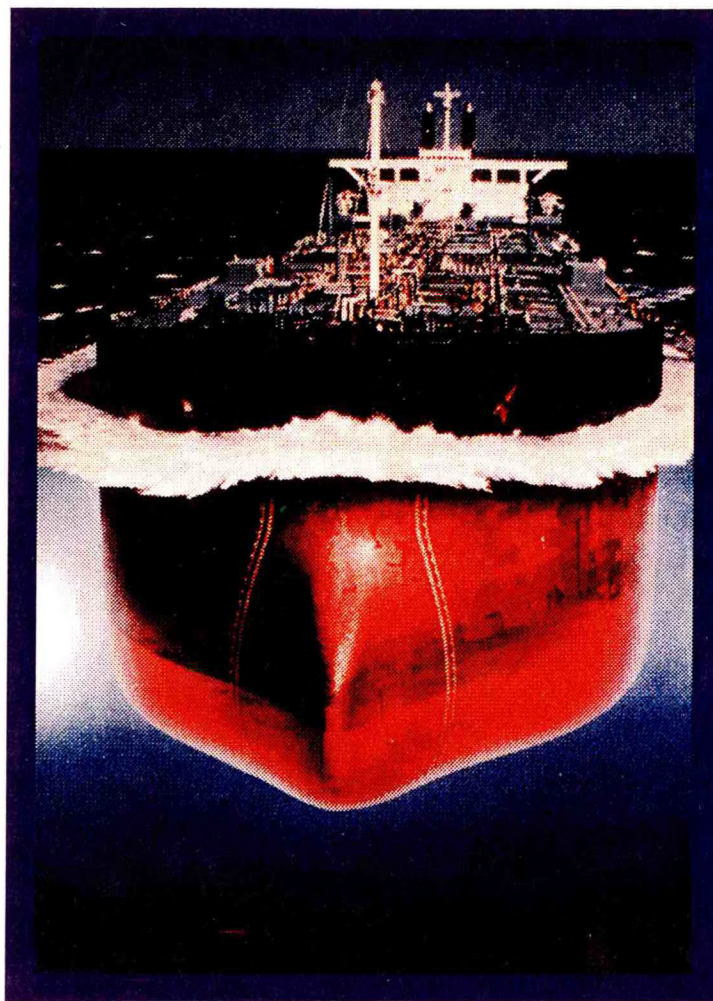


VK
597
.U5
N3
2nd ed.
1996

The Nautical Charting Plan

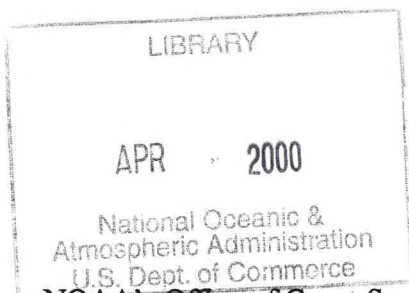


Nautical Charts play a key role
in providing safe passage...



*U.S. Department of Commerce
National Oceanic and Atmospheric Administration*

February 1996 Edition



VK
597
.45
N3
2nd ed.
1996

**Office of Coast Survey
Nautical Charting Plan
Second Edition: February 1996**

NOAA's Office of Coast Survey has developed a nautical chart maintenance plan to provide priority support to marine commerce. The Coast Survey is placing the nautical charts covering the major U.S. ports on an accelerated updating and publication schedule to provide mariners with the most current information.

The Coast Survey has operated under severe resource constraints during the past several years. With reduced resources, the Coast Survey is compelled to prioritize every element of its budget, including the scheduling and printing of new editions of nautical charts. To maintain the suite of nautical charts in a state of currency requires the annual publication of approximately 400 new editions. Resource levels for Fiscal Year 1996 will sustain the compilation, engraving, printing, and distribution costs for only 250 new nautical chart editions, slightly more than one-half of what is required to properly maintain the entire chart suite.

The Coast Survey has designed a priority scheme to support the marine transportation infrastructure as well as possible with the available resources. The charts that support the busiest commercial ports and trade routes will be published more frequently in order to reflect changing conditions. This publication schedule has been developed to assure data currency and to prevent an excessive accumulation of Notice to Mariners corrections to be applied by the mariner. Charts of lower priority areas will be published less frequently than now scheduled.

The number of charts required to support all U.S. ports exceeds the annual production capacity of the Coast Survey at the chart publication frequency required. Therefore, a new production model was developed that allocates the Coast Survey chart production resources to the highest ranked ports. The charts to support the largest commercial ports and trade routes were chosen by analyzing data that rank U.S. ports both by tonnage and value of goods moving through them. While this model does not support all ports on either the tonnage or value listings, it does:

- o Include 62% of the ports ranked by tonnage of goods and accounts for 91% of the total tonnage handled in all U.S. ports and harbors.
- o Include approximately 50% of the ports ranked by value of goods and accounts for 98% of the total value of goods handled in all U.S. ports and harbors.
- o Support major ports of call within the continental U.S. that are visited by the cruise line industry.
- o Support the Coast Survey priority scheme for hydrographic surveying and coincide with the most current and planned hydrographic survey activity.
- o Include those areas where the most frequent and critical changes occur.

Some additional areas of charting importance are not directly associated with a particular port. Examples of these types of areas are coastal sea routes and cruise ship operating areas. Some of these areas, formerly considered remote, have never been adequately surveyed, and are now being comprehensively surveyed for the first time. As these new surveys are completed, the affected charts are being updated on a priority basis.

Physical Oceanographic Real-Time Systems (PORTS) allow ships to access real-time data from instruments that measure currents, water levels (tides), winds, waves, temperatures, and salinity. PORTS, by providing the accurate water level and current information that pilots need to avoid ship groundings and collisions, also allows shippers to recognize conditions suitable for additional loading of goods. PORTS are operational in Tampa Bay, New York Harbor, San Francisco Bay, and Galveston Bay.

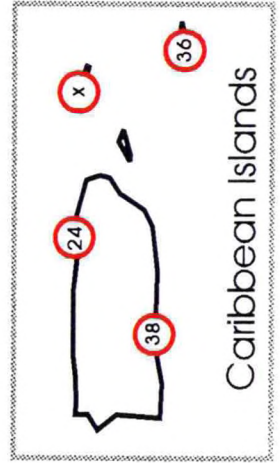
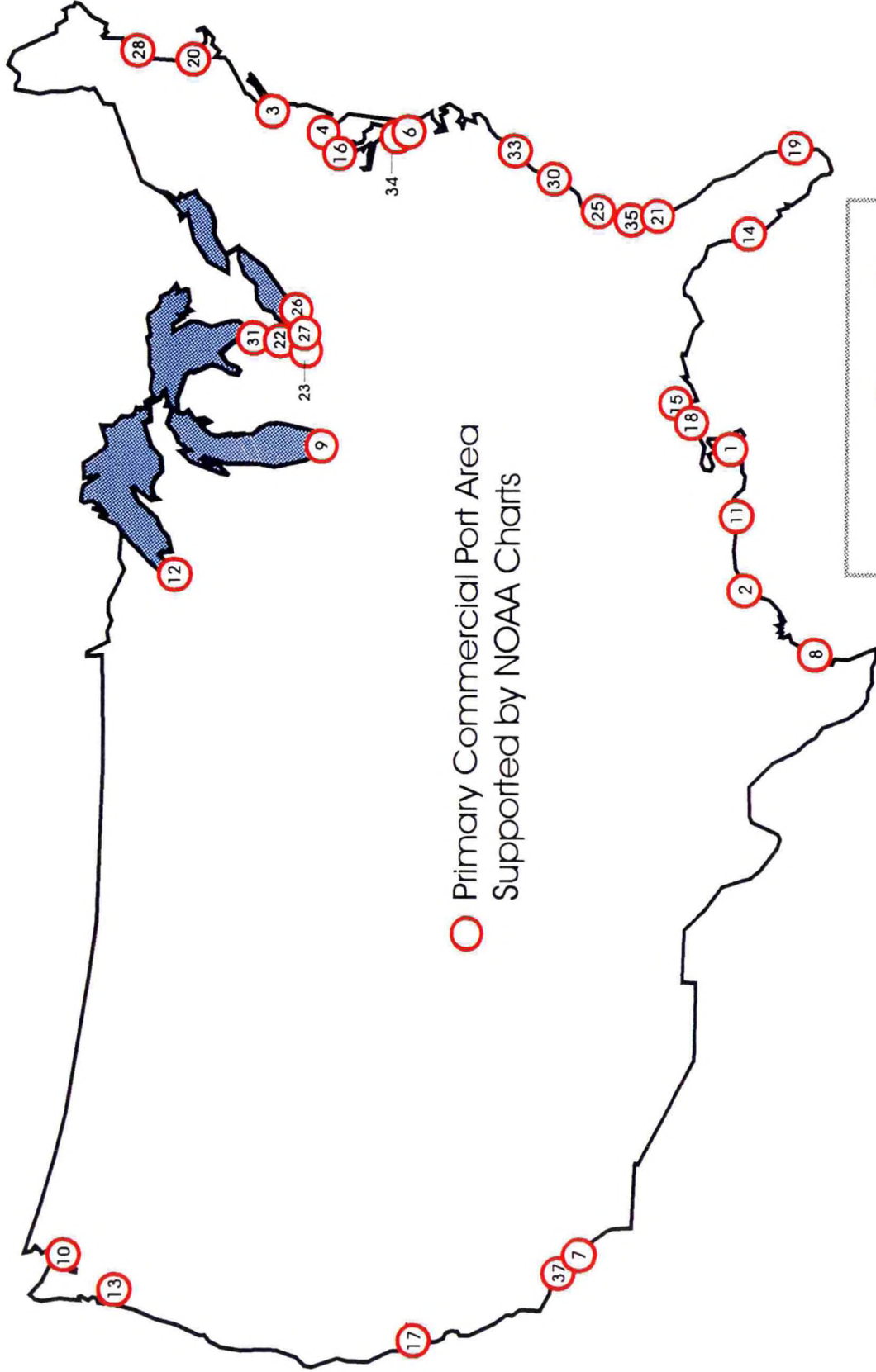
The second edition of this charting plan includes the following changes:

- o Additional information on planned hydrographic surveys.
- o New information on planned photogrammetric shoreline surveys.
- o The addition of charts 12327, 19362, and 25649.
- o The deletion of chart 19351.
- o The addition of the PORTS locations.

The following pages graphically portray the nautical charts necessary for minimal navigational support of major commercial ports that have been placed on the accelerated publication schedule. Also portrayed are not only those areas where hydrographic surveys are planned for 1996-1998, but also areas where the acquisition of shoreline photography has been planned between 1996 and 2000.

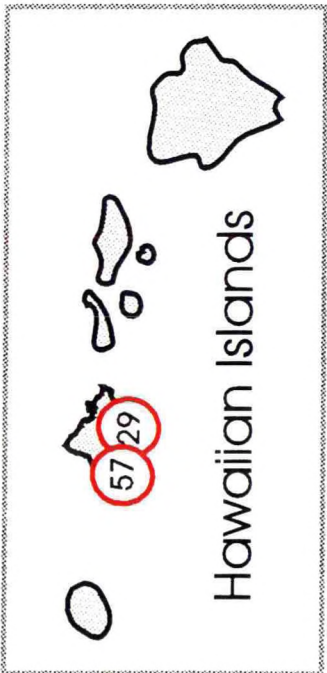
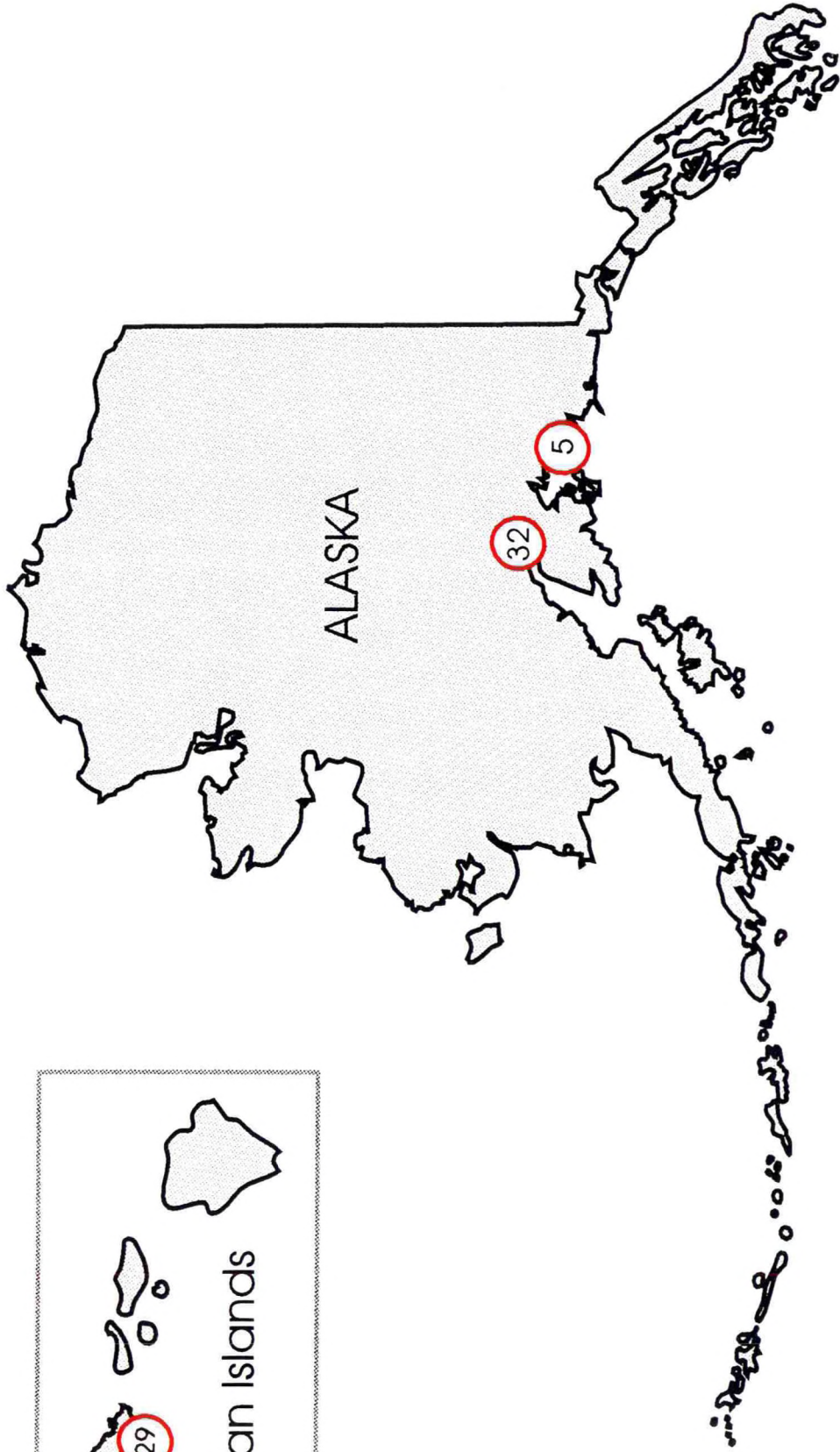


Coast Survey





Coast Survey



○ Primary Commercial Port Area
Supported by NOAA Charts

MAJOR PORT CITIES and SATELLITE PORTS

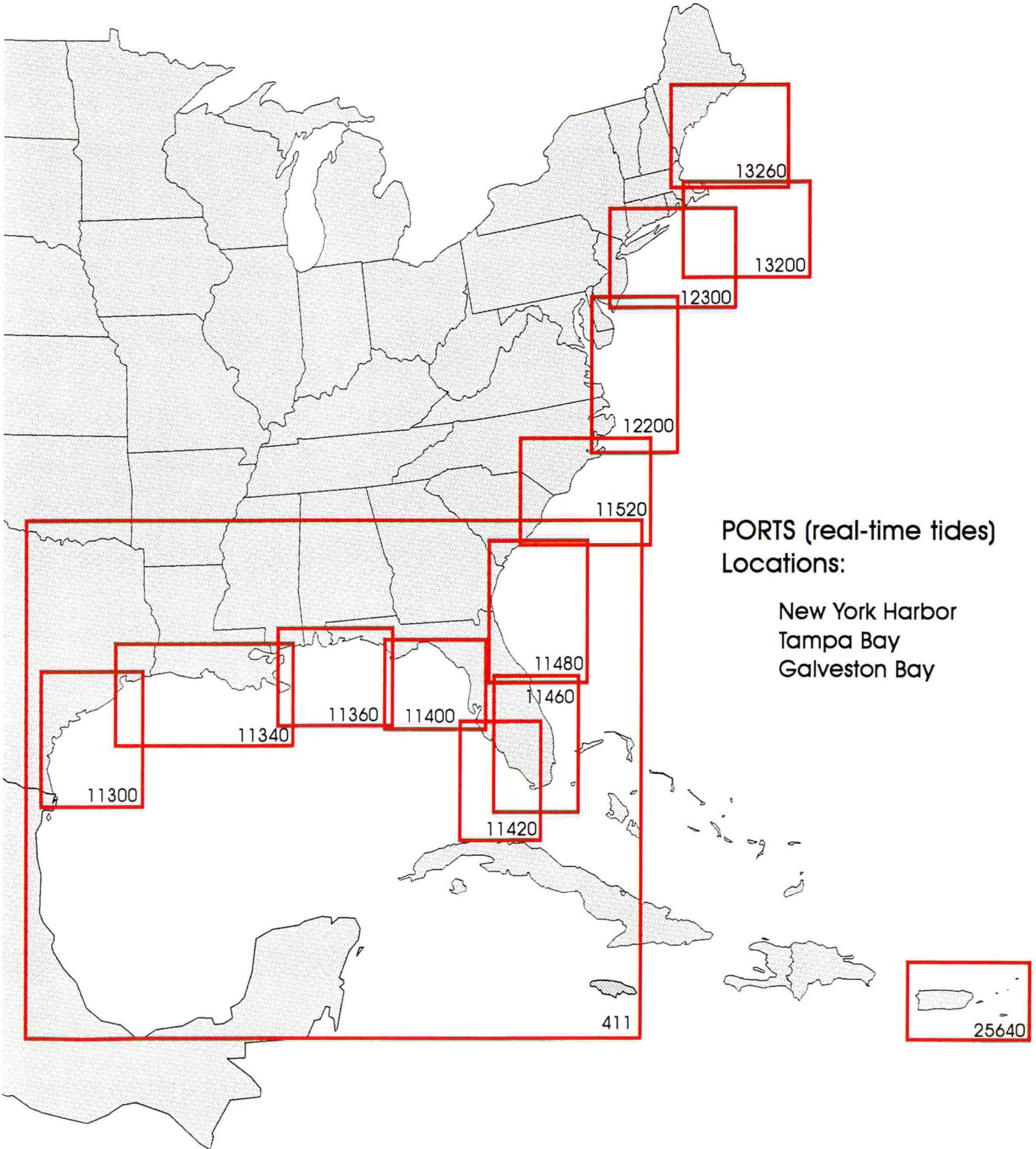
(grouped by location; ranked by total cargo tonnage)

<u>RANK</u>	<u>PORT AREAS</u>	<u>RANK</u>	<u>PORT AREAS</u>	<u>RANK</u>	<u>PORT AREAS</u>
1	Port of South LA, LA Baton Rouge, LA New Orleans, LA Plaquemine, LA Morgan City, LA Avondale, LA	12	Duluth/Superior, MN/WI Two Harbors, MN Silver Bay, MN Drummond Island, MI Sault Ste. Marie, MI	26	Cleveland, OH
2	Houston, TX Texas City, TX Freeport, TX Galveston, TX	13	Portland, OR Vancouver, WA Kalama, WA Longview, WA Astoria, OR	27	Lorain, OH
3	Port of NY/NJ	14	Tampa, FL Manatee, FL St. Petersburg, FL	28	Portland, ME
4	Philadelphia, PA Marcus Hook, PA Paulsboro, PA New Castle, DE Camden, NJ Wilmington, DE Chester, PA	15	Mobile, AL	29	Honolulu, HI
5	Valdez, AK	16	Baltimore, MD	30	Charleston, SC
6	Norfolk, VA Newport News, VA	17	Richmond, CA Oakland, CA San Francisco, CA Carquinez Strait, CA Martinez, CA Selby, CA Alameda, CA San Pablo Bay, CA	31	St. Clair, MI Marine City, MI Port Huron, MI
7	Long Beach, CA Los Angeles, CA	18	Pascagoula, MS Biloxi, MS Gulfport, MS	32	Nikiski, AK Anchorage, AK
8	Corpus Christi, TX Matagorda, TX Victoria, TX Brownsville, TX Port Lavaca, TX	19	Port Everglades, FL Miami, FL Palm Beach, FL Ft. Lauderdale, FL	33	Wilmington, NC
9	Chicago, IL Indiana Harbor, IL Burns Int'l Harbor, IN Gary, IN Port Inland, MI Buffington, IN East Chicago, IN	20	Boston, MA New Bedford, MA	34	Richmond, VA Hopewell, VA
10	Seattle, WA Tacoma, WA Anacortes, WA	21	Jacksonville, FL	35	Brunswick, GA
11	Port Arthur, TX Beaumont, TX Orange, TX Lake Charles, LA	22	Detroit, MI	36	Christiansted, St. Croix, USVI
		23	Toledo, OH Monroe, MI	37	Ventura, CA Port Hueneme, VA
		24	San Juan, PR	38	Ponce, PR
		25	Savannah, GA	57	Barbers Pt, HI
				X	Charlotte Amalie, St. Thomas, USVI

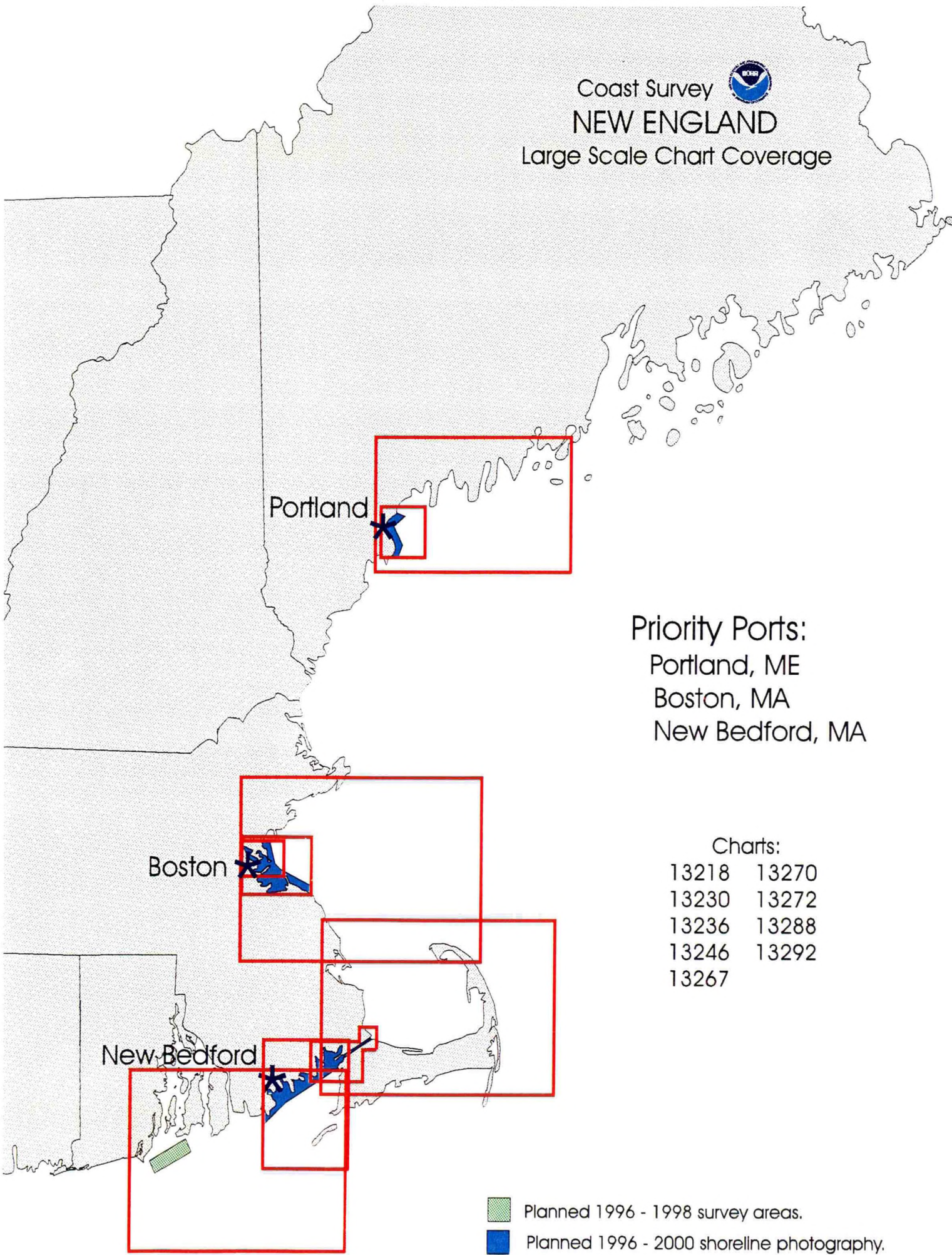


EAST AND GULF COAST STATES

Small Scale Chart Coverage





Coast Survey 
NEW ENGLAND
Large Scale Chart Coverage



Priority Ports:
Portland, ME
Boston, MA
New Bedford, MA

Charts:

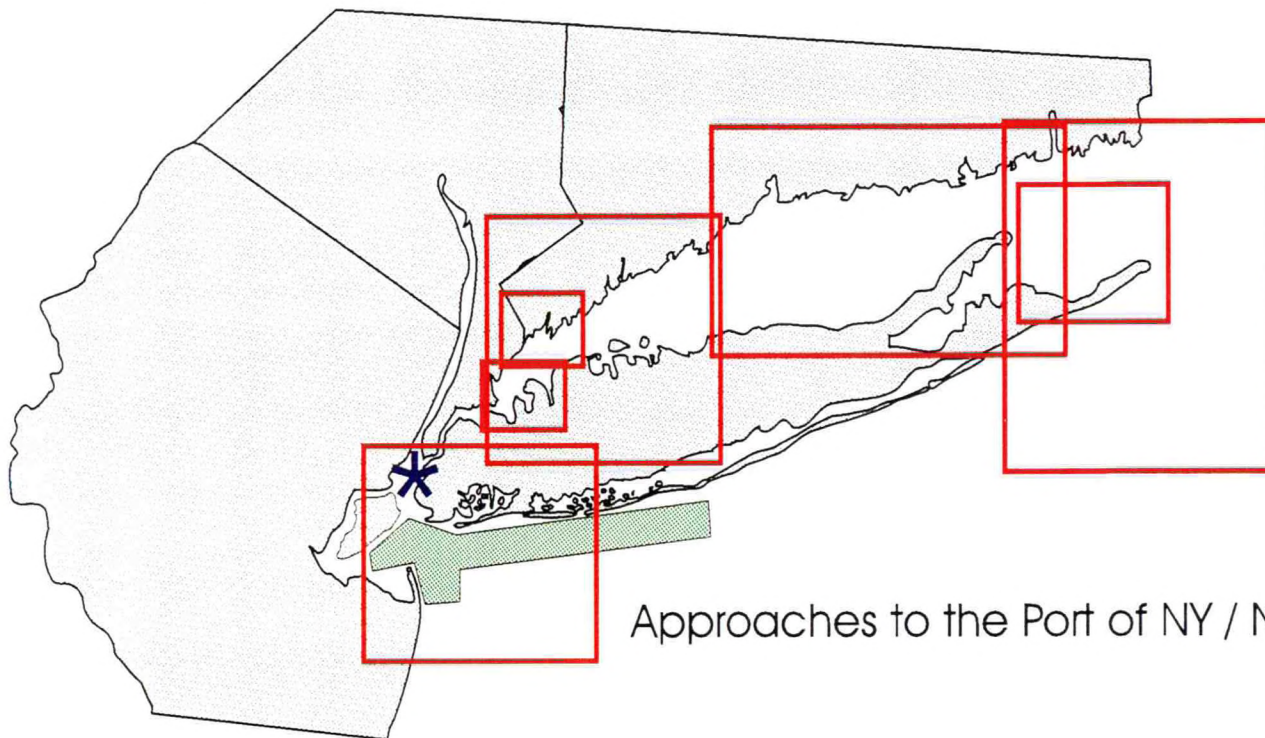
- 13218 13270
- 13230 13272
- 13236 13288
- 13246 13292
- 13267

 Planned 1996 - 1998 survey areas.
 Planned 1996 - 2000 shoreline photography.

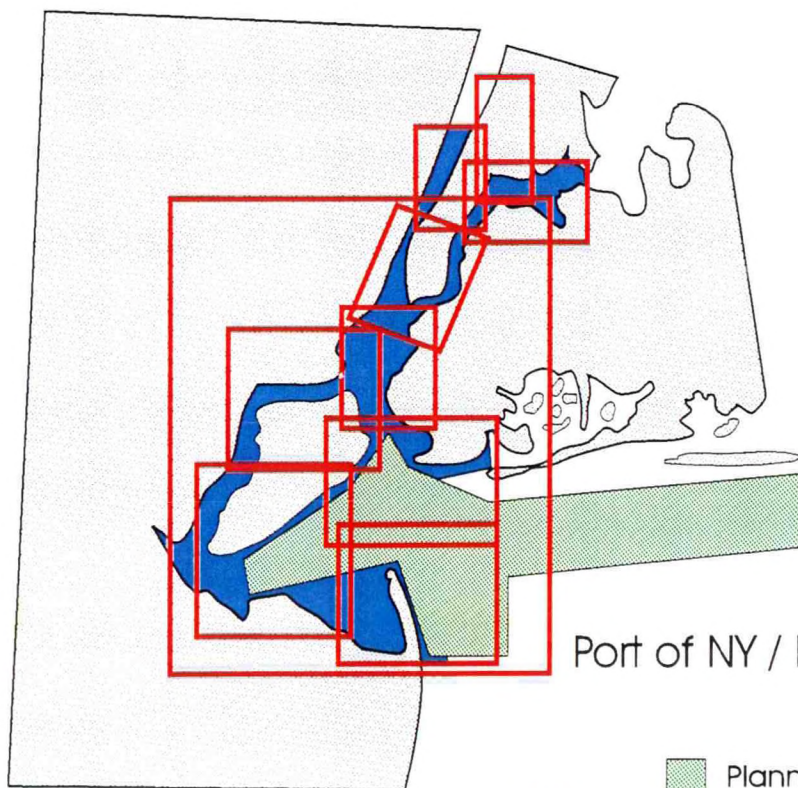


NEW YORK / NEW JERSEY

Small and Large Scale Chart Coverage



- Charts:
12326
12354
12363
12366
12367
13205
13209

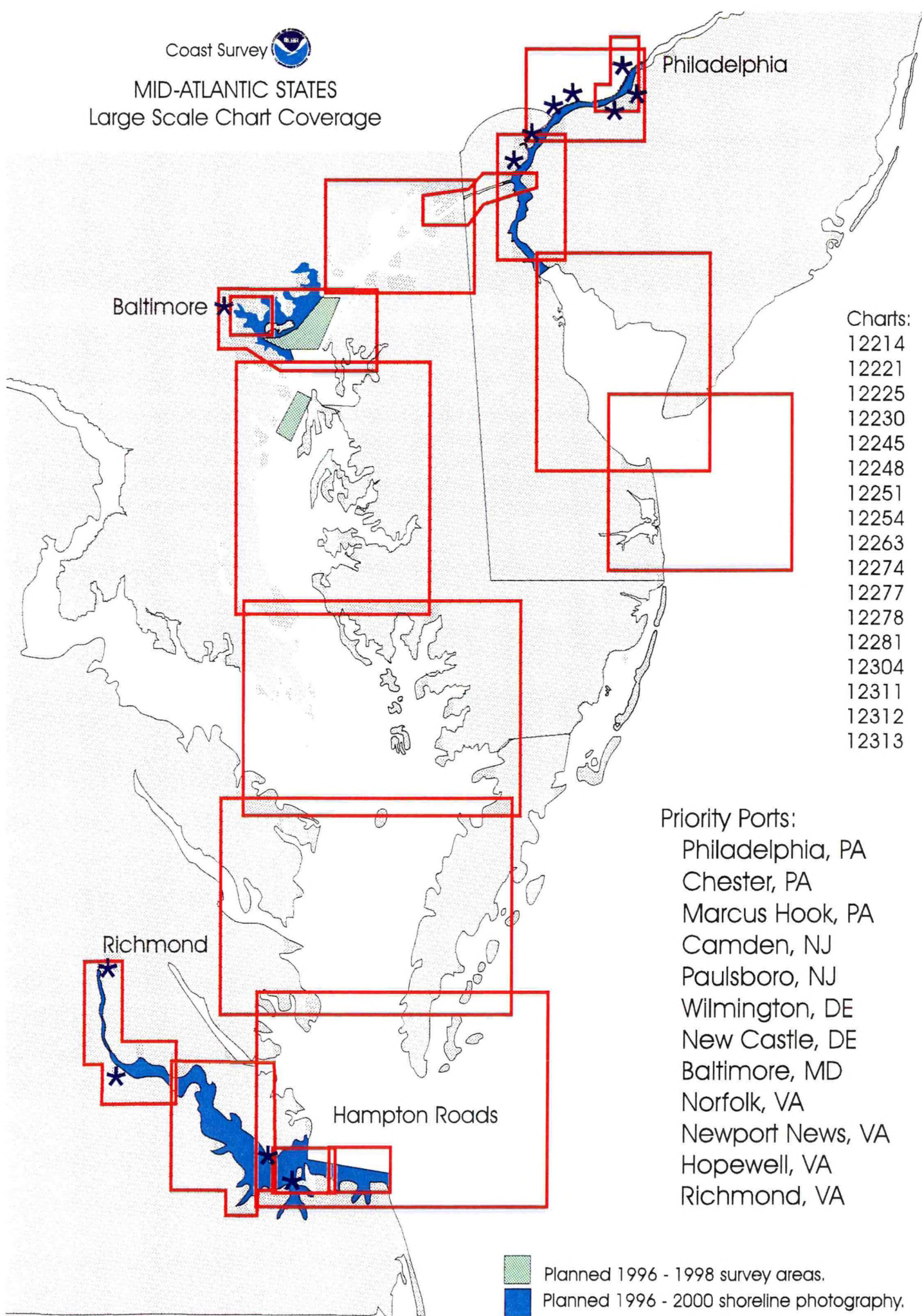


- Charts:
12327
12331
12333
12334
12335
12339
12341
12342
12401
12402

Port of NY / NJ (enlarged)

 Planned 1996 - 1998 survey areas.
 Planned 1996 - 2000 shoreline photography.

MID-ATLANTIC STATES Large Scale Chart Coverage




Charts:

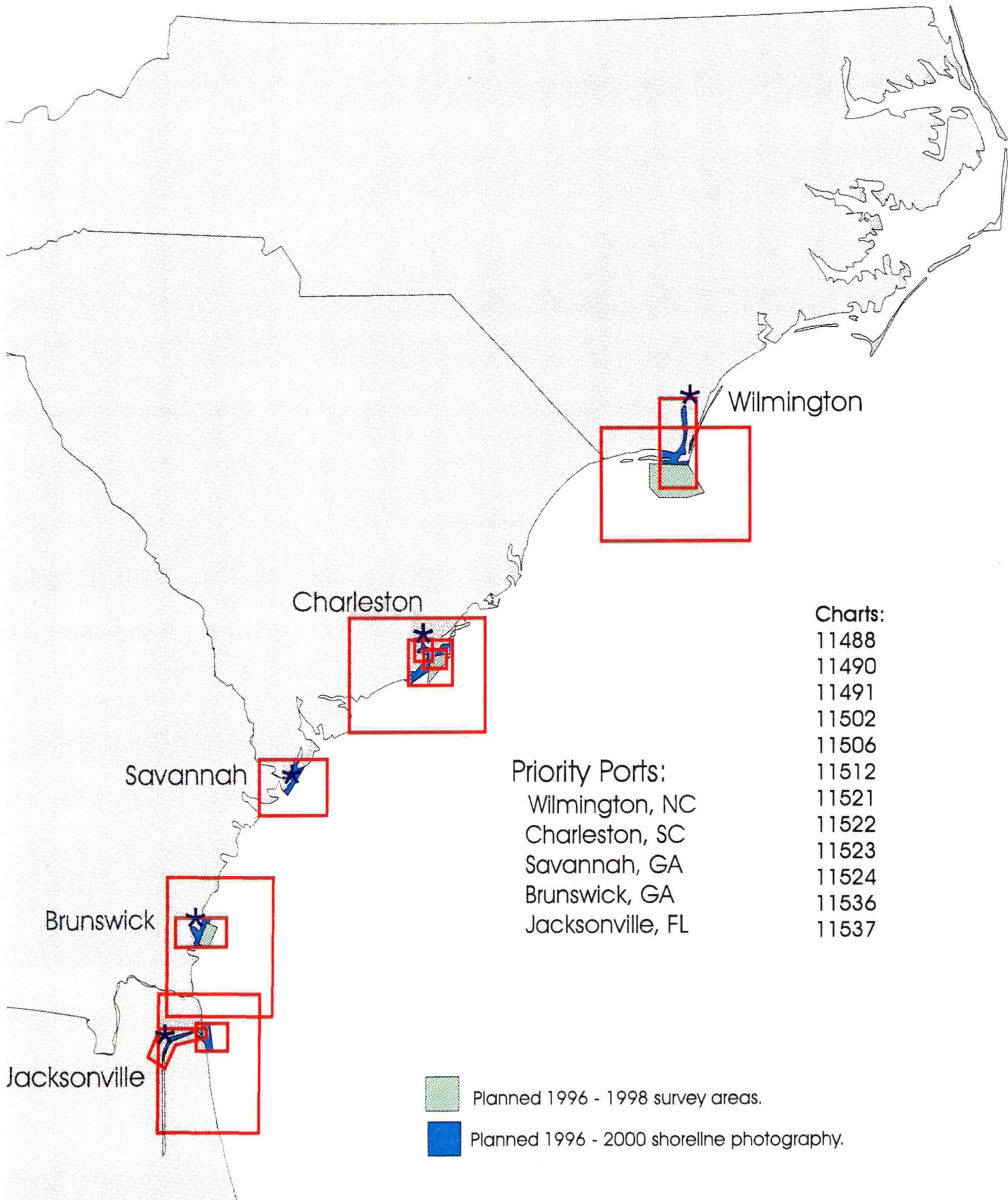
- 12214
- 12221
- 12225
- 12230
- 12245
- 12248
- 12251
- 12254
- 12263
- 12274
- 12277
- 12278
- 12281
- 12304
- 12311
- 12312
- 12313

Priority Ports:

- Philadelphia, PA
- Chester, PA
- Marcus Hook, PA
- Camden, NJ
- Paulsboro, NJ
- Wilmington, DE
- New Castle, DE
- Baltimore, MD
- Norfolk, VA
- Newport News, VA
- Hopewell, VA
- Richmond, VA

 Planned 1996 - 1998 survey areas.
 Planned 1996 - 2000 shoreline photography.

Coast Survey 
SOUTHEAST ATLANTIC
 Large Scale Chart Coverage



Charts:

- 11488
- 11490
- 11491
- 11502
- 11506
- 11512
- 11521
- 11522
- 11523
- 11524
- 11536
- 11537

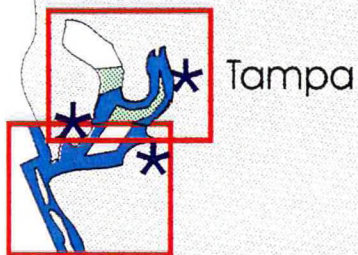
Priority Ports:

- Wilmington, NC
- Charleston, SC
- Savannah, GA
- Brunswick, GA
- Jacksonville, FL



Planned 1996 - 1998 survey areas.

Planned 1996 - 2000 shoreline photography.



Priority Ports:
Palm Beach
Ft. Lauderdale
Port Everglades
Miami
St. Petersburg
Tampa
Manatee

- Charts:
11413
11414
11439
11442
11452
11462
11465
11466
11467
11468
11470



 Planned 1996 - 1998 survey areas.

 Planned 1996 - 2000 shoreline photography.

CENTRAL GULF COAST

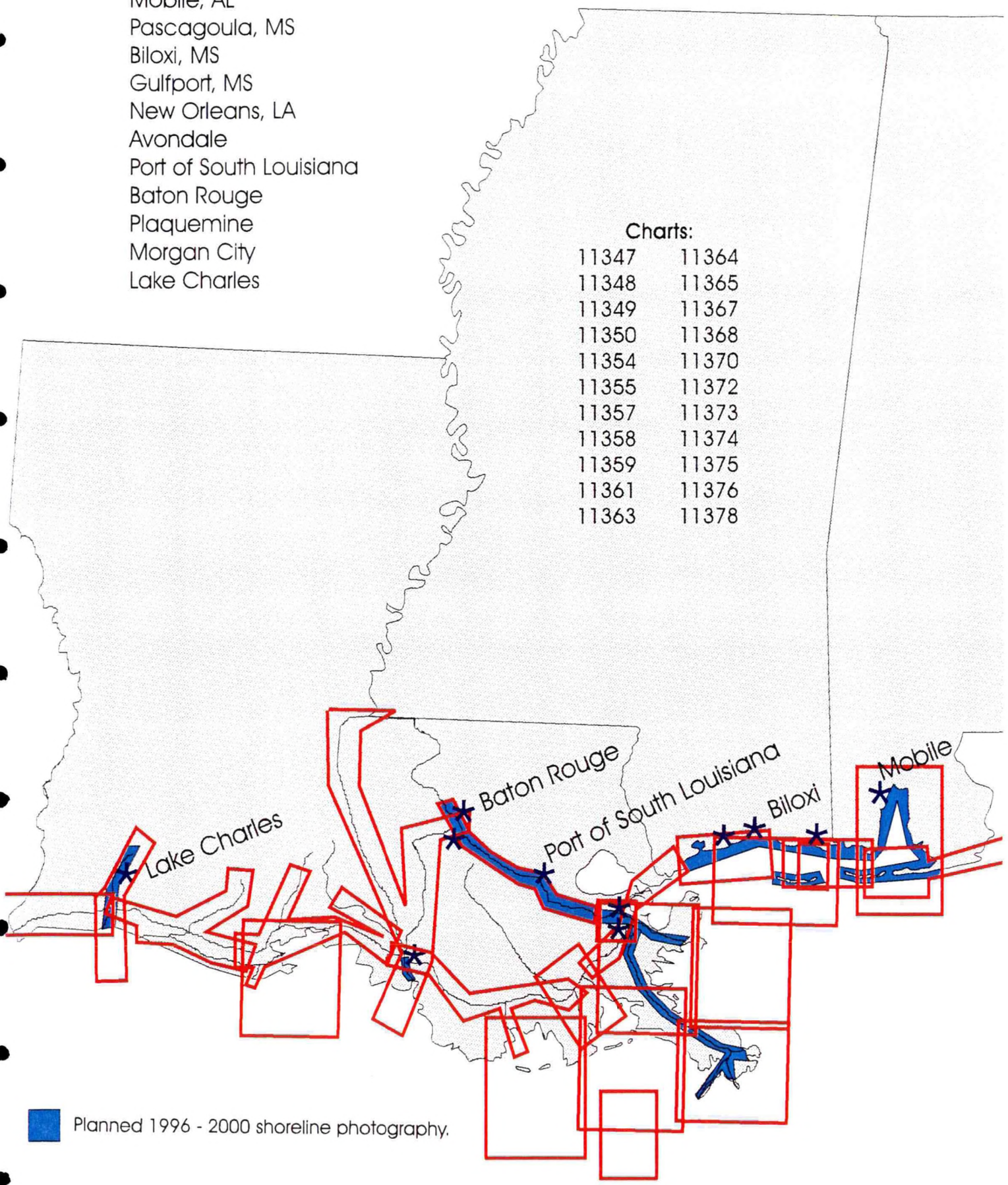
Large Scale Chart Coverage

Priority Ports:

- Mobile, AL
- Pascagoula, MS
- Biloxi, MS
- Gulfport, MS
- New Orleans, LA
- Avondale
- Port of South Louisiana
- Baton Rouge
- Plaquemine
- Morgan City
- Lake Charles

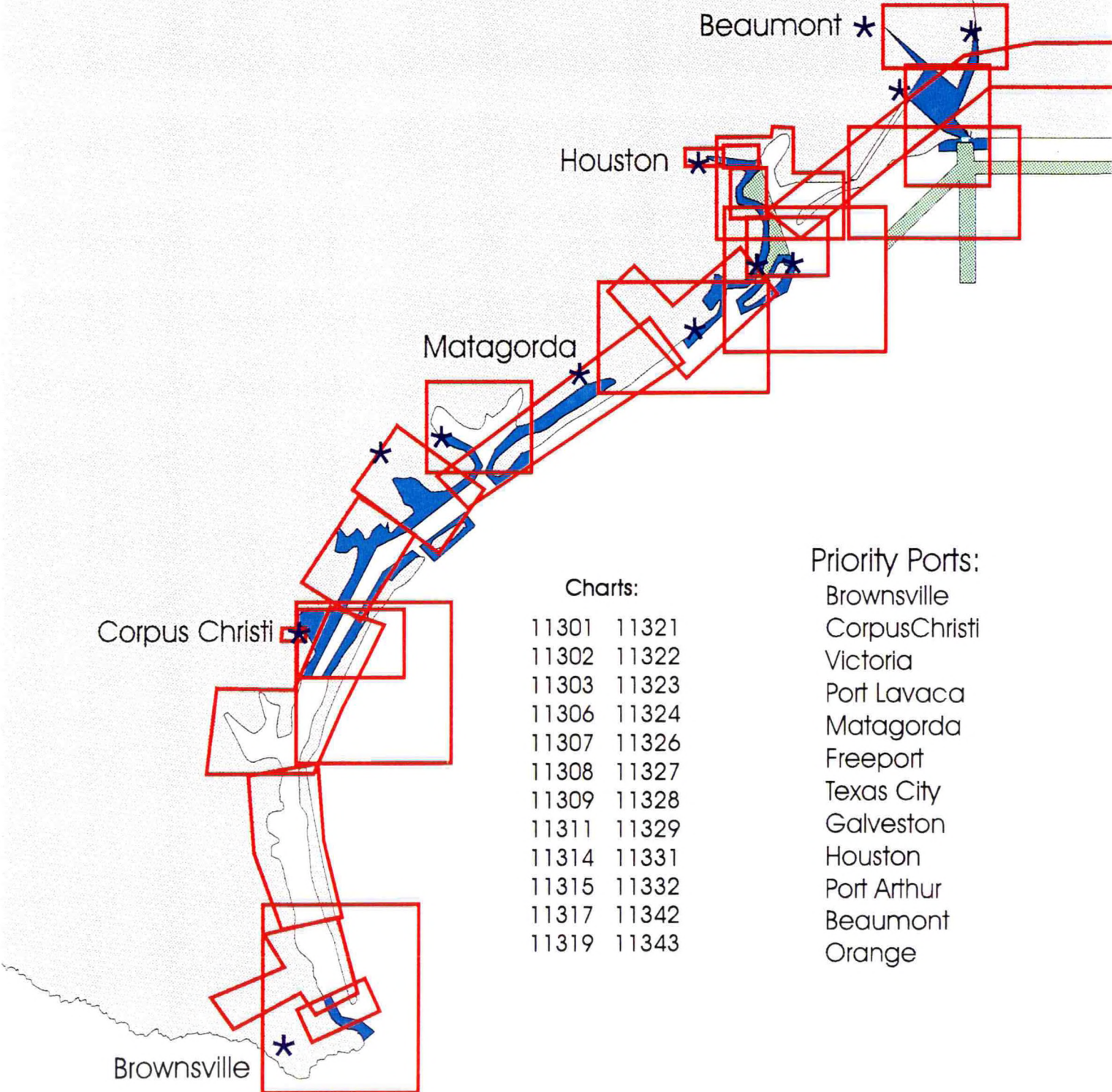
Charts:

11347	11364
11348	11365
11349	11367
11350	11368
11354	11370
11355	11372
11357	11373
11358	11374
11359	11375
11361	11376
11363	11378



 Planned 1996 - 2000 shoreline photography.


Coast Survey 
TEXAS
 Large Scale Chart Coverage




Charts:

11301	11321
11302	11322
11303	11323
11306	11324
11307	11326
11308	11327
11309	11328
11311	11329
11314	11331
11315	11332
11317	11342
11319	11343

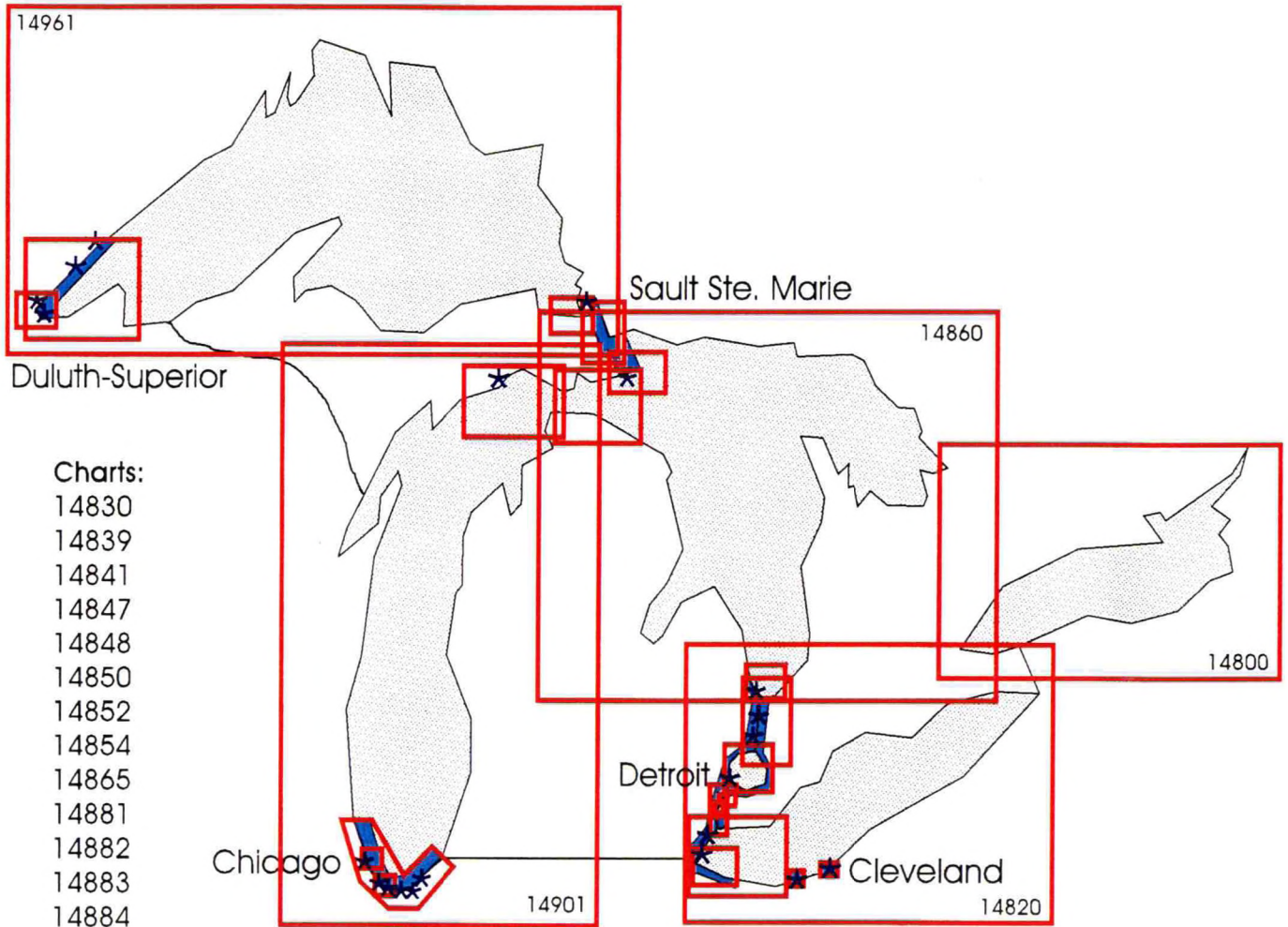
- Priority Ports:
- Brownsville
 - CorpusChristi
 - Victoria
 - Port Lavaca
 - Matagorda
 - Freeport
 - Texas City
 - Galveston
 - Houston
 - Port Arthur
 - Beaumont
 - Orange

 Planned 1996 - 1998 survey areas.

 Planned 1996 - 2000 shoreline photography.

GREAT LAKES

Small and Large Scale Chart Coverage



Charts:

- 14830
- 14839
- 14841
- 14847
- 14848
- 14850
- 14852
- 14854
- 14865
- 14881
- 14882
- 14883
- 14884
- 14911
- 14926
- 14928
- 14929
- 14966
- 14975

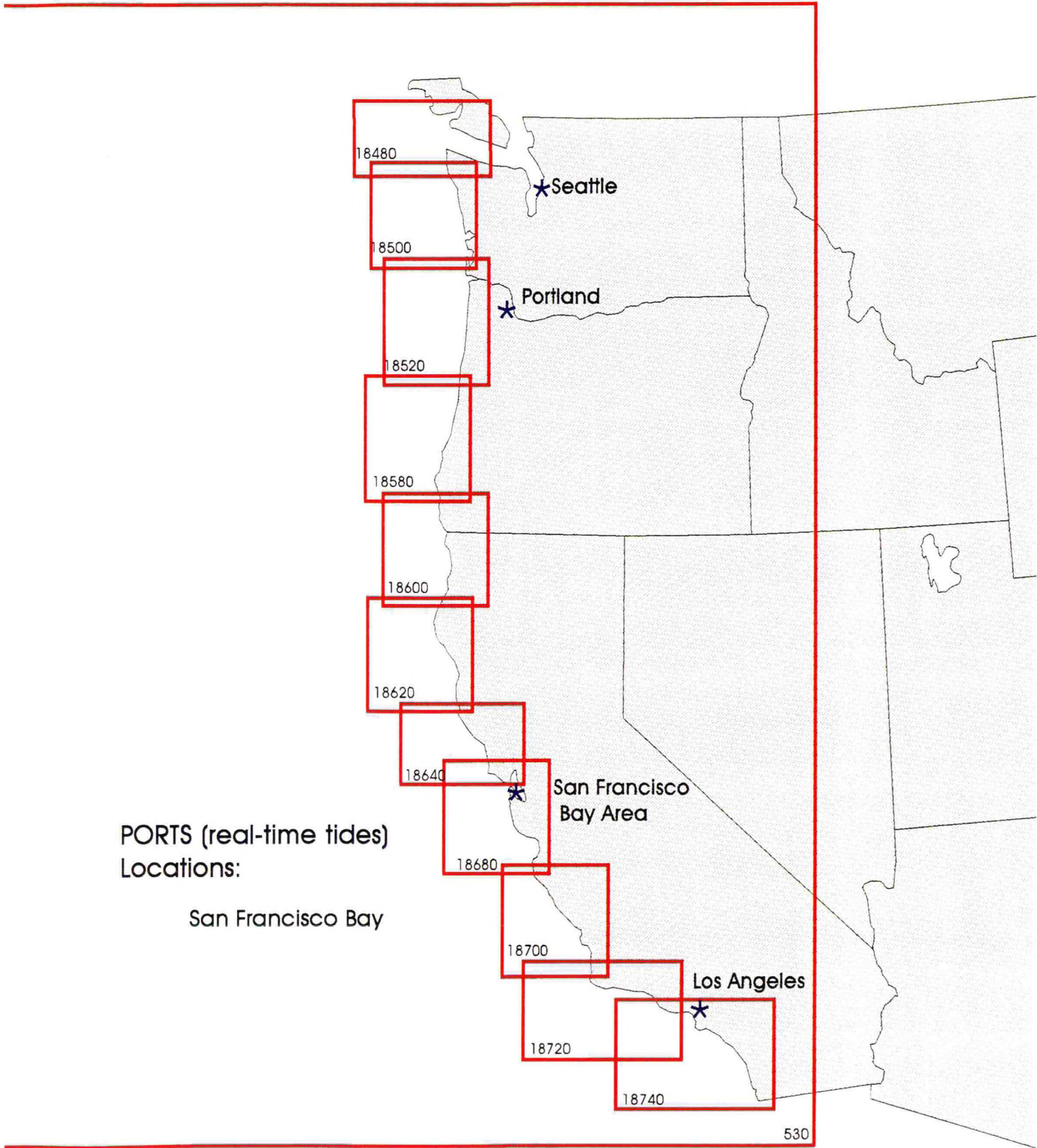
Priority Ports:

- | | |
|-----------------------|--------------------------------|
| Silver Bay Harbor, MN | Gary, IN |
| Two Harbors, MN | Burns International Harbor, IN |
| Duluth, MN | Port Huron, MI |
| Superior, WI | St. Clair, MI |
| Sault Ste. Marie, MI | Marine City, MI |
| Drummond Island, MI | Detroit, MI |
| Port Inland, MI | Monroe, MI |
| Chicago, IL | Toledo, OH |
| Indiana Harbor, IN | Lorain, OH |
| Buffington Harbor, IN | Cleveland, OH |
| East Chicago, IN | |



PACIFIC COAST

Small Scale Chart Coverage



PORTS (real-time tides)
Locations:

San Francisco Bay

CALIFORNIA

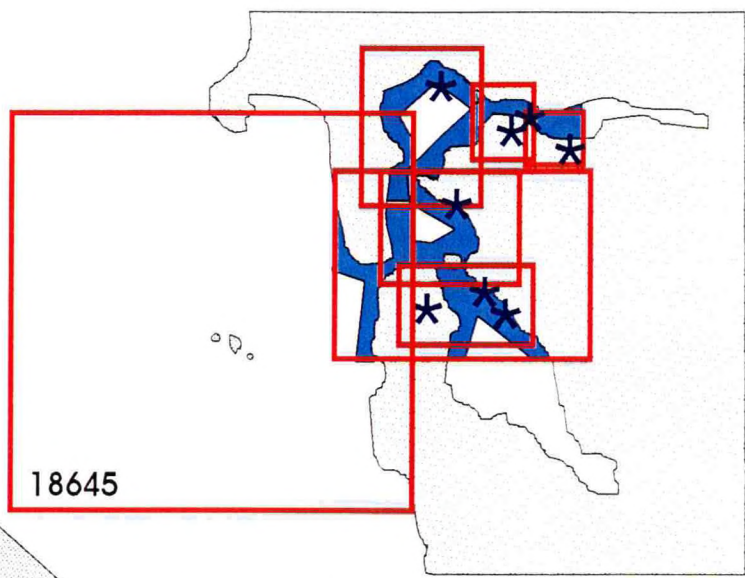
Large Scale Chart Coverage

Priority Ports:

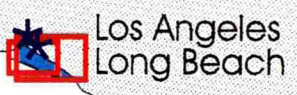
- | | |
|------------------|--------------|
| San Francisco | Martinez |
| Alameda | Oakland |
| Richmond | Ventura |
| San Pablo Bay | Port Hueneme |
| Selby | Los Angeles |
| Carquinez Strait | Long Beach |


Charts:

- | | |
|-------|-------|
| 18645 | 18655 |
| 18649 | 18657 |
| 18650 | 18725 |
| 18653 | 18749 |
| 18654 | 18751 |

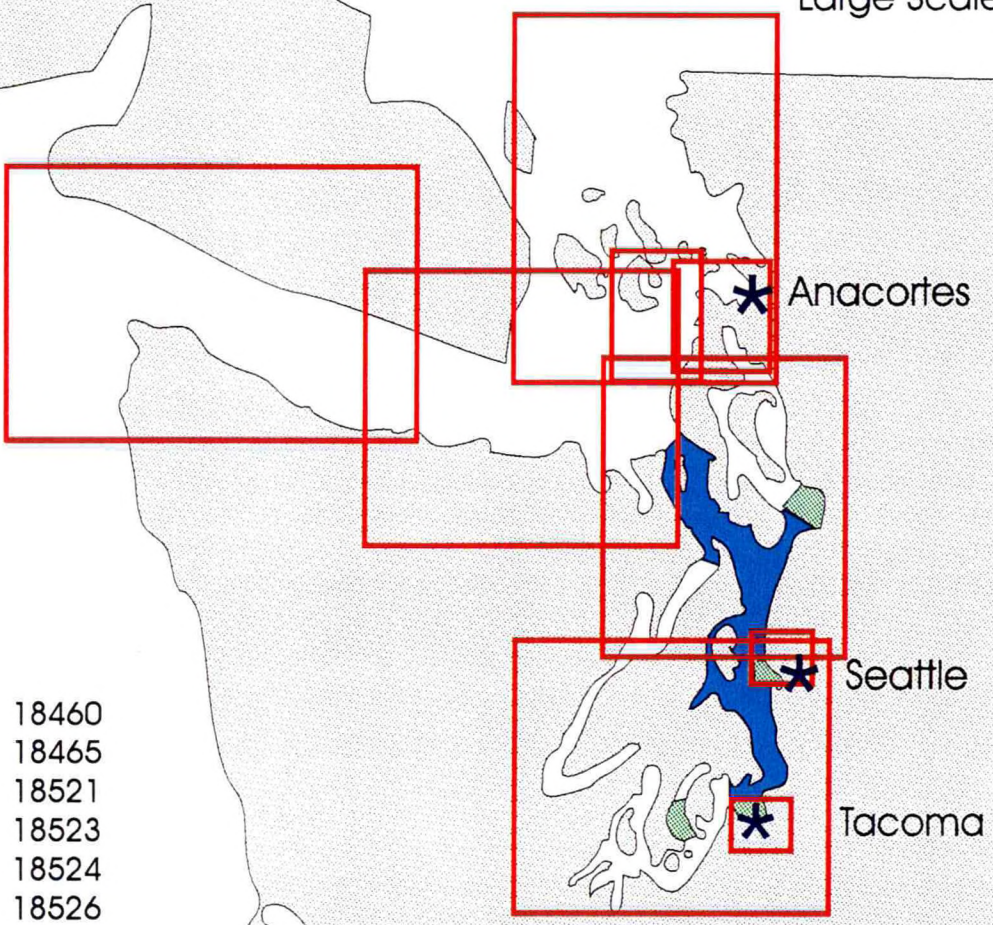


San Francisco Bay Area (enlarged)



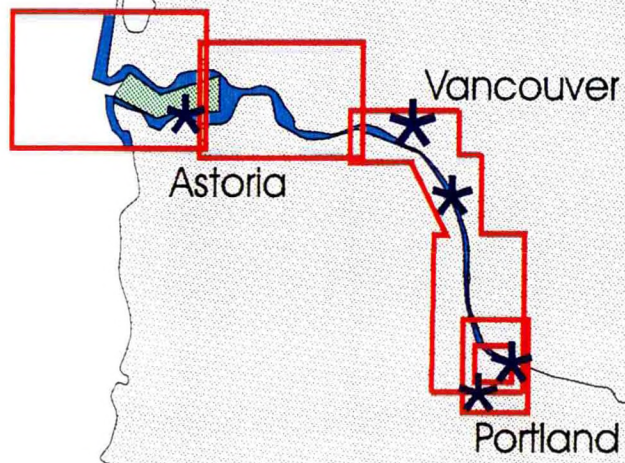
 Planned 1996 - 1998 survey areas.

 Planned 1996 - 2000 shoreline photography.



- Charts:
- | | |
|-------|-------|
| 18421 | 18460 |
| 18427 | 18465 |
| 18429 | 18521 |
| 18441 | 18523 |
| 18448 | 18524 |
| 18450 | 18526 |
| 18453 | 18527 |

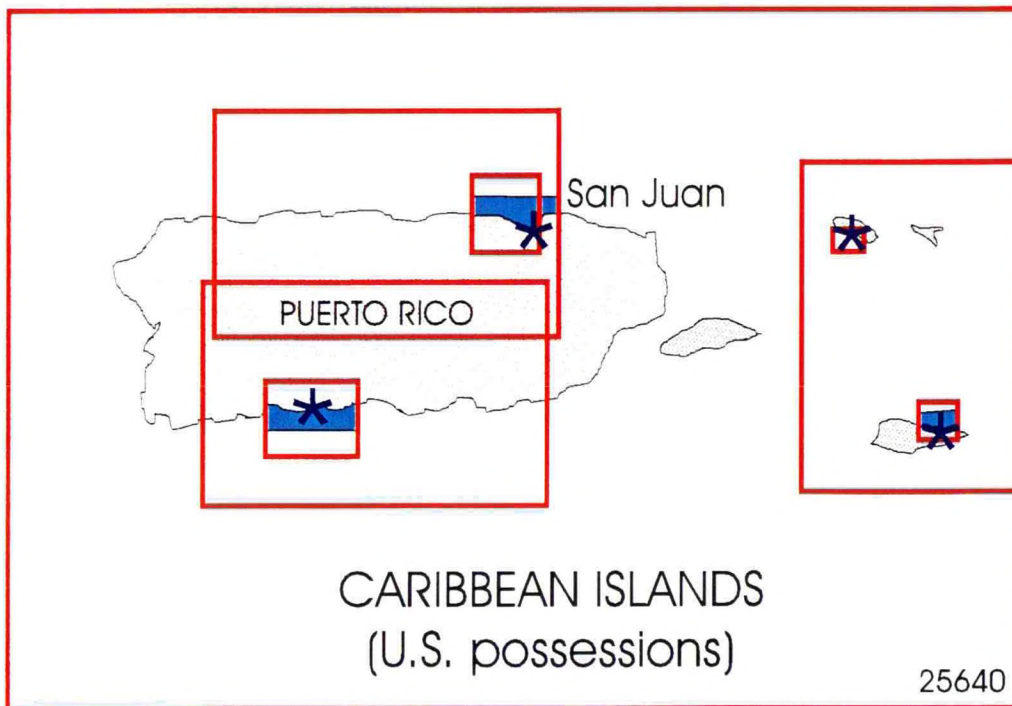
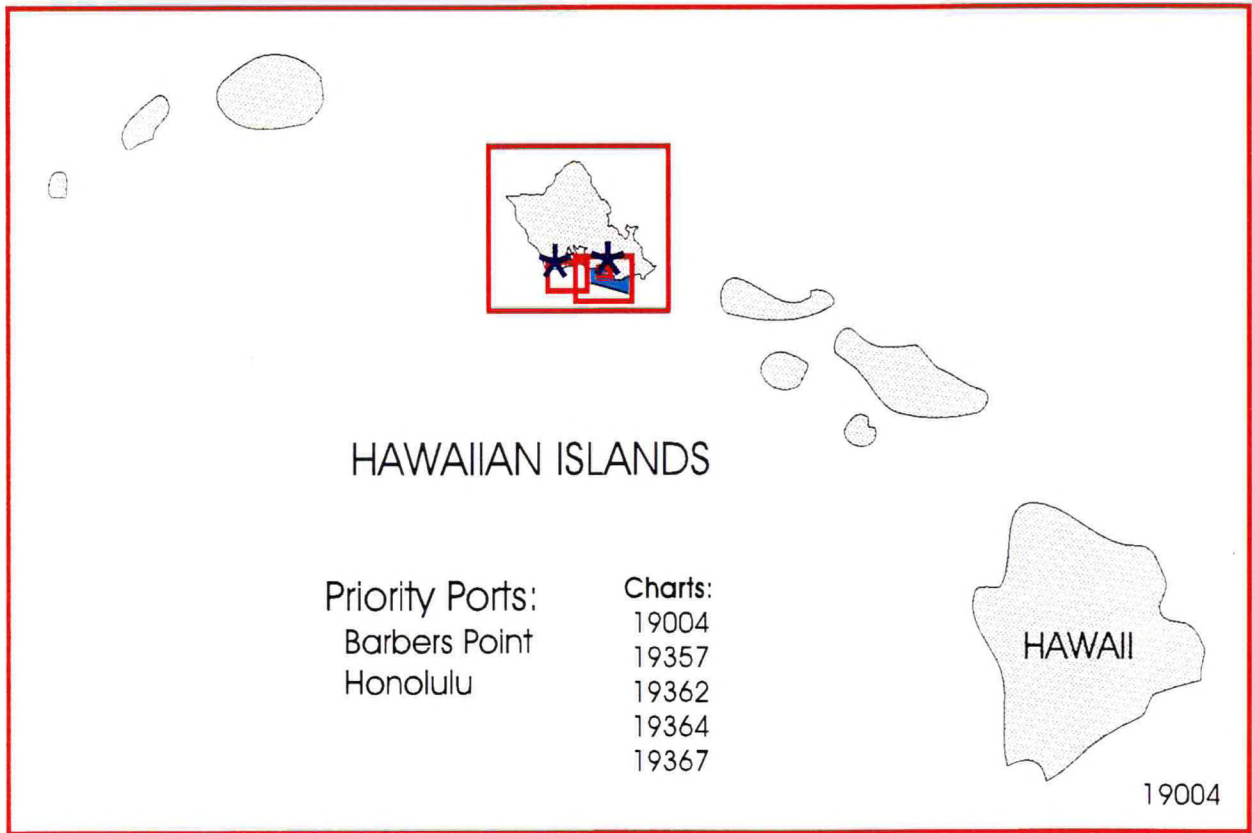
- Priority Ports:
- Anacortes, WA
 - Seattle
 - Tacoma
 - Longview
 - Kalama
 - Vancouver
 - Astoria, OR
 - Portland



 Planned 1996 - 1998 survey areas.  Planned 1996 - 2000 shoreline photography.

HAWAIIAN ISLANDS and POSSESSIONS

Small and Large Scale Chart Coverage

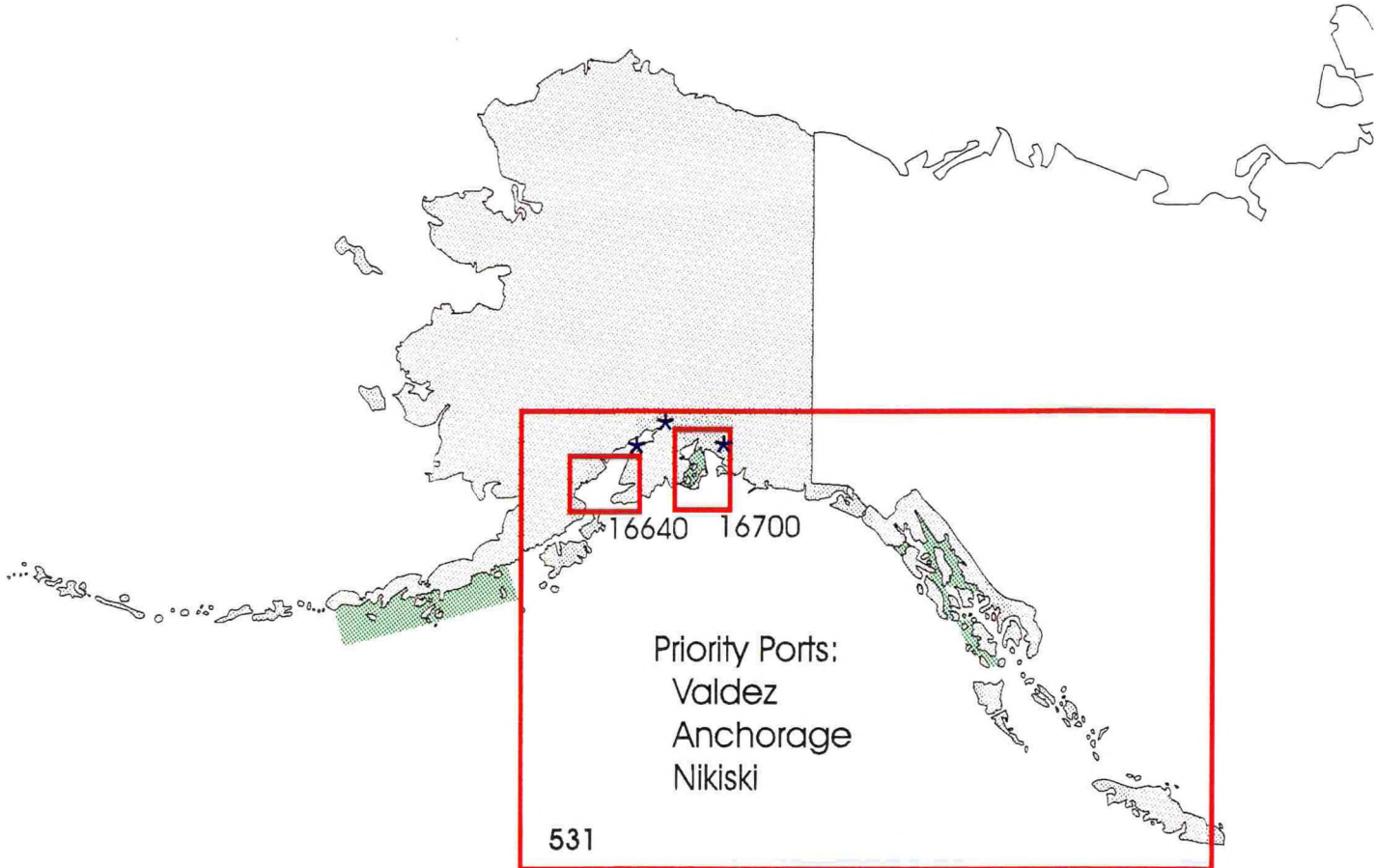



Priority Ports:
San Juan, P.R.
Ponce, P.R.
Charlotte Amalie, S.T.
Christiansted, S.C.

Charts:
25640 25668
25641 25670
25645 25677
25649 25683

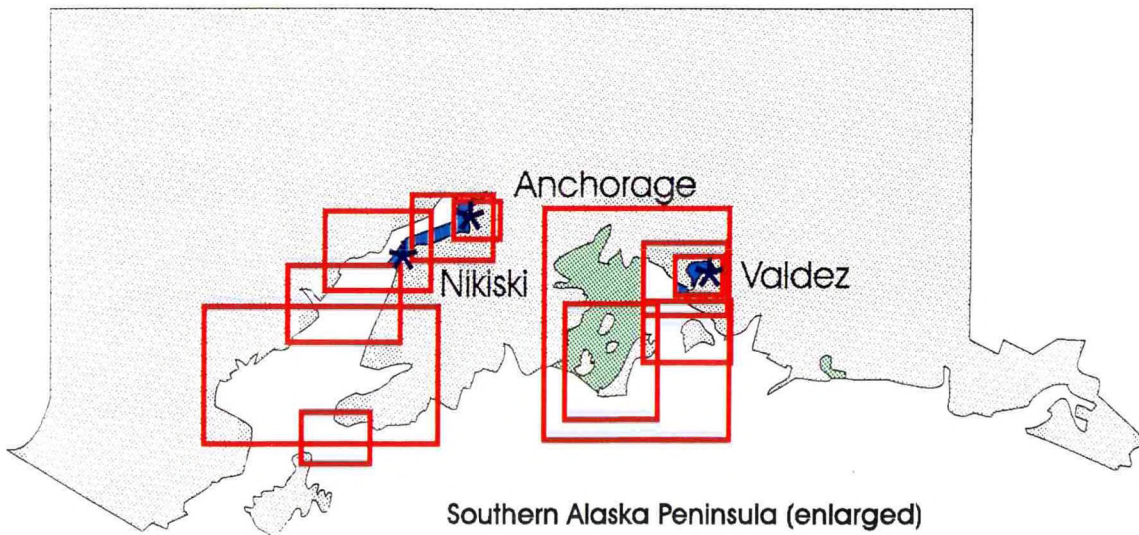


Small and Large Scale Chart Coverage



 Planned 1996 - 1998 survey areas.

 Planned 1996 - 2000 shoreline photography.



- Charts:
16606
16640
16661
16662
16663
16665
16700
16701
16707
16708
16709