

# BookletChart™

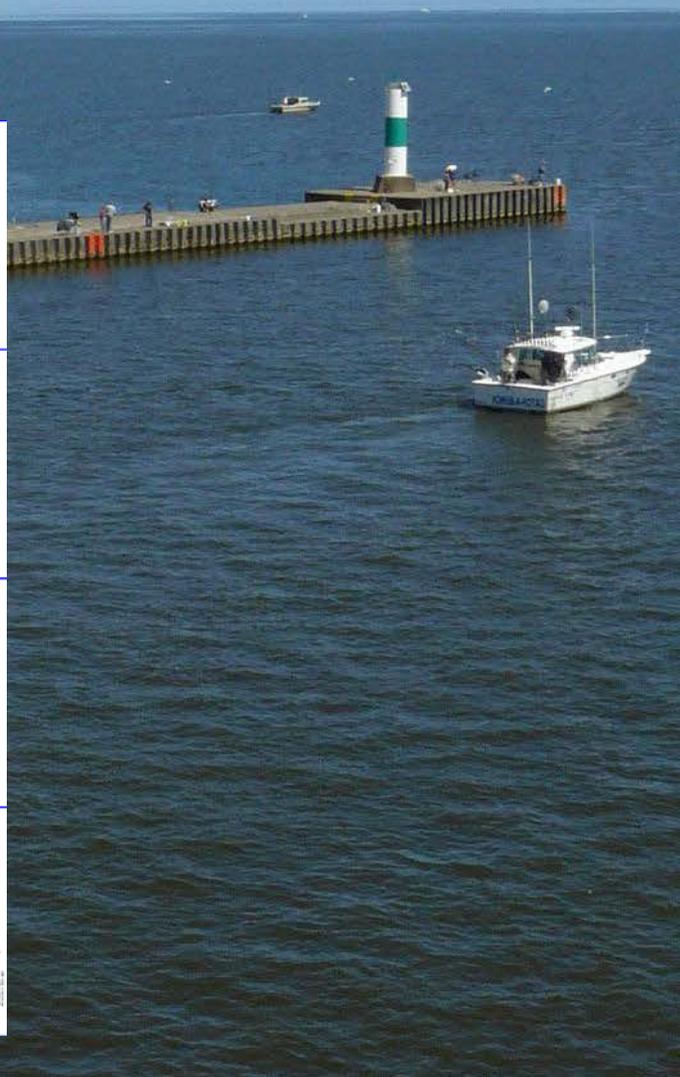
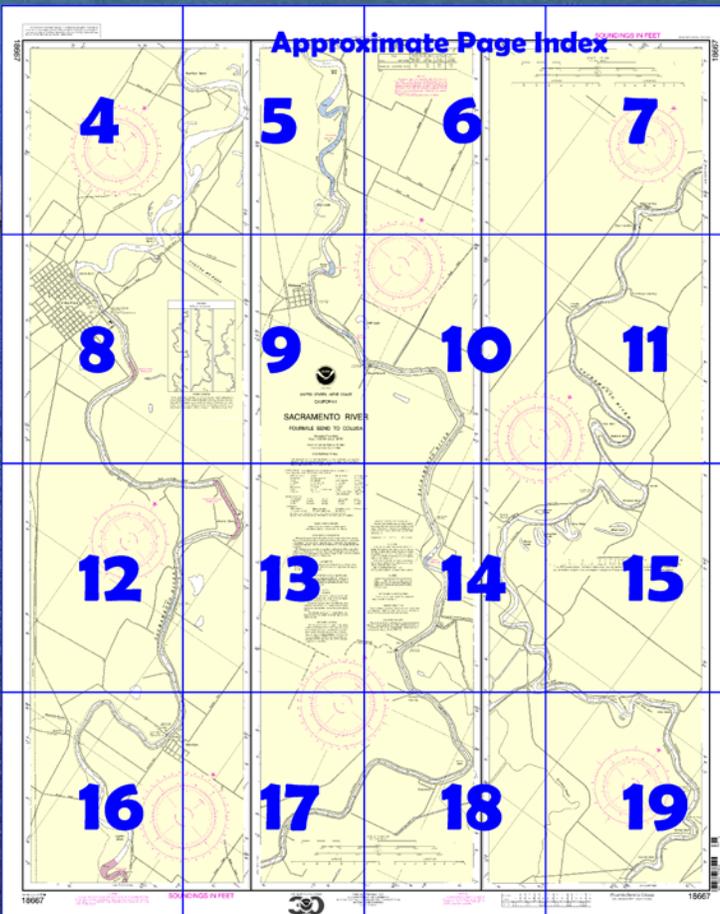


## Sacramento River – Fourmile Bend to Colusa NOAA Chart 18667

*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 Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



**Published by the  
National Oceanic and Atmospheric Administration  
National Ocean Service  
Office of Coast Survey  
[www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov)  
888-990-NOAA**

**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.

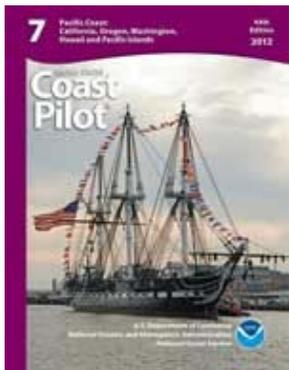
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

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.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=18667>.



**(Selected Excerpts from Coast Pilot)**

Above Sacramento the prevailing flood conditions are as follows: At Verona at the junction of Feather River, 70 miles above the mouth, 20 feet at ordinary floods and 24 feet at extreme floods; at Colusa, 125 miles above the mouth, 25 feet at ordinary floods and 32 feet at extreme floods.

Between Sacramento and Colusa are numerous warehouses and small landings.

**Feather River** rises in the Sierra Nevada

and empties into Sacramento River at **Verona**, 18 miles above Sacramento. The river has been improved by snagging and the

construction of wing dams at **Marysville**, 26 miles above the mouth. The controlling depth is usually 3 feet from about February 15 to June 15. Ordinary flood fluctuation is 20 feet, and extreme flood fluctuation is about 25 feet. With the exception of several small privately owned landings, all loading is handled on the banks. There has been no commercial navigation on the Feather River in recent years.

**U.S. Coast Guard Rescue Coordination Center  
24 hour Regional Contact for Emergencies**

RCC Alameda      Commander  
11<sup>th</sup> CG District      (510) 437-3700  
Alameda, CA

# Table of Selected Chart Notes

## 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.

## SACRAMENTO RIVER DEPTHS

Although the soundings on this chart depict the general trends in depths, they are unreliable because of continual scouring or shoaling due to changing river stages. The areas which frequently shoal to the extent that passage of vessels drawing over 4 feet is difficult at extreme low water stages are shaded in purple.

The Federal project provides for a shallow-draft channel, 6 feet deep at low water, from Sacramento to Colusa. The Corps of Engineers conducts annual maintenance dredging operations to provide project depth. Consult the District Engineer in Sacramento for controlling depths.

**THE DATUM OF THE SOUNDINGS IS THE LOW WATER REFERENCE PLANE ESTABLISHED BY THE U.S. CORPS OF ENGINEERS FROM SACRAMENTO TO ORD FERRY**

## TIDAL INFORMATION

Name	Place (LAT/LONG)	Height referred to datum of soundings (MLLW)			
		Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
Sacramento	(38°35'N/121°30'W)	feet 2.9	feet 2.6	feet 0.3	feet 1.5

(200)

## ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rot rotating
B black	Is isophase	OBSC obscured	s seconds
Bn beacon	LT HQ lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

### Bottom characteristics:

Blds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	GrS grass	M mud	S sand	sy sticky

### Miscellaneous:

AUTH authorized	Obstn obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

Wreck, rock, obstruction, or shoal swept clear to the depth indicated.

(2) Rocks that cover and uncover, with heights in feet above datum of soundings.



Mercator Projection  
Scale 1:20,000 at Lat. 38°55'

North American Datum of 1983  
(World Geodetic System 1984)

## SOUNDINGS IN FEET

### CAUTION

Bridge and cable horizontal clearances not subject to tidal influence are referenced to ordinary summer low water level. During flood stage levels, clearances may be reduced by 29 feet or more.

### 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.

## NOAA VHF-FM WEATHER BROADCASTS

The National Weather Service station listed below provides continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Sacramento, CA KEC-57 162.55 MHz

## 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 0.368" southward and 3.878" westward to agree with this chart.

### CAUTION

Only marine radiobeacons have been calibrated for surface use. Limitations on the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Imagery and Mapping 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) ◦ (Approximate location)

## NOTE B CAUTION

Mariners are warned that numerous uncharted piles, snags, pumps, and pipes, some submerged, may exist along edges of the waterway.

Numerous buoys and signs mark the wing dams, along the Sacramento River. Mariners should never attempt to pass between the warning buoys and the shore.

The river bed at Gravel Pt., Ogden Bend, and Missouri Bend has shifted. No recent depth information available.

## BRIDGE AND OVERHEAD CABLE CLEARANCES

Clearances are charted as furnished by the Corps of Engineers. Overhead cable clearances are referred to high water. Bridge clearances are referred to High Water (HW) and Low Water (LW).

## 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.

## 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 communication is impossible (33 CFR 153).

## NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 11th Coast Guard District in Alameda, California or at the office of the District Engineer, Corps of Engineers in Sacramento, California.

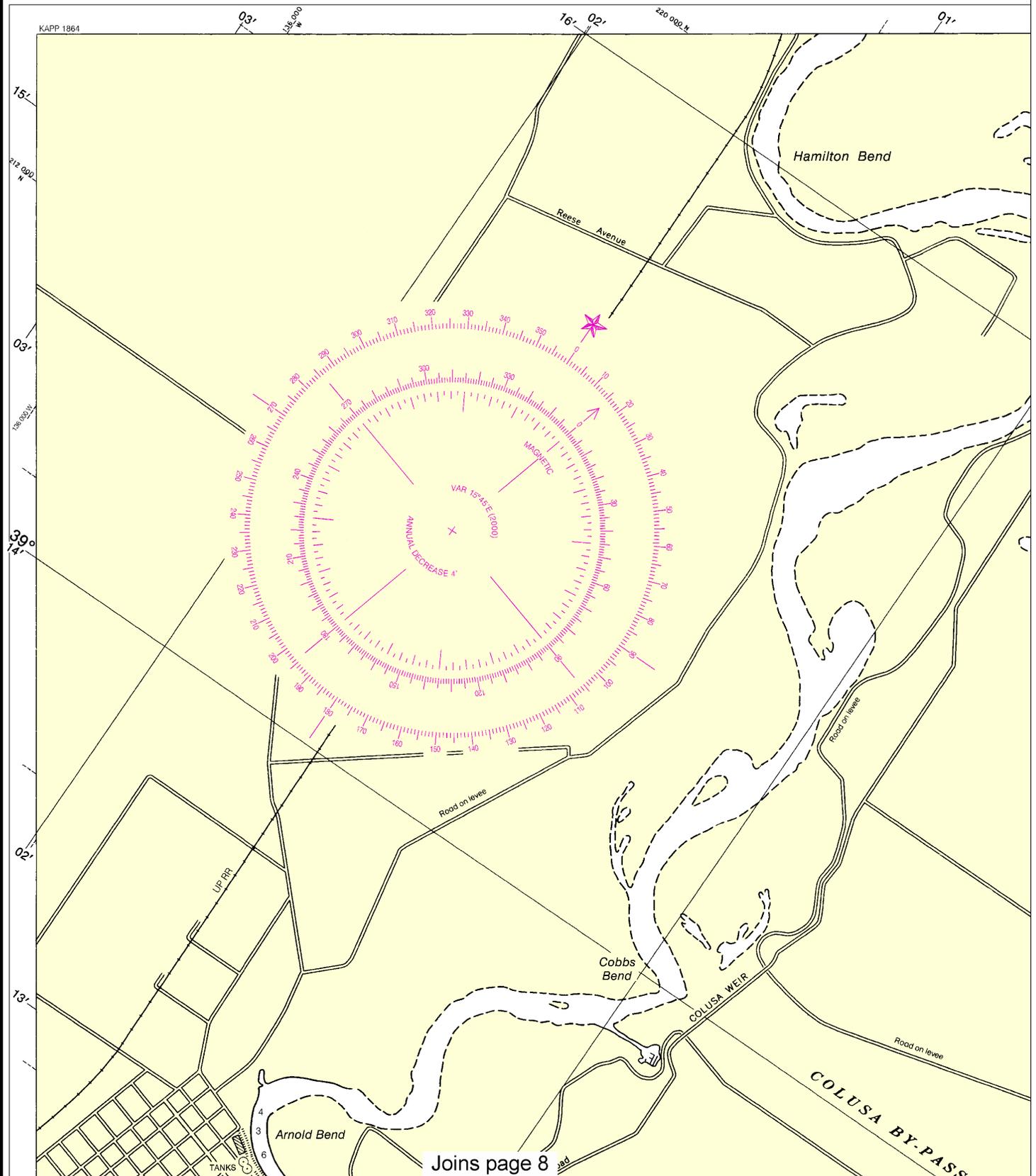
Refer to charted regulation section numbers.

## 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.

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

18667



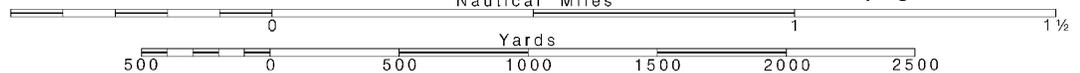
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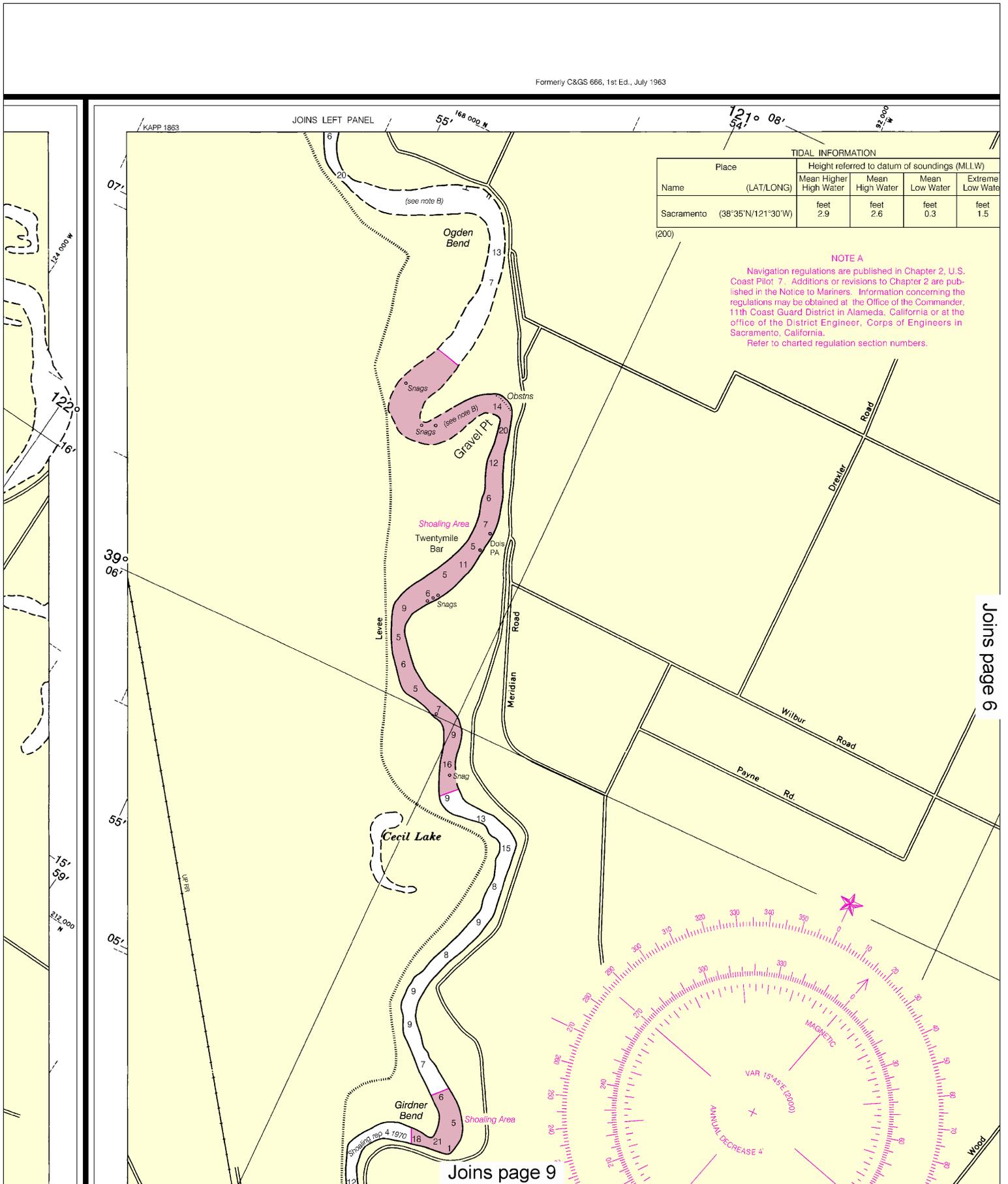
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:20,000  
Nautical Miles

See Note on page 5.



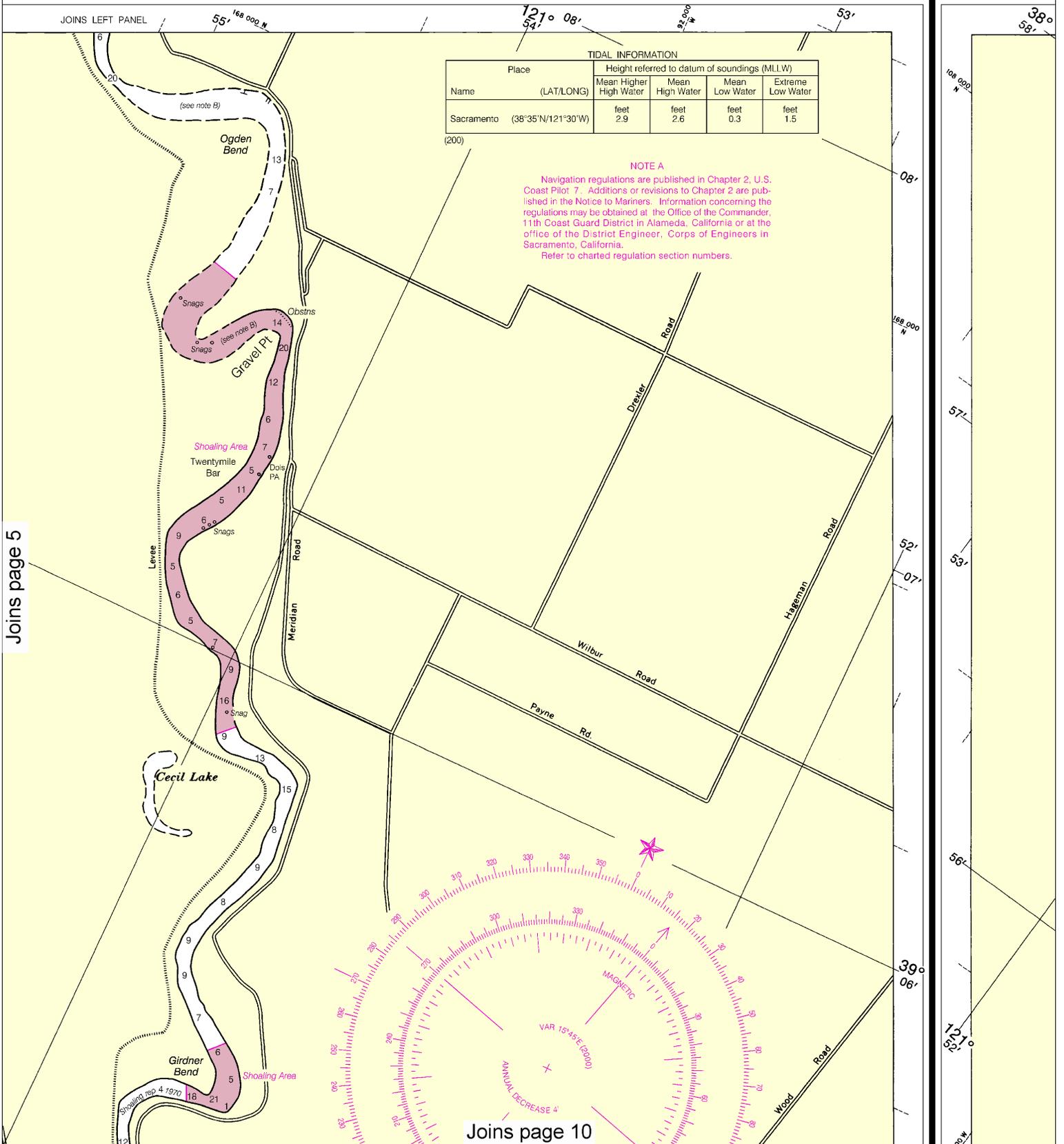


Joins page 6

Joins page 9

This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:26667. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.





Joins page 5

Joins page 10

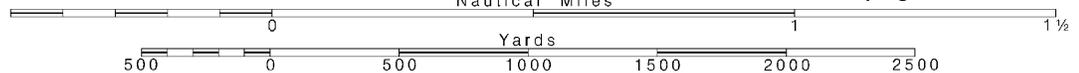


Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

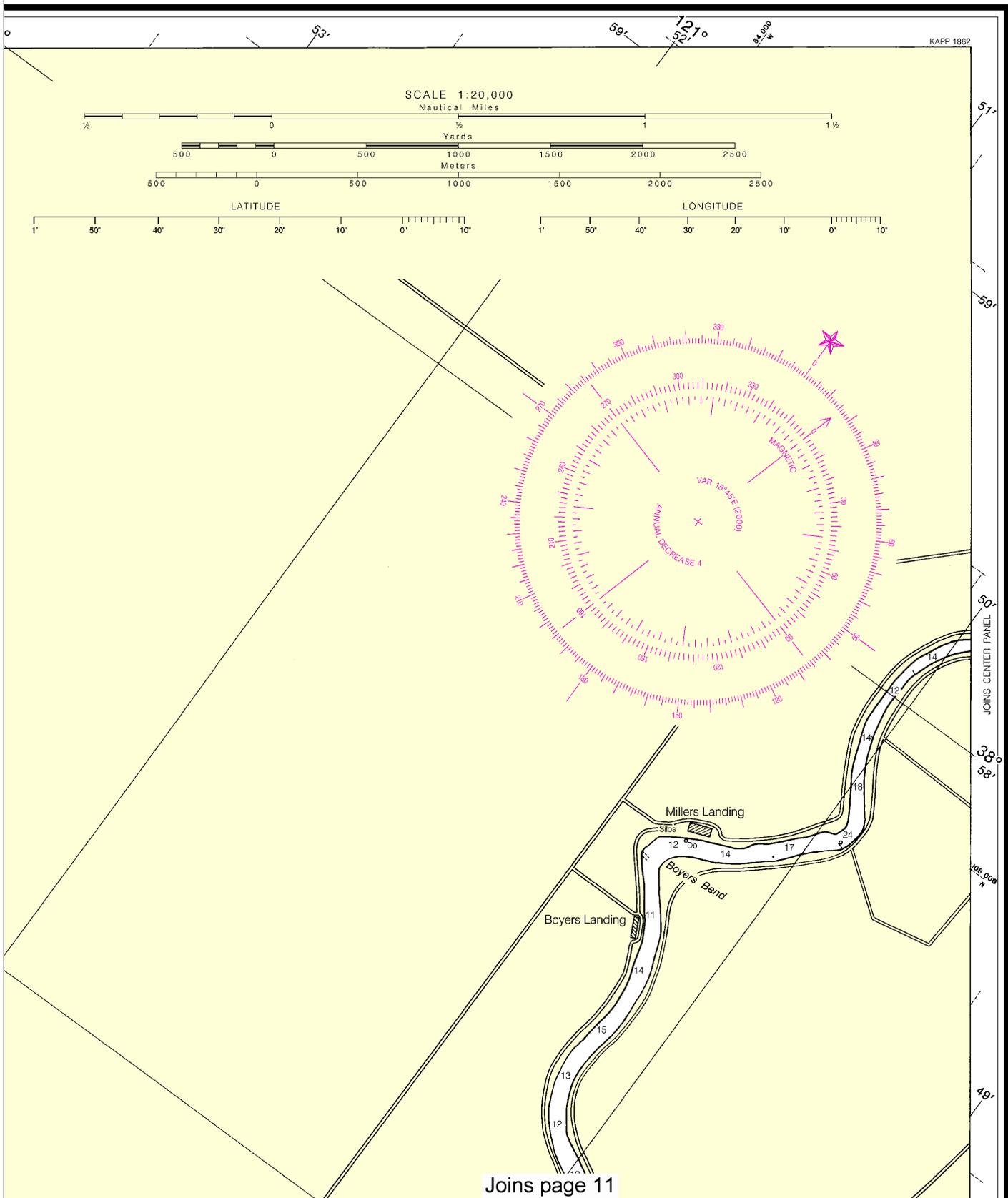
SCALE 1:20,000  
 Nautical Miles

See Note on page 5.



# SOUNDINGS IN FEET

Nautical Chart Catalog No. 2, Panels N, O



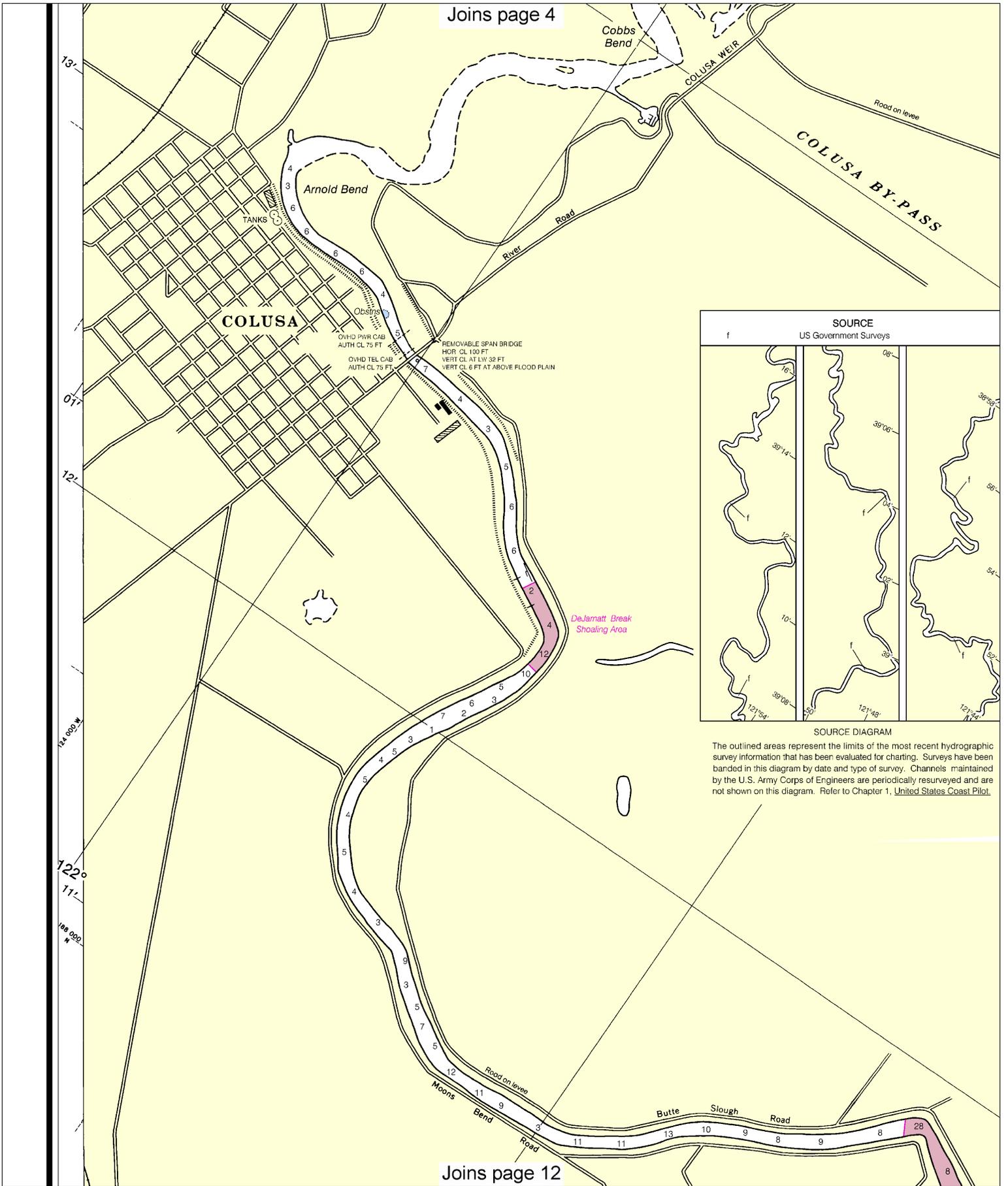
18667

Joins page 11

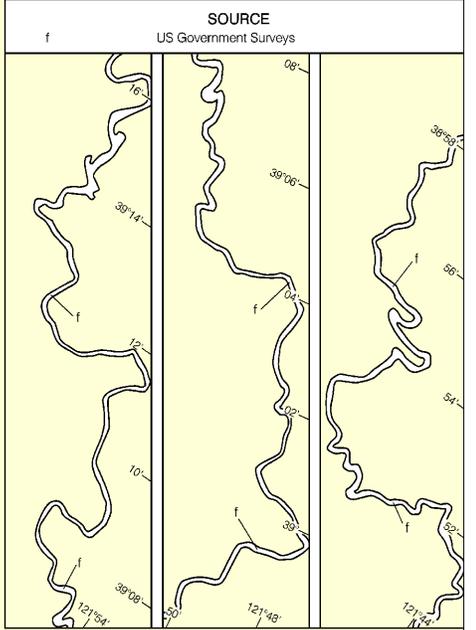
This BookletChart has been updated through: Coast Guard Local Notice To Mariners: 4612 11/13/2012,  
NGA Weekly Notice to Mariners: 4812 12/1/2012,  
Canadian Coast Guard Notice to Mariners: n/a.



Joins page 4



Joins page 12



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*.

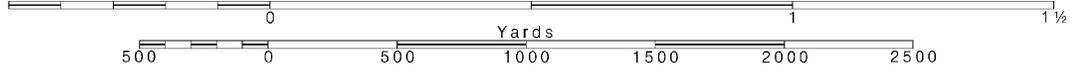


Note: Chart grid lines are aligned with true north.

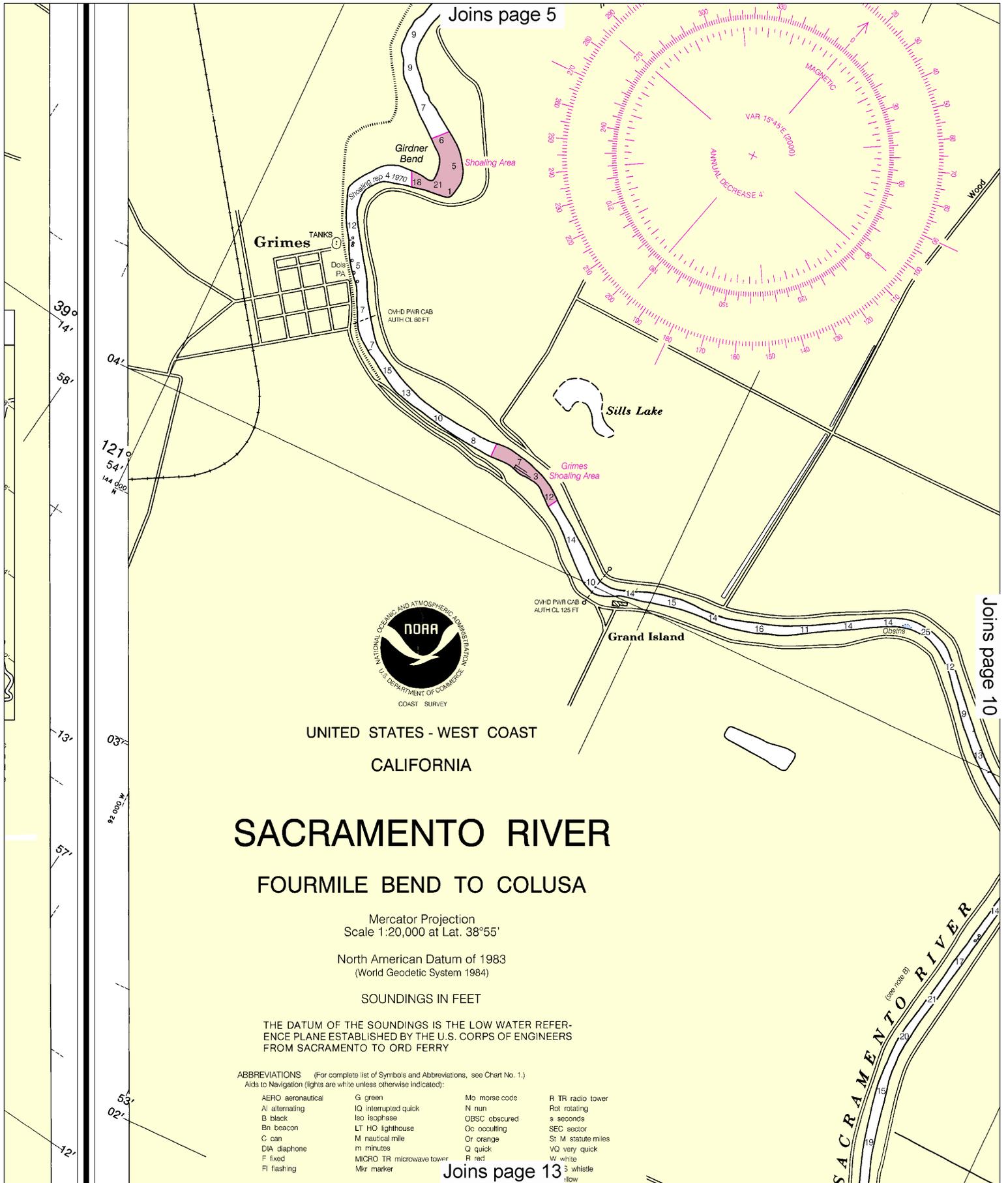
Printed at reduced scale.

SCALE 1:20,000  
Nautical Miles

See Note on page 5.



Joins page 5



UNITED STATES - WEST COAST  
CALIFORNIA

# SACRAMENTO RIVER

## FOURMILE BEND TO COLUSA

Mercator Projection  
Scale 1:20,000 at Lat. 38°55'

North American Datum of 1983  
(World Geodetic System 1984)

SOUNDINGS IN FEET

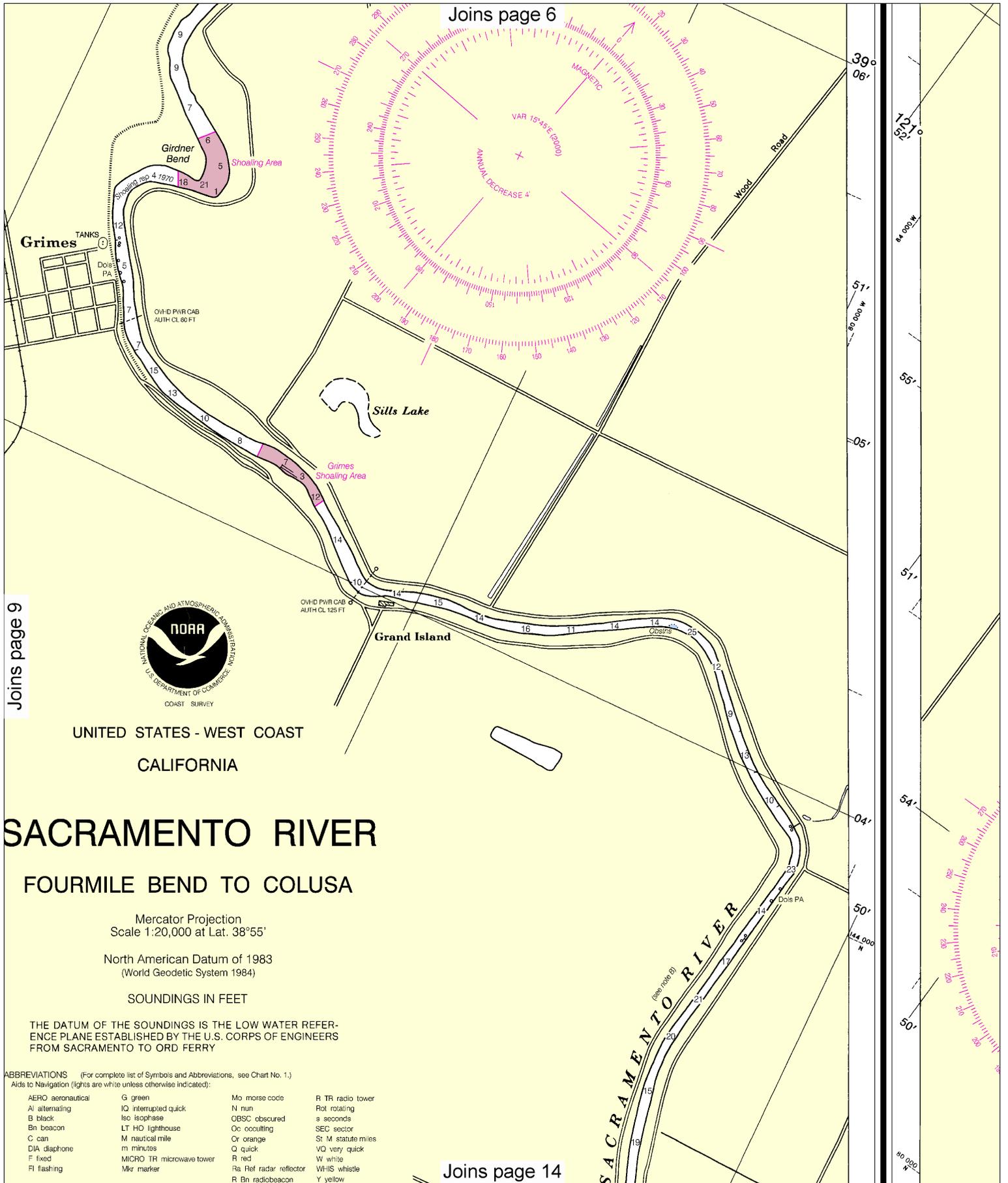
THE DATUM OF THE SOUNDINGS IS THE LOW WATER REFERENCE PLANE ESTABLISHED BY THE U.S. CORPS OF ENGINEERS FROM SACRAMENTO TO ORD FERRY

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)  
Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rot rotating
B black	IsC isophase	OBSC obscured	s seconds
Bn beacon	LT HO lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Wh whistle	slow

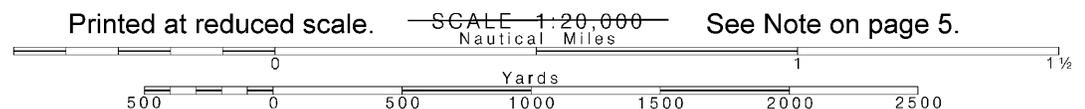
Joins page 13

Joins page 10



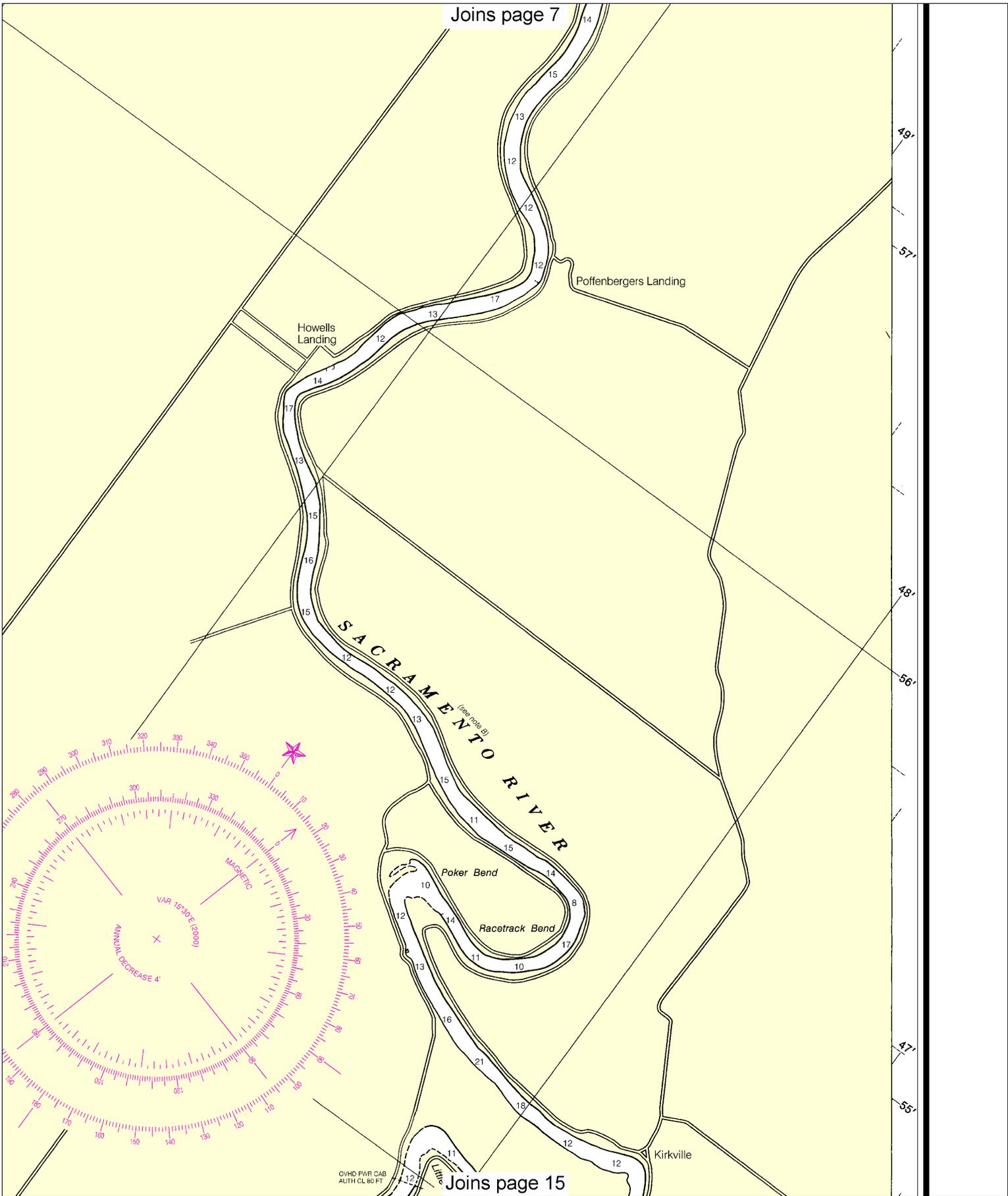
**10**

Note: Chart grid lines are aligned with true north.



See Note on page 5.

Joins page 7



OVHD PWR CAB  
AUTH CL 80 FT

Joins page 15



SOUNDINGS IN FEET

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Bottom characteristics:

Blds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	GrS grass	M mud	S sand	sy sticky

Miscellaneous:

AUTH authorized	Obstn obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

⚓ Wreck, rock, obstruction, or shoal swept clear to the depth indicated.  
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

PLANE COORDINATE GRID

Corps of Engineers plane coordinate grid is indicated by dashed ticks at 4,000 foot intervals

SACRAMENTO RIVER DEPTHS

Although the soundings on this chart depict the general trends in depths, they are unreliable because of continual scouring or shoaling due to changing river stages. The areas which frequently shoal to the extent that passage of vessels drawing over 4 feet is difficult at extreme low water stages are shaded in purple.

The Federal project provides for a shallow-draft channel, 8 feet deep at low water, from Sacramento to Colusa. The Corps of Engineers conducts annual maintenance dredging operations to provide project depth. Consult the District Engineer in Sacramento for controlling depths.

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Clearances are charted as furnished by the Corps of Engineers. Overhead cable clearances are referred to high water. Bridge clearances are referred to High Water (HW) and Low Water (LW).

NOTE B

CAUTION

Mariners are warned that numerous uncharted piles, snags, pumps, and pipes, some submerged, may exist along edges of the waterway.

Numerous buoys and signs mark the wing dams, along the Sacramento River. Mariners should never attempt to pass between the warning buoys and the shore.

The river bed at Gravel Pt., Ogdan Bend, and Missouri Bend has shifted. No recent depth information available.

HORIZONTAL DATUM

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NOAA VHF-FM WEATHER BROADCASTS

The National Weather Service station listed below provides continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Sacramento, CA KEC-57 162.55 MHz

CAUTION

Only marine radiobeacons have been calibrated for surface use. Limitations on the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Imagery and Mapping 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:  
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SUPPLEMENTAL INFORMATION

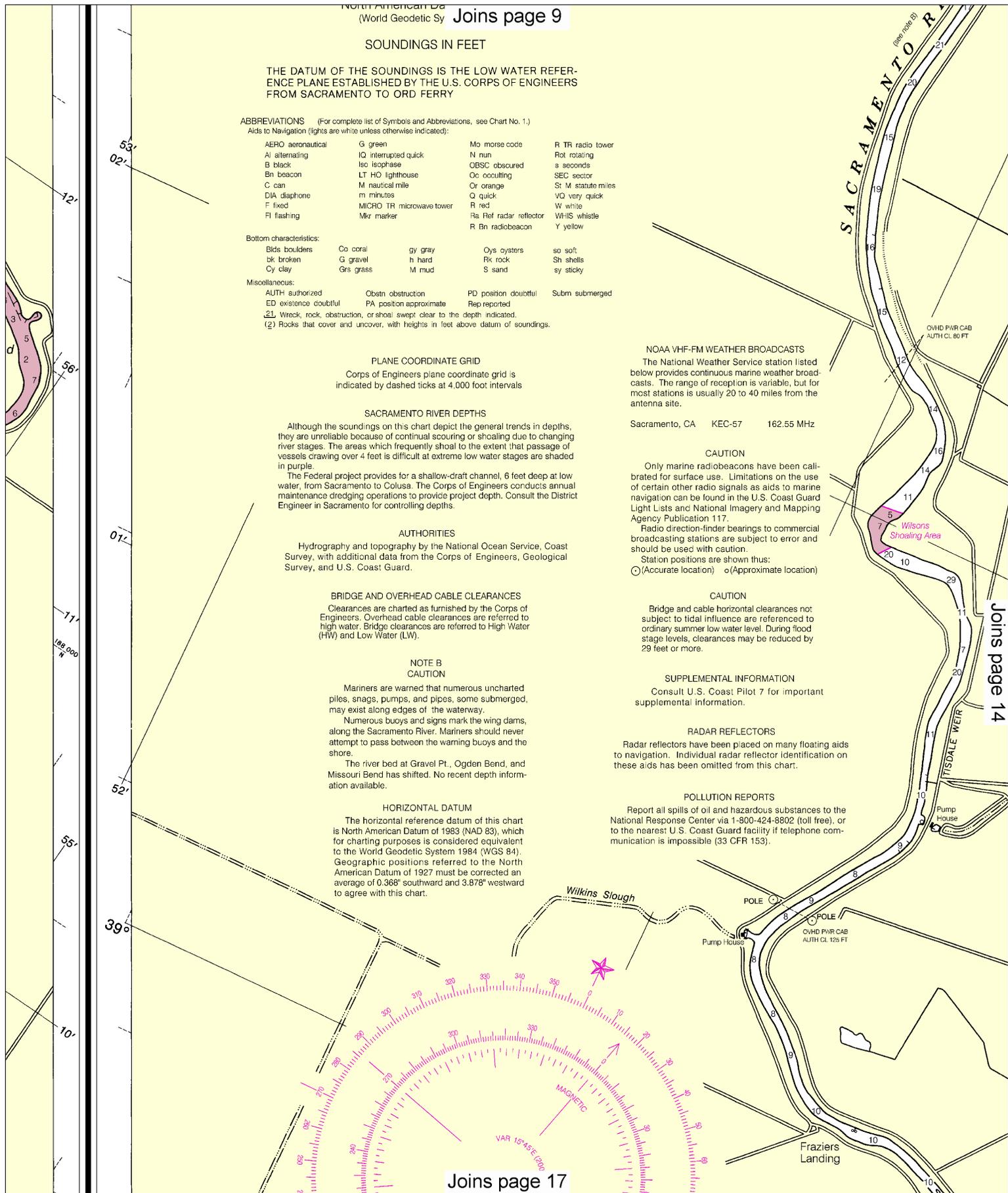
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RADAR REFLECTORS

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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 communication is impossible (33 CFR 153).



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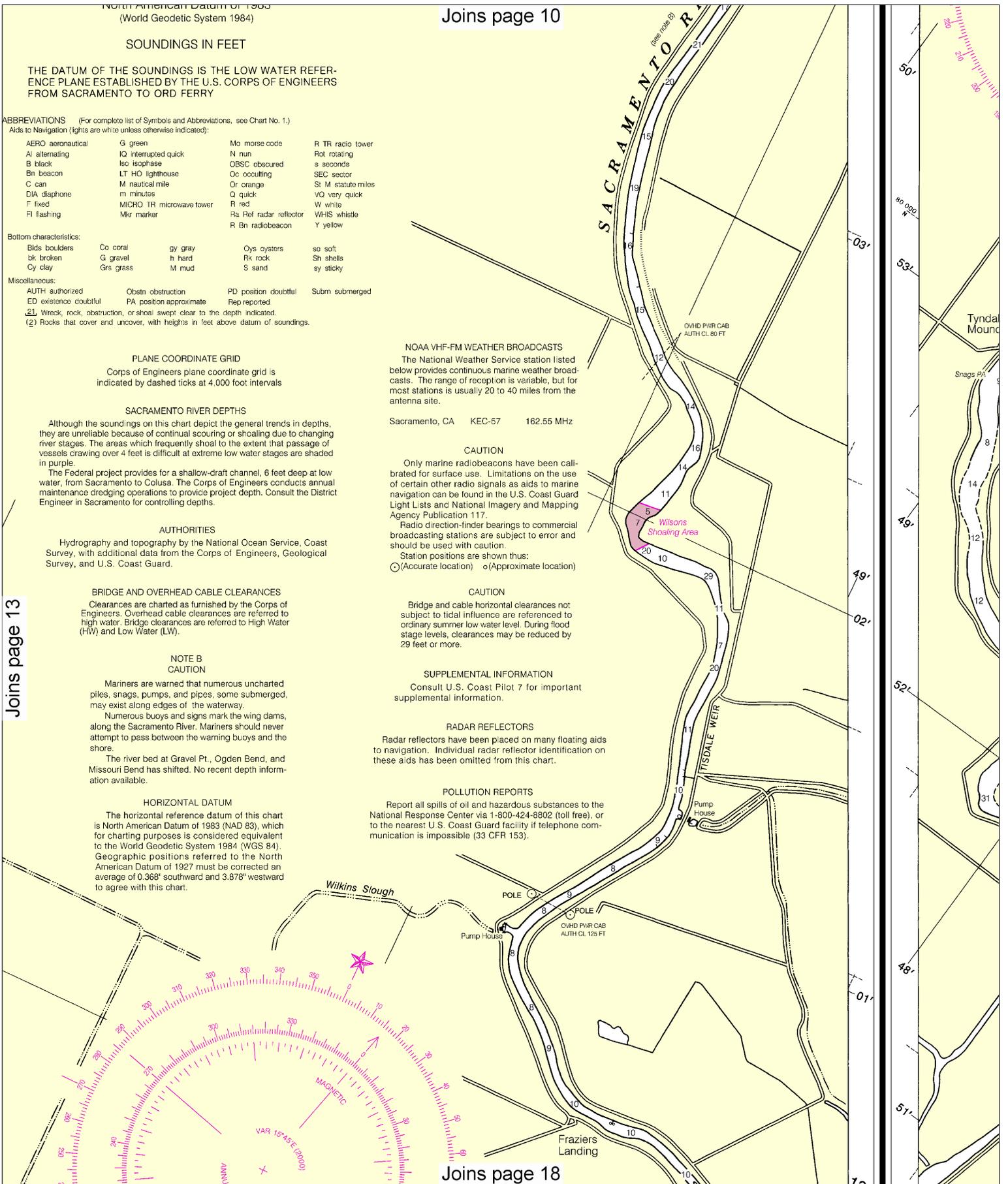
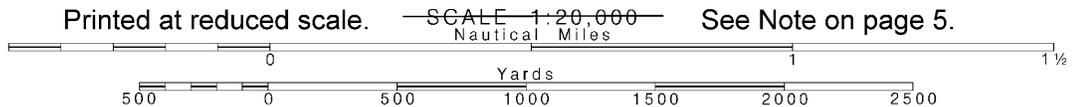
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Joins page 13

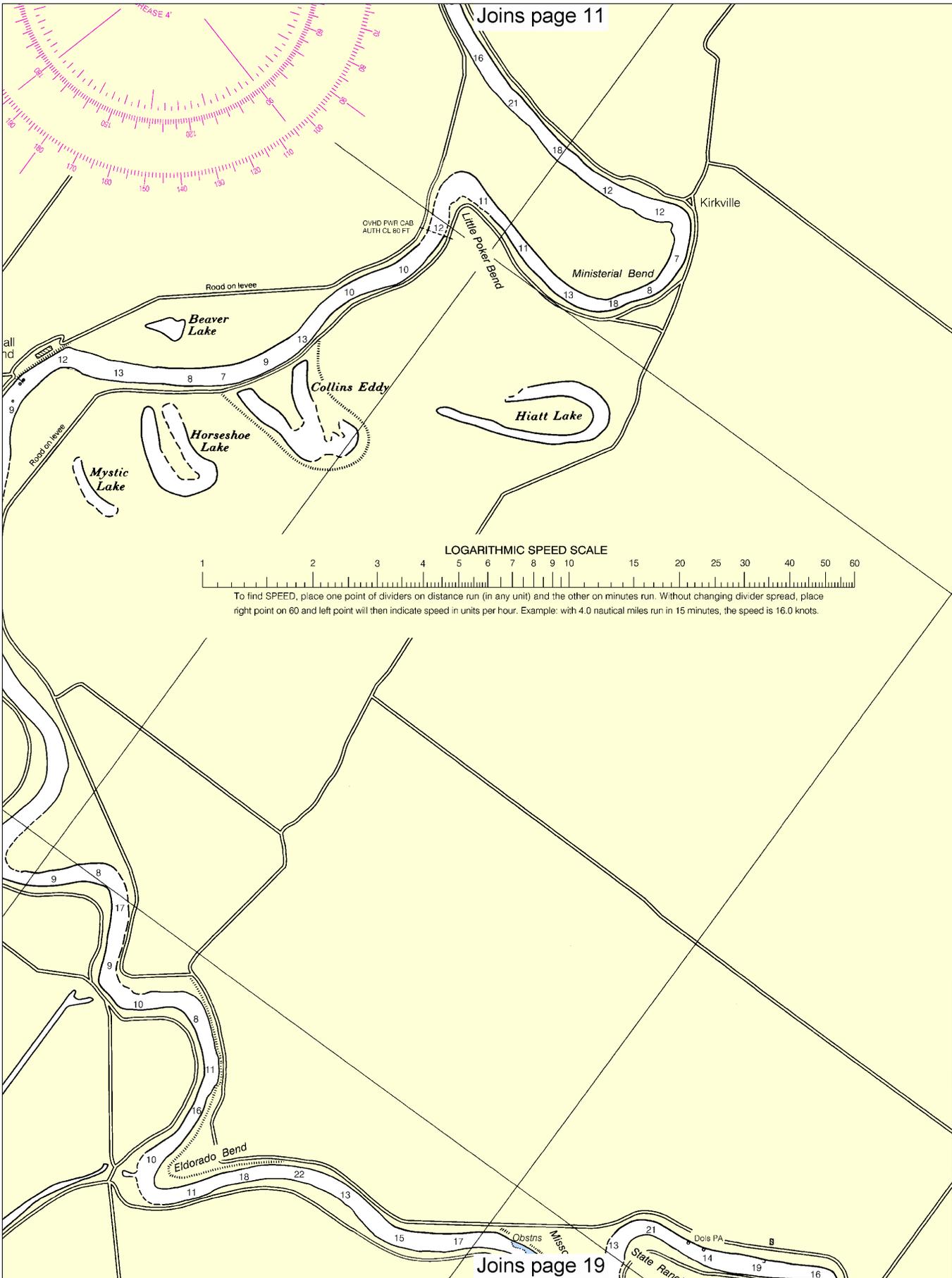
Joins page 18

14

Note: Chart grid lines are aligned with true north.



Joins page 11



LOGARITHMIC SPEED SCALE

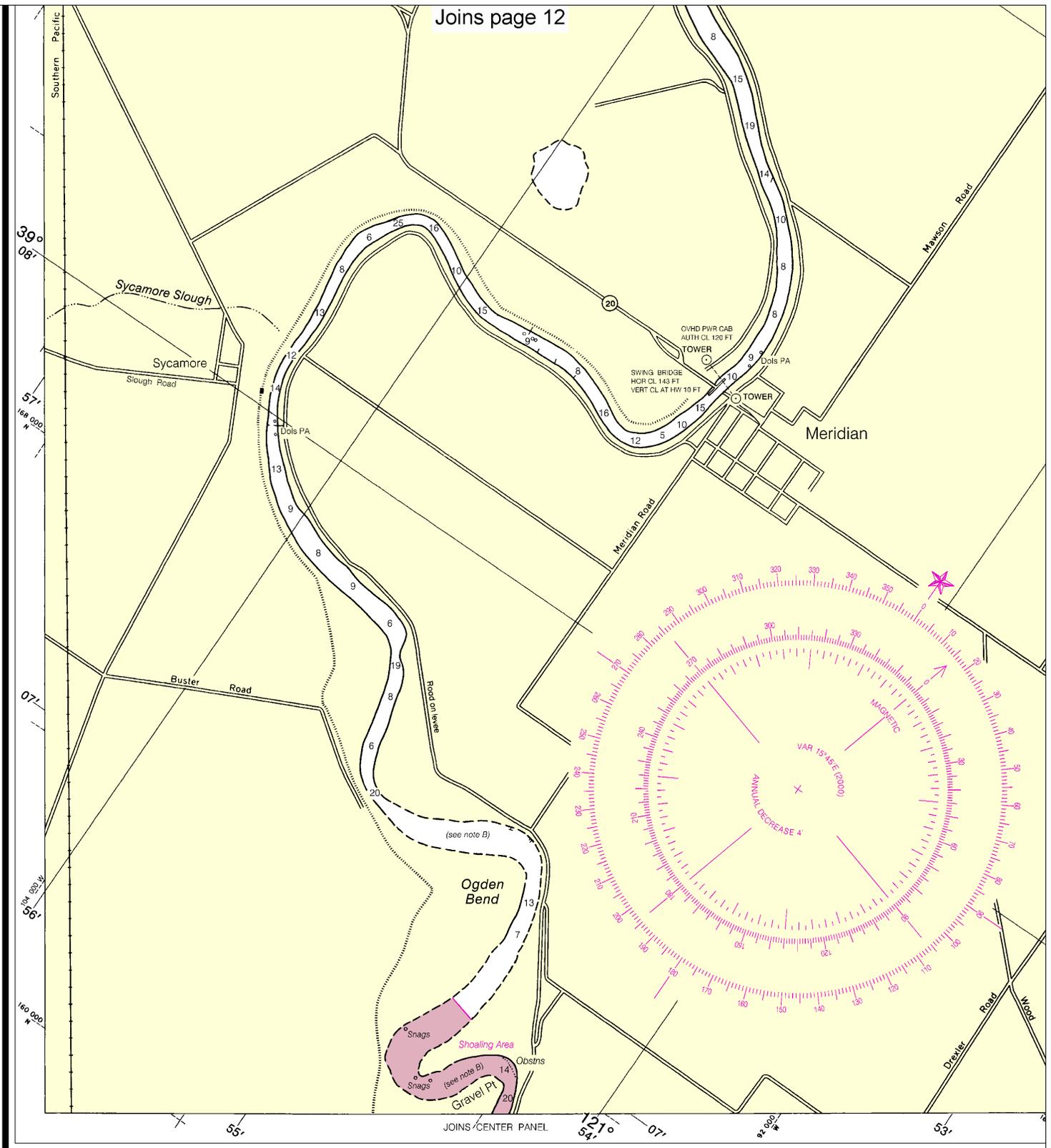


To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots.

Joins page 19

47'  
55'  
121°  
46'  
54'  
53'  
45'

Joins page 12



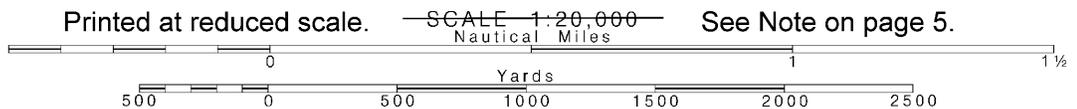
12th Ed., Aug. 26/00  
**18667**

**CAUTION**  
 This chart has been corrected from the Notice to Mariners published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

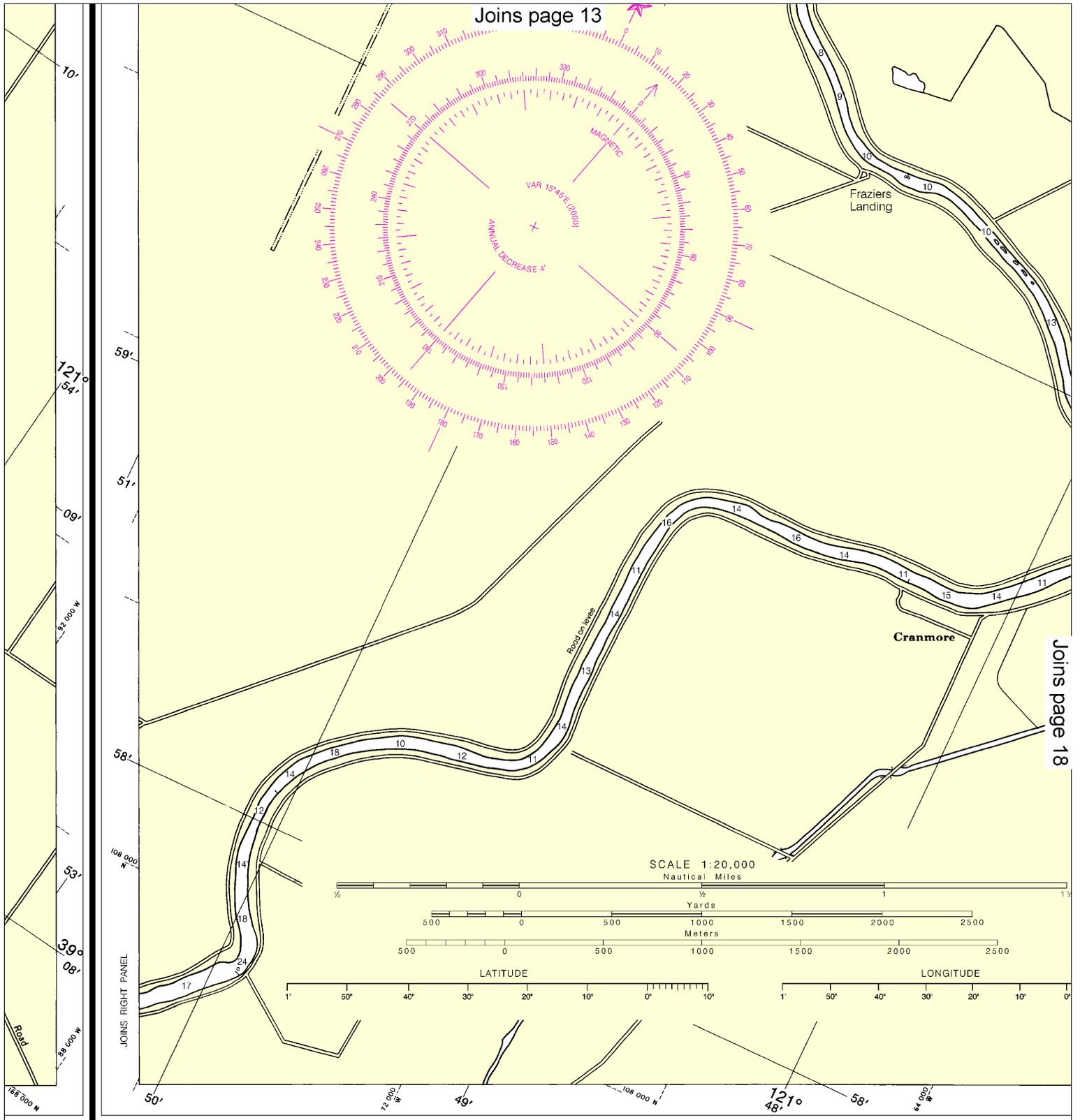
**SOUNDINGS IN FEET**

**16**

Note: Chart grid lines are aligned with true north.



Joins page 13

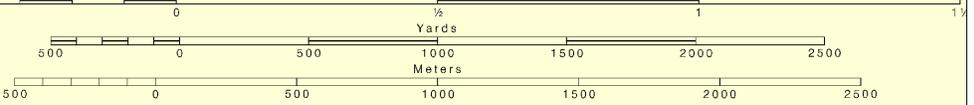


Fraziers Landing

Cranmore

Joins page 18

SCALE 1:20,000  
Nautical Miles



LATITUDE

LONGITUDE

OUR SEAS AND OUR SKIES



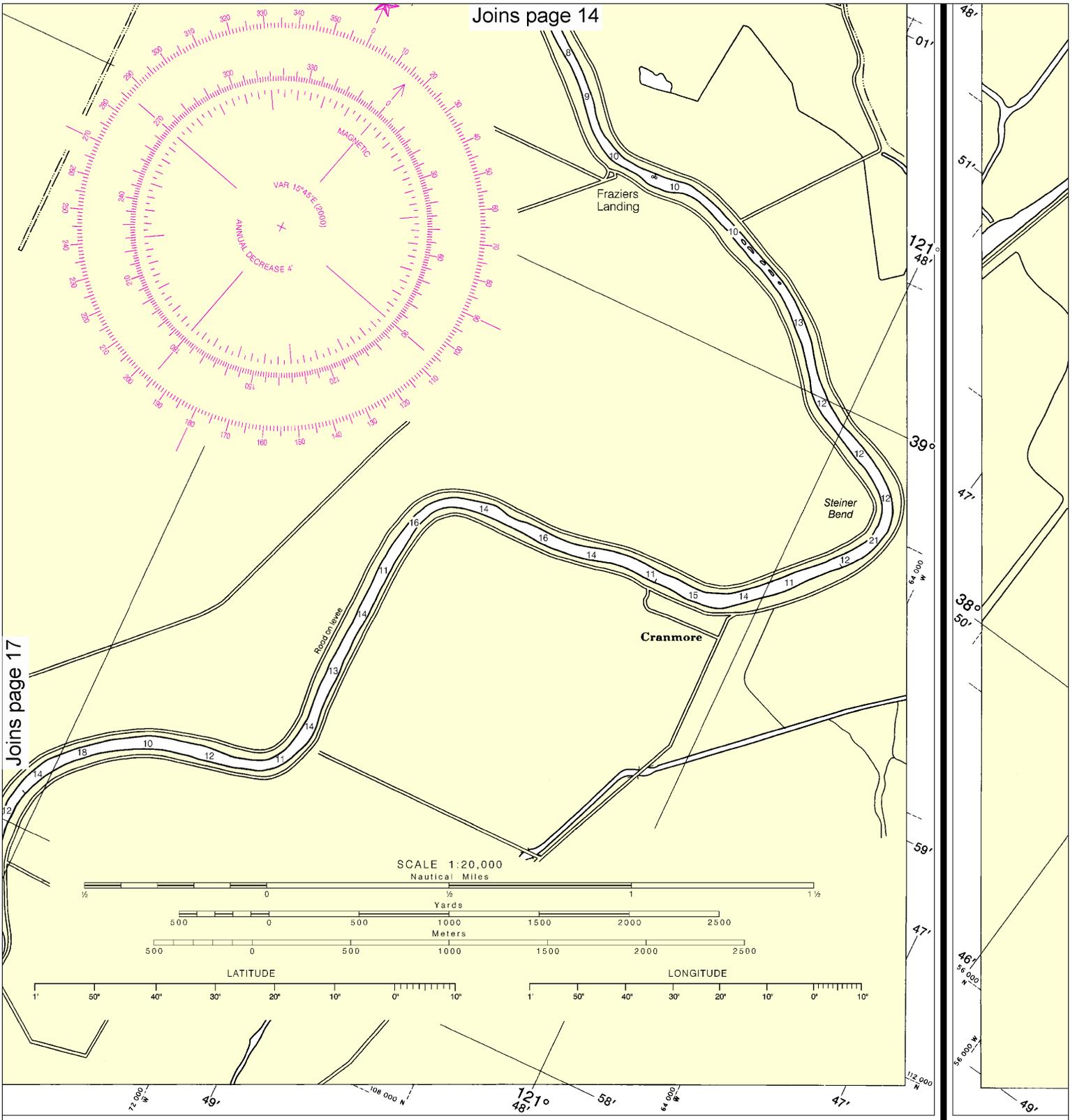
OF EXCELLENCE AT NOAA

Published at Washington, D.C.  
 U.S. DEPARTMENT OF COMMERCE  
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
 NATIONAL OCEAN SERVICE  
 COAST SURVEY

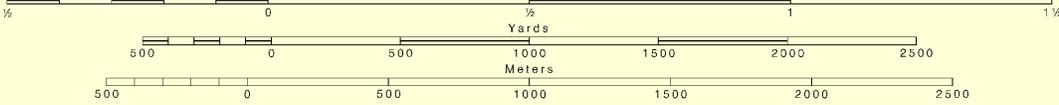
The prudent mariner should consult the latest editions of the U.S. Coast and Geodetic Survey charts and U.S. Coast and Geodetic Survey publications.

Joins page 14

Joins page 17



SCALE 1:20,000  
Nautical Miles



LATITUDE

LONGITUDE

OUR SEAS AND OUR SKIES



OF EXCELLENCE AT NOAA

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

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.

FATH
FEE
METE

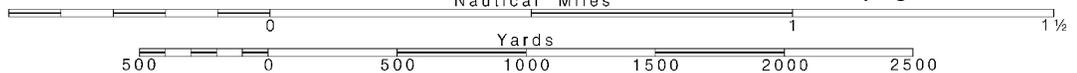
18

Note: Chart grid lines are aligned with true north.

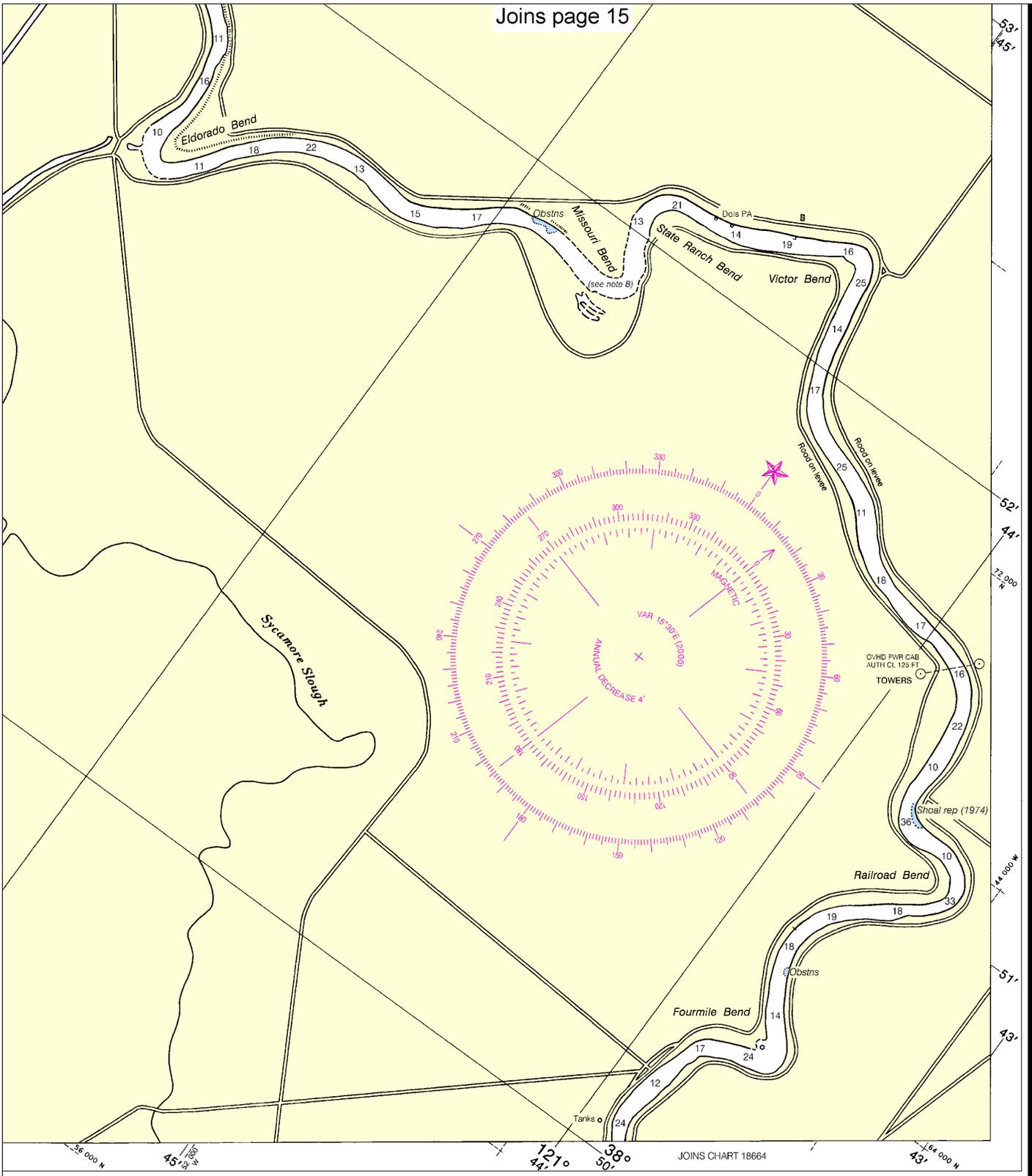
Printed at reduced scale.

SCALE 1:20,000  
Nautical Miles

See Note on page 5.



Joins page 15



JOINS CHART 18664

(Fourmile Bend to Colusa)  
SOUNDINGS IN FEET - SCALE 1:20,000

18667

HOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17														
EET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102														
TERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31





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 and 78A** – Recreational boat channels.

**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.

### Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

**HAVE ALL PERSONS PUT ON LIFE JACKETS!**



**NOAA Weather Radio All Hazards (NWR)** is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

<http://www.nws.noaa.gov/nwr/>

### Quick References

- Nautical chart related products and information — <http://www.nauticalcharts.noaa.gov>
- Online chart viewer — <http://www.nauticalcharts.noaa.gov/mcd/NOAChartViewer.html>
- Report a chart discrepancy — <http://ocsddata.ncd.noaa.gov/idrs/discrepancy.aspx>
- Chart and chart related inquiries and comments — <http://ocsddata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs>
- Chart updates (LNM and NM corrections) — [http://www.nauticalcharts.noaa.gov/mcd/updates/LNM\\_NM.html](http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html)
- Coast Pilot online — <http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm>
- Tides and Currents — <http://tidesandcurrents.noaa.gov>
- Marine Forecasts — <http://www.nws.noaa.gov/om/marine/home.htm>
- National Data Buoy Center — <http://www.ndbc.noaa.gov/>
- NowCoast web portal for coastal conditions — <http://www.nowcoast.noaa.gov/>
- National Weather Service — <http://www.weather.gov/>
- National Hurricane Center — <http://www.nhc.noaa.gov/>
- Pacific Tsunami Warning Center — <http://ptwc.weather.gov/>
- Contact Us — <http://www.nauticalcharts.noaa.gov/staff/contact.htm>



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This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

