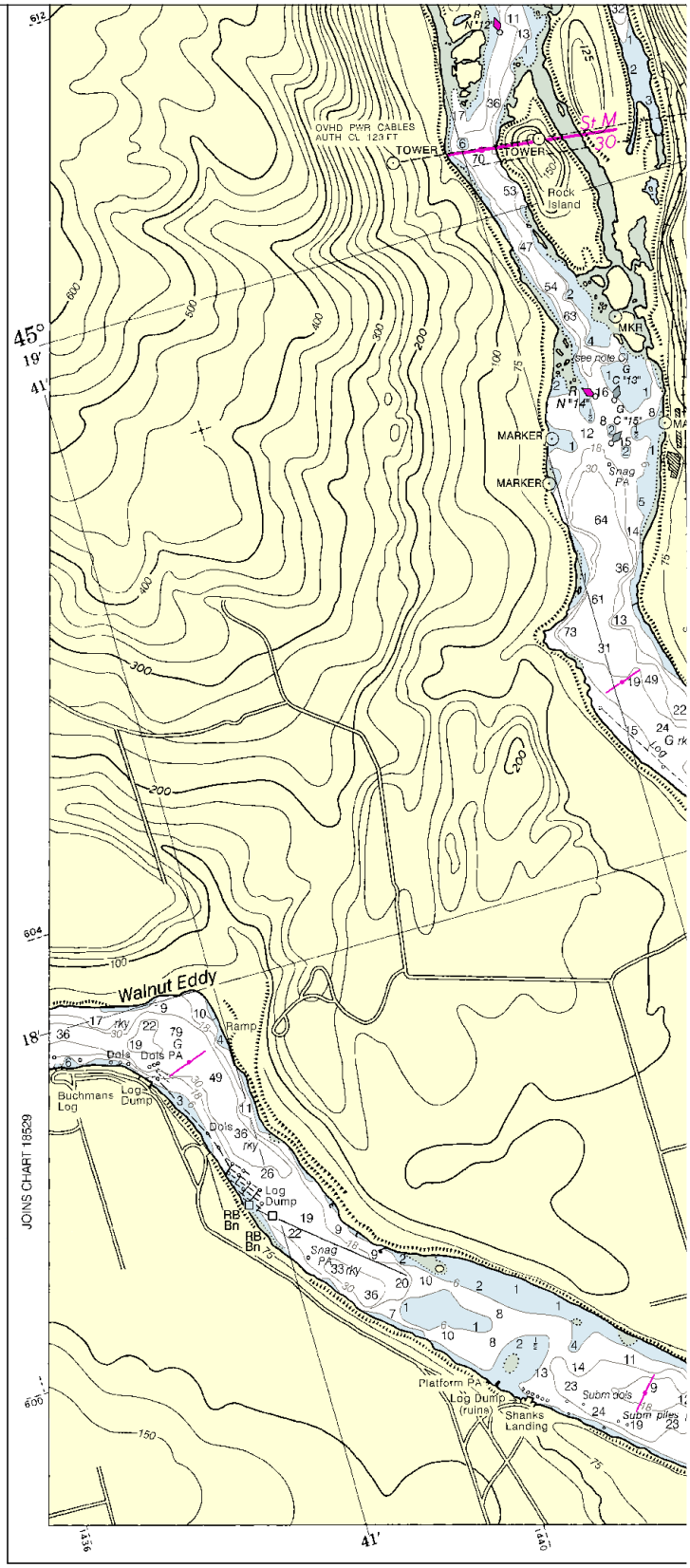
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

FATHOMS	1	2	3	4	5	6	7	8	9	10
FEET	6	12	18	24	30	36	42	48	54	60
METERS	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19									





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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

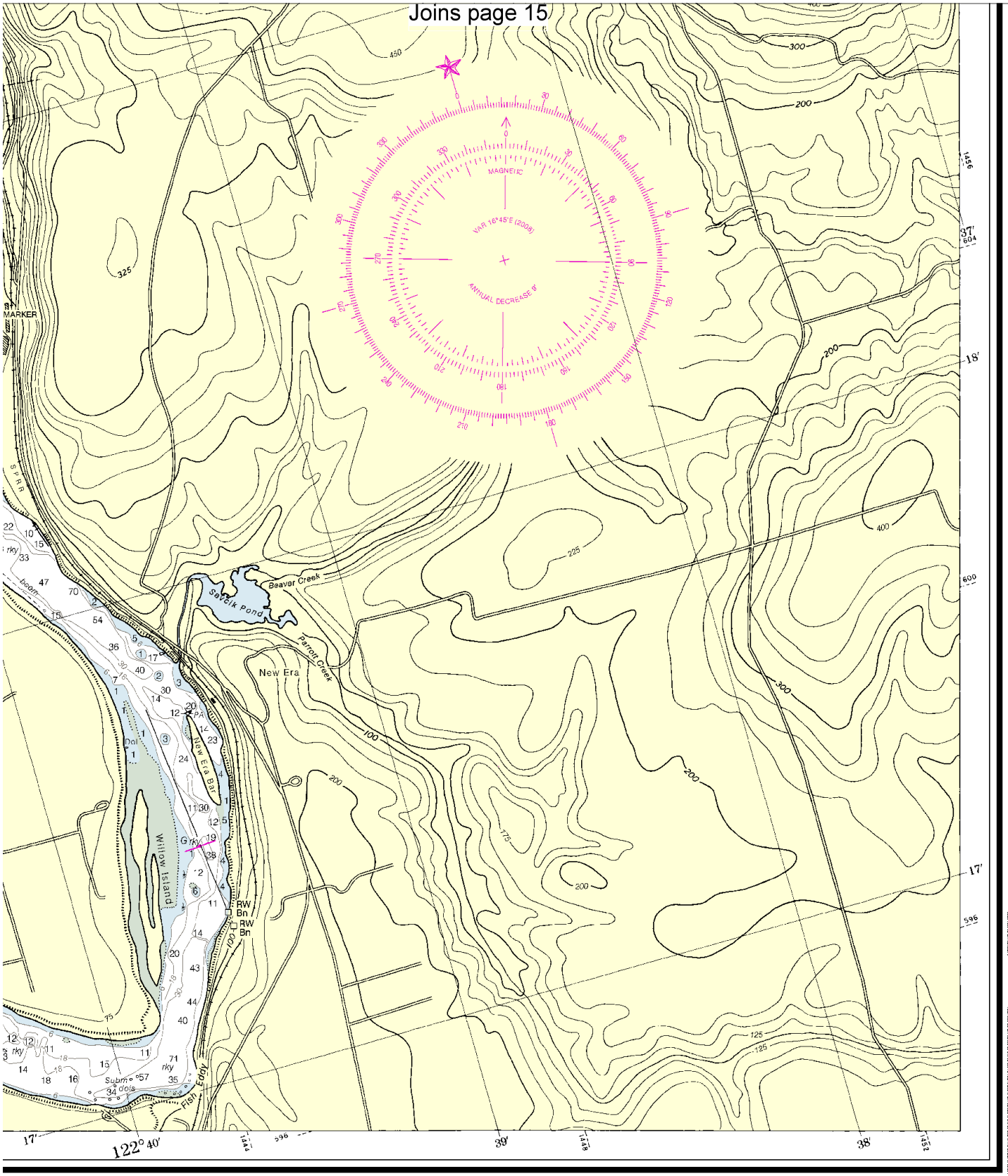
FATHOMS	1	2	3	4	5	6
FEET	6	12	18	24	30	36
METERS	1 2 3 4 5 6 7 8 9 10 11					

Printed at reduced scale. ~~SCALE 1:15,000~~ See Note on page 5.

Nautical Miles: 0 — 1

Yards: 500 — 0 — 500 — 1000 — 1500

Joins page 15



EB.NO. 11
NSN 7642014011613
NGA REFERENCE NO. 18XHA18528

Willamette River, Portland to Walnut Eddy

SOUNDINGS IN FEET - SCALE 1:15,000

18528

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.
Channel 9 – Communications between boats and ship-to-coast.
Channel 13 – Navigation purposes at bridges, locks, and harbors.
Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.
Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.
Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS !!

Mobile Phones – Call 911 for water rescue.
Coast Guard Search & Rescue – 206-220-7001
Coast Guard Portland – 503-240-9301
Commercial Vessel Assistance – 1-800-367-8222

NOAA Weather Radio – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

NOAA, The Nation's Chartmaker

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Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm.

Internet Sites: www.NauticalCharts.NOAA.gov, www.NOAA.gov, www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.