



A-DAPP

User's Manual

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Version 1.1.0.0

Table of Contents

Section 1 Introduction	1
Section 2 Installation.....	3
2.1 System Requirements	3
2.2 Installation Procedures	3
2.2.1 CD-ROM Installation	3
2.2.2 Internet Download Installation.....	4
2.2.3 Installation Instructions	4
2.2.4 Uninstall	22
Section 3: Overview	23
3.1 Title Bar	23
3.2 Menu Bar.....	23
3.2.1 File.....	23
3.3 Panes.....	24
3.3.1 Navigation Pane	25
3.3.1.1 Global View	26
3.3.1.1.1 Regions.....	26
3.3.1.1.2 Ports	26
3.3.1.1.3 Anchorages	27
3.3.1.1.4 Vessels.....	27
3.3.1.1.5 Services	32
3.3.1.2 Port View.....	32
3.3.1.2.1 Port Selection	33
3.3.1.2.2 Port View Overview	34
3.3.1.2.3 Vessels.....	35

3.3.1.2.4 Services	36
3.3.1.2.5 Vessel Class Services	38
3.3.1.2.6 Route Groups	40
3.3.1.2.7 Vessel Class Route Groups	42
3.3.1.2.8 Calls	42
3.3.1.2.9 Statistics	43
3.3.2 Graphics Pane	45
3.3.3 Data Pane	45
Appendix A: A-DAPP Port and Region Codes	47
Glossary.....	97
Index.....	98

Section 1 Introduction

The Automatic Identification System Data Analysis and Pre-Processor (A-DAPP) provides the capability to visualize, analyze, and synthesize historical Automatic Identification System (AIS) data for use in container port channel improvement studies and associated simulation modeling. The user is provided a graphical interface for selecting a port or ports for a specified timeframe for review and export. The A-DAPP was developed to aid Corps analysts in characterizing historical U.S. container port traffic when evaluating channel improvements and to assist in the data collection needed for the Institute for Water Resources' (IWR) HarborSym model.

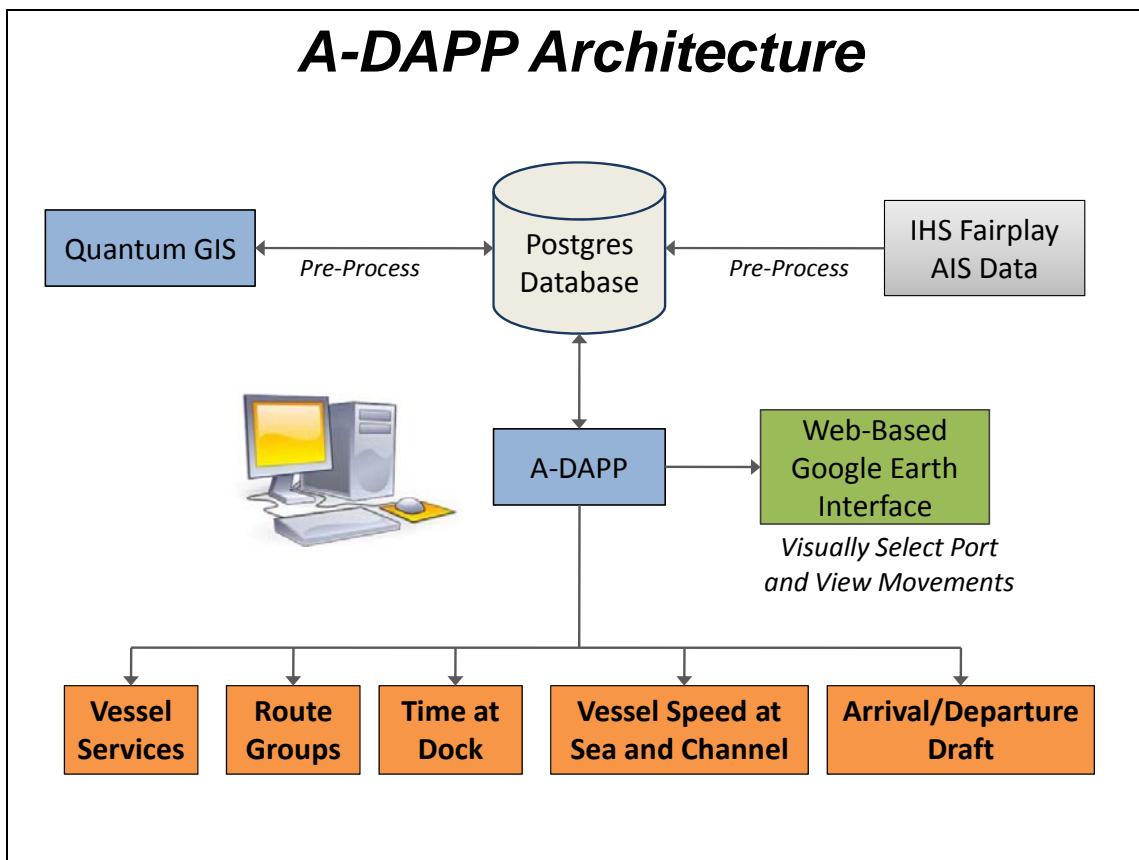
The AIS is an automated system used on vessels for identification and location purposes. Vessels with AIS electronically exchange data with other ships and vessel tracking stations. The majority of the information transmitted originates from the ship's navigational sensors while other information, such as the vessel name and ship characteristics, is programmed during installation. A vessel equipped with AIS will send additional data at a specified time interval while underway (depending on vessel speed) and at anchor. The primary AIS data for worldwide container ship movements include unique vessel identifier, movement date and time, lat/long, destination port, ship name, vessel characteristics, draft, and speed. Currently, the Corps has purchased AIS data for 3 years from 2006 to 2008 from IHS Fairplay.

The A-DAPP allows for the analysis of container vessels at shore-based stations. During the model processing, the A-DAPP analyzes a vessel's ping as well as the vessel characteristics and port information. The A-DAPP functions include the ability to identify routes and services, development of statistical information on arrival and departure drafts, calculation of statistics on the amount of time spent by vessels at docks, determination of vessel speeds at various points along the route, and calculation of trip shares and other statistics by vessel class and route group. Vessel call information for a specific port on dock arrival times/dates, drafts, and vessel call route group may be exported and combined with Waterborne Commerce Statistics Center (WCSC) data using the IWR's W-DAPP tool. The arrival time/date, draft data, wait times, and routes and services can be used to analyze current port traffic and as a base for creating historical and future vessel call lists in HarborSym.

The figure below provides a representation of the A-DAPP architecture. As shown, a postgres database is used to store the IHS Fairplay data. Quantum GIS was applied to the data during the pre-processing phase to interpret the pings. The A-DAPP utilizes the web-based Google Earth Interface for port selection and to view vessel movements.

The A-DAPP structure assumes regional boundaries and assigns ports to a region. Port and region assumptions are provided in Appendix A.

A-DAPP Architecture



Section 2 Installation

The A-DAPP software is primarily distributed by Internet download, although it can also be distributed by CD-ROM, upon request.

Installation procedures vary slightly depending on whether the user is running a version of Windows operating system that is 64 or 32 bit. To determine which version of the Windows operating system (64 or 32 bit) you are running, simply view the Properties of My Computer. This can be achieved by first clicking Start, hovering the mouse over My Computer (or Computer), right-Clicking My Computer, and choosing Properties. Variations in install instructions depending on 32 or 64 bit operating system are provided as they arise.

2.1 System Requirements

Before installing the A-DAPP, make sure the computer system meets the following hardware and software requirements:

- Windows XP SP2 or Later (SP3 preferred) or Windows 7
- Minimum 2 GB of RAM
- 500 MB of available hard disk space
- Administrator permissions on the computer for installation purpose

Additional software requirements are listed below. Install files for these components are provided in the A-DAPP install package. Installations instructions for the ADAPP and required software applications are included in Section 2.2.

- PostgreSQL Database version 8.4
- Optional PostGIS 1.5 add-in for Spatial Analysis
- .NET Framework 2.0
- Crystal Reports for .NET 4.0
- Google Earth Plugin (if not installed, link provided when A-DAPP is first launched)

2.2 Installation Procedures

2.2.1 CD-ROM Installation

Insert the A-DAPP CD-ROM into your CD-ROM drive.

Wait for the setup program to start.

Follow the instructions to complete setup; it is recommended for users to accept all default settings.

2.2.2 Internet Download Installation

Contact the IWR to obtain a copy of this tool.

2.2.3 Installation Instructions

This installation guide will ensure you have the appropriate software installed for proper configuration of the A-DAPP application.

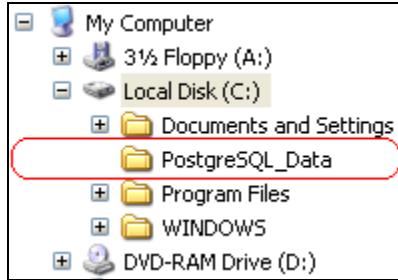
The following should be available after the download for the A-DAPP has finished:

- *A-DAPP_Install_10282010.zip* – A- DAPP installation package, zipped. Unzip this to a location of your choice. Files within are:
 - *postgresql-8.4.5-1-windows.exe* – PostgreSQL v8.4 installation package.
 - *CRRuntime_32bit_13_0.msi* – *Crystal Reports installation package for .Net applications.*
 - *AISDATAtemplate.backup* – *Database backup file imported during PostgreSQL configuration.*
 - *AISDataCreateDB.sql* – *SQL script used to create the AISData database structures.*
 - *Setup* – *A-DAPP installation file*

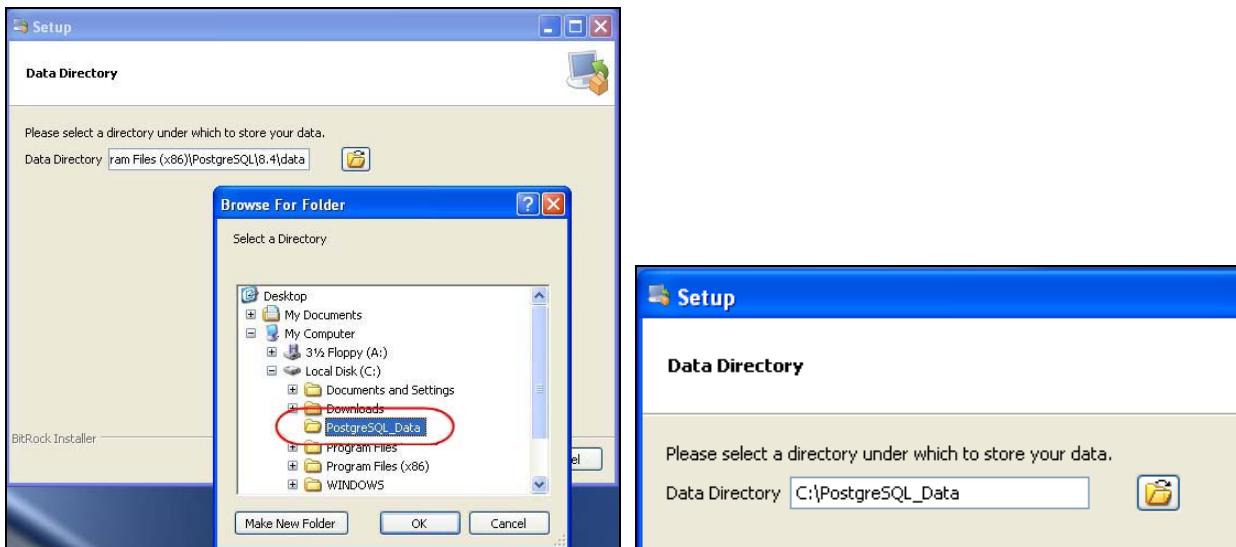
PostgreSQL Database Software

If PostgreSQL has already been installed this section can be ignored. If this is the case, skip to the section titled “PostgreSQL “AISDATA” Database.”

1. Prior to running installation, the user must determine a directory structure for storing the AIS database. For each database created in PostgreSQL, it is strongly recommended that two directories (Tablespaces) be utilized for performance reasons. The first named the same as the database, and the second post fixed with “_INDEX”. Below is an example of a suggested directory structure. This directory structure should be pre-planned but NOT created until you have started the installation process. In order for the AIS data backup to run successfully, the directory must be created exactly as shown below, on the “C” drive.

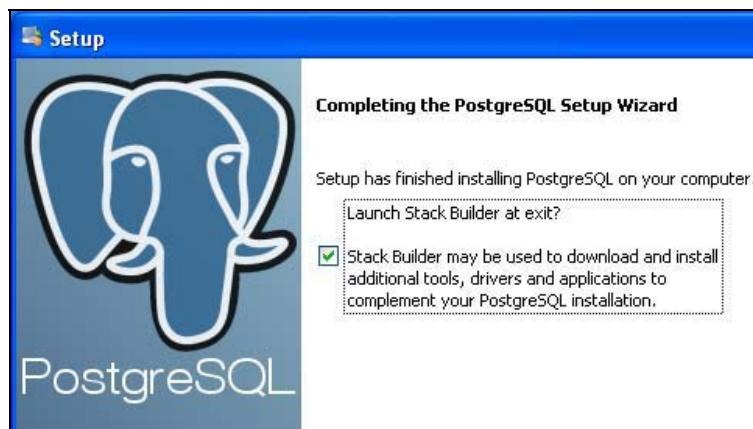


2. Launch the PostgreSQL installation by double-clicking the file "postgresql-8.4.5-1-windows.exe". If user controls are activated on the system, select Yes when prompted if you want to allow the program to make changes to this computer. Unless specified in these instructions, it is suggested that you use the default settings as you progress through the wizard, choosing next at each prompt. For example, the first prompt asks for an installation directory for the application files. The default under "Program Files" (or "Program Files (x86)") is fine.
3. Data Directory: Here you should use the create Data directory specified in Step 1 and point the setup wizard to this directory. The path would be C:\PostgreSQL_Data\.

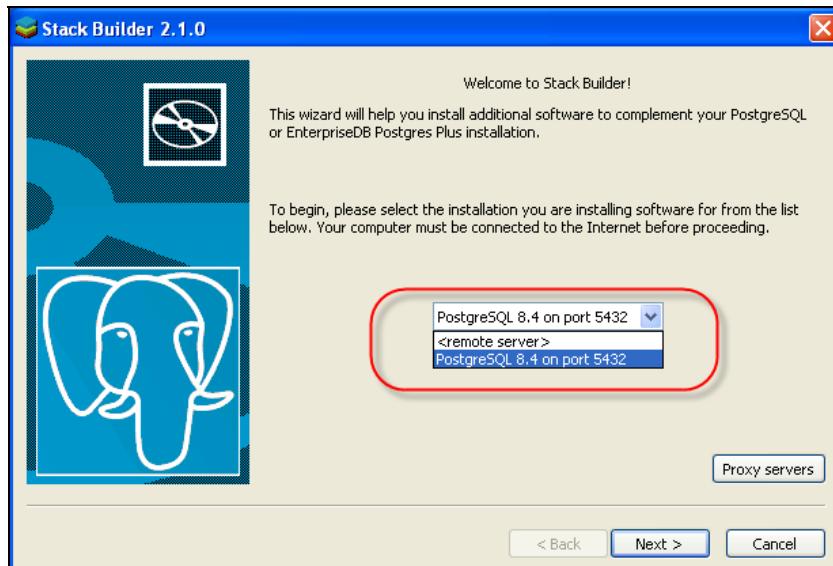


4. Password: Here you specify the database administrator password. This will also correspond to the default account used by the A-DAPP software. Please make note of the password used here as it will also have to be entered as a setup parameter to the A-DAPP application.
IMPORTANT: Users should provide a password which follows the password policy restrictions of their computer domain. PostgreSQL will not enforce domain password policy rules during installation. However, providing a password that violates domain policy will result in PostgreSQL's inability to execute properly.

5. Default Port: Use the default value of “5432.”
6. Advanced Options: Again, use the default values here. Ensure the option to “Install pl/pgsql in template1 database?” is checked.
7. Choosing next will begin the installation process and copy a larger number of files to your application directory. Following the file copy, you are prompted with the option of “Launch Stack Builder on Exit”. For future planning purposes related to upcoming versions of A-DAPP and related development, **please ensure this option is CHECKED**, and choose finish.



8. At the Stack Builder welcome screen, select your local PostgreSQL installation just completed from the list (it should be the only value listed).

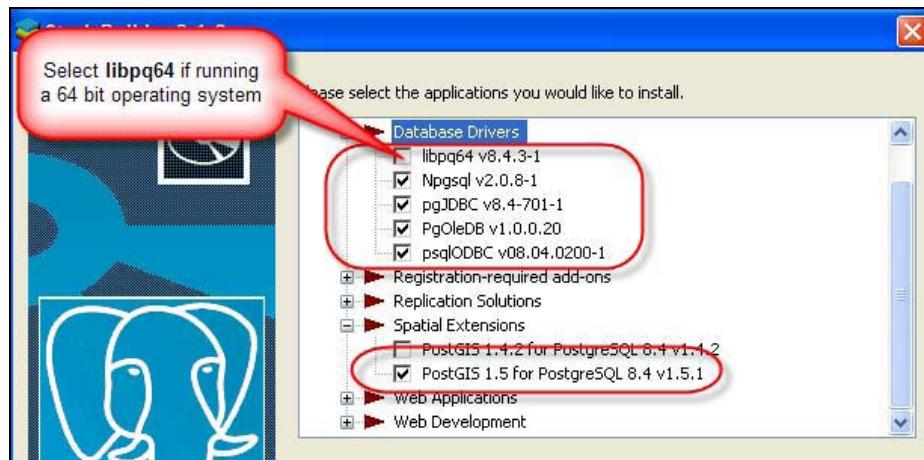


9. Next, from the listed categories, expand the following and select the options listed in the image below.

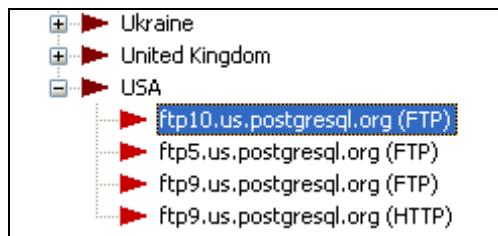
- a. Database Drivers
- b. Spatial Extensions

** NOTE: If running a 64 bit operating system, the initial driver *libpq64* should also be selected.

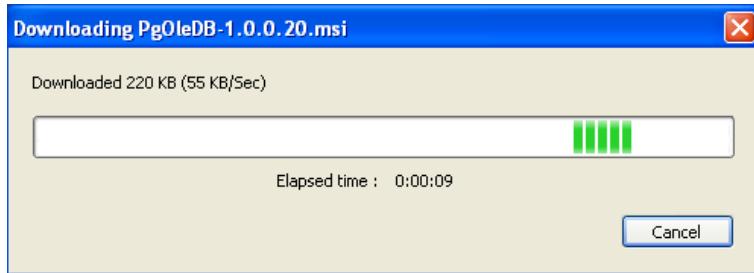
Confirm the selected packages and specify a download directory.



10. You may then be prompted to select a download site (mirror) to retrieve the selected add-ons from the internet. Scrolling to the bottom of the list, you can expand USA and choose any of the listed mirror sites.

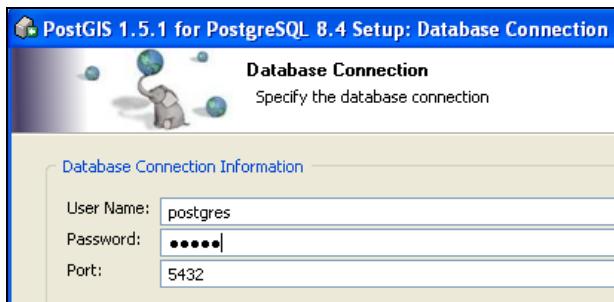


11. Choosing next, you are then prompted with a summary of the selected options, and the option to specify a download directory for the files. Any directory may be used here, however by choosing your own directory; you have the latter option of rerunning these associated installations again without needing to download the files. Click next to begin the download of each software package. The progress of your download is provided.

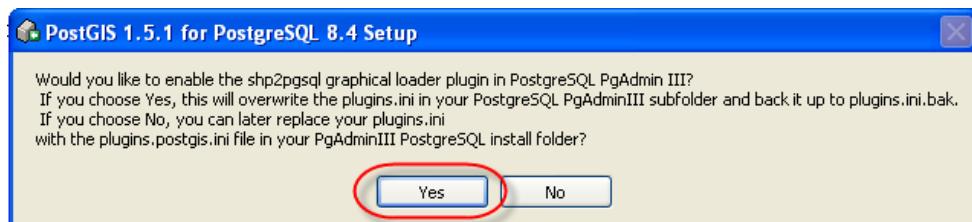


12. Once all the downloads have completed, each one will be automatically launched sequentially. Here, it is our suggestion to simply choose the default options for all setup wizard prompts. (These packages default to your Program Files directory structure.)

However, during the installation of the PostGIS 1.5.1 package, you will be prompted for the password of the default “postgres” database administrator account. This is the same password that you specified in step 5 above, and will again be used in the setup of the A-DAPP application. Default values may be used for all other prompts.



Select YES when prompted whether to enable the shp2pgsql graphical loader plugin.



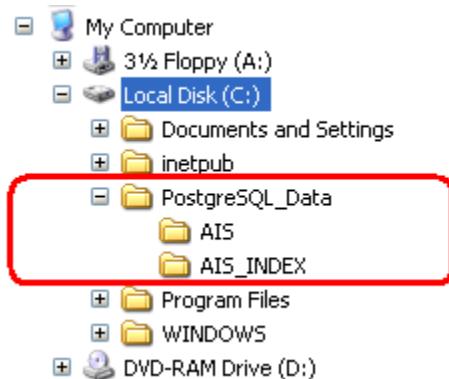
13. Continue through each sequential installation until all have completed. At this point, you are fully installed and configured with the PostgreSQL database, optional spatial add-ons for upcoming spatially-enabled features and analysis.



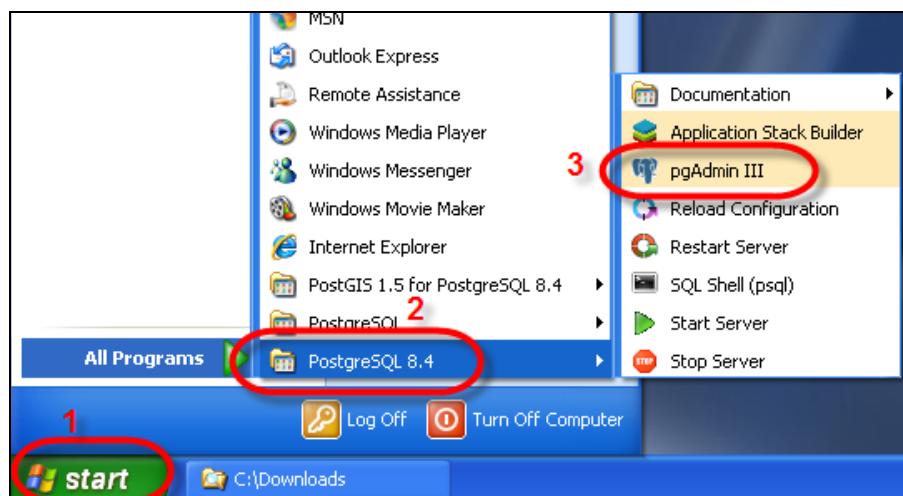
PostgreSQL “AISDATA” Database

Before leaving PostgreSQL you should import the database provided for use of the A-DAPP application. The following instructions outline the process of importing this database.

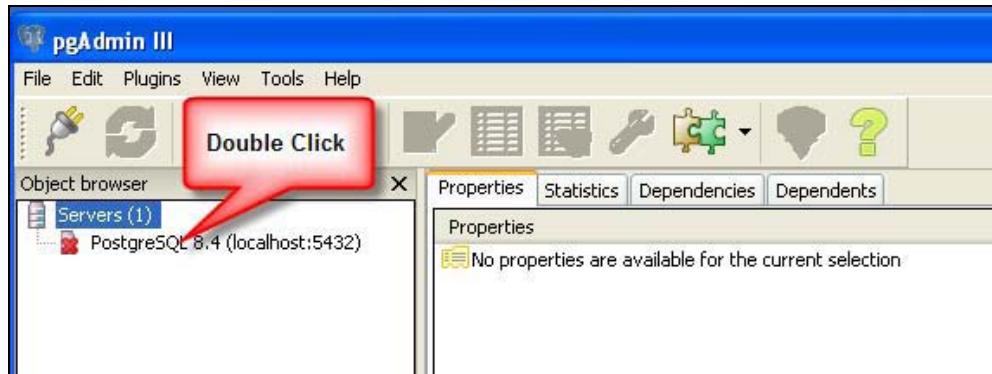
1. First, we need to create the directory structure originally designed in Step 1 of the PostgreSQL installation. As shown in the image below, you should manually create two directories below the default data directory for PostgreSQL Data (AIS and AIS_INDEX.)



2. Launch the PG Admin III database administration application.



3. Once the application has loaded, you should connect to the local database server by either Double-Clicking the server listed under “SERVERS (1)”, or by Right-Clicking the server name and choosing “Connect.”



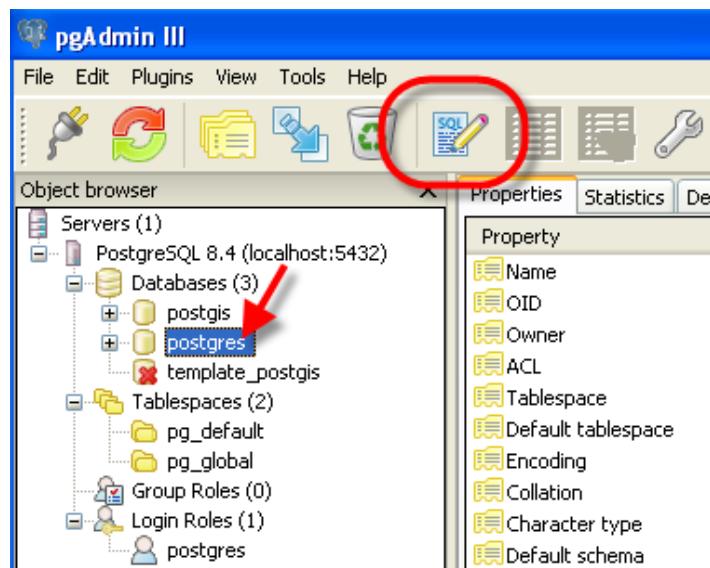
Either method will prompt you to enter the password for the default “postgres” administrator account. This is the password you specified in Step 5 above during the database software installation.



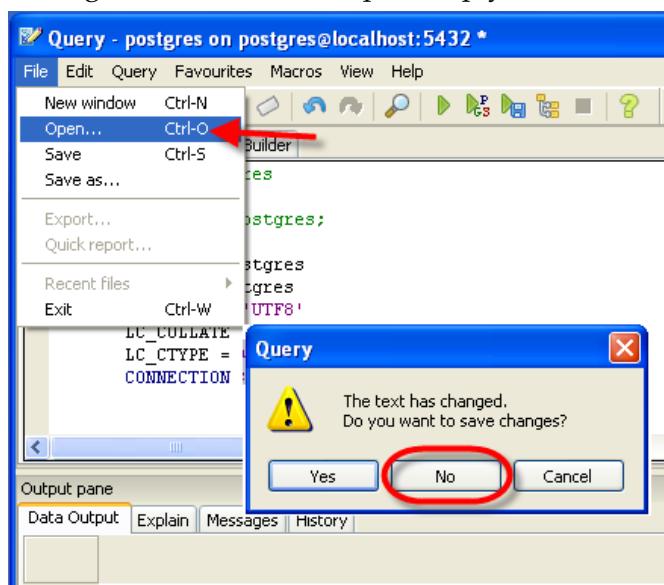
- When connected, the following database object tree should be provided. (when fully expanded)

Property	Value
Description	PostgreSQL 8.4
Hostname	localhost
Port	5432
Encryption	not encrypted
Service	postgresql-8.4
Maintenance database	postgres
Username	postgres
Store password?	No
Restore environment?	No
Version string	PostgreSQL 8.4.3, compiled by Visual C++ build 1400, 32-bit
Version number	8.4
Last system OID	11563
Connected?	Yes
Up since	6/14/2010 12:03:02 PM
Autovacuum	running
Running?	Yes

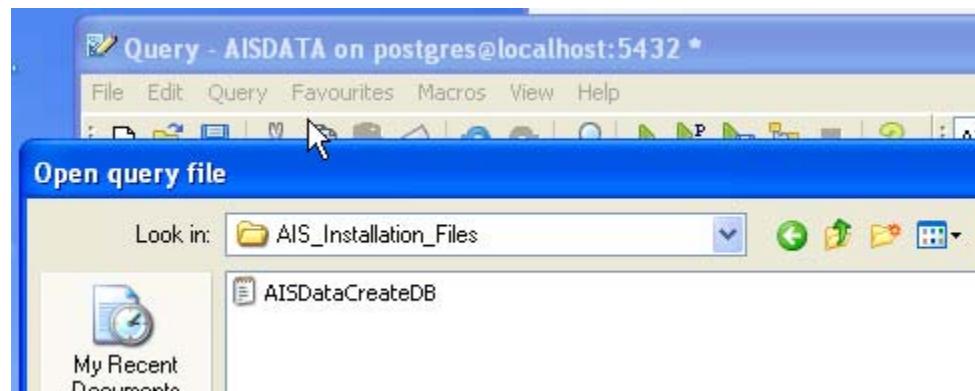
- Next, a Query Window is opened in order to execute a database creation script provided with the installation files. To do this, select the “postgres” database from the list of databases, and then click the SQL toolbar button highlighted in the image below.



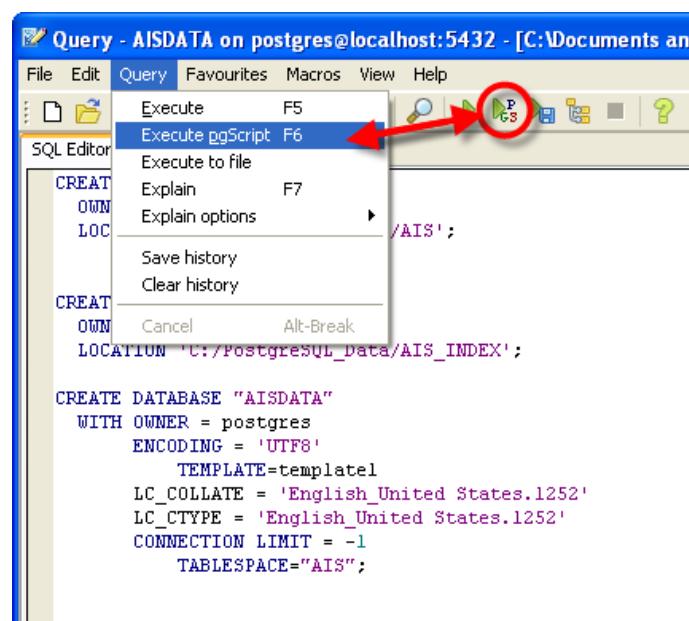
6. A new Query window is opened and is preloaded with a script to recreate the postgres database highlighted. We will ignore this script. To open a new script, click file, then open to choose the predefined script provided. You will be prompted whether to save the changes of the current script. Simply choose No.



7. You are now provided a dialog to browse for the provided script file. This file should be titled "AISDataCreateDB.sql." Select this file and choose OPEN.

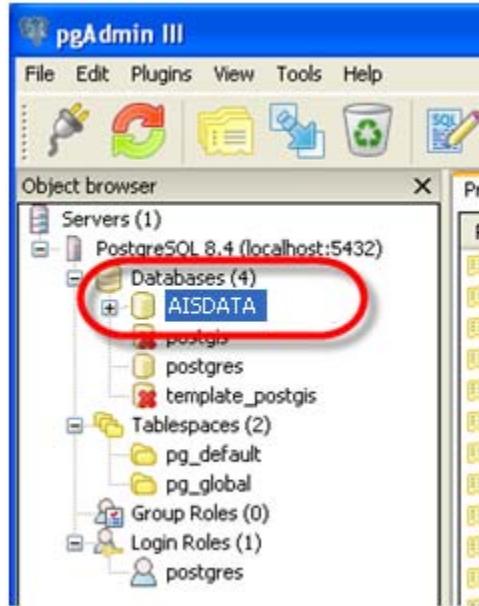


8. This script may be executed either by choosing *Query -> Execute pgScript*, by hitting *F6* on the keyboard, or choosing the highlighted toolbar button in the image below.

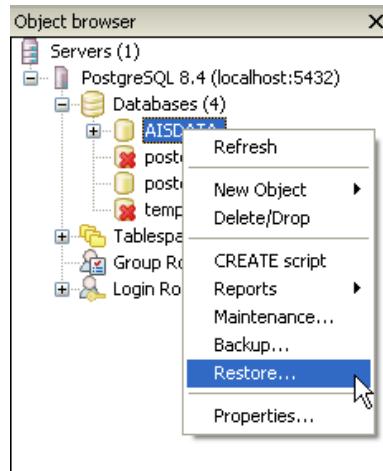


9. Once the script has completed successfully, you can select the root Databases Group from the Object Browser in pgAdmin III and click the REFRESH toolbar button highlighted

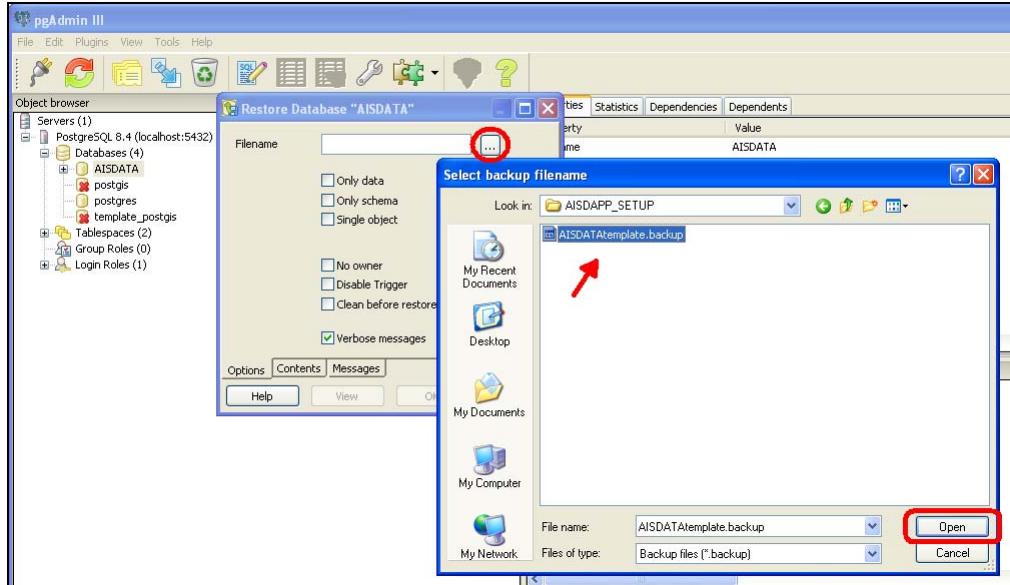
below. You should now see your newly created AISDATA database.



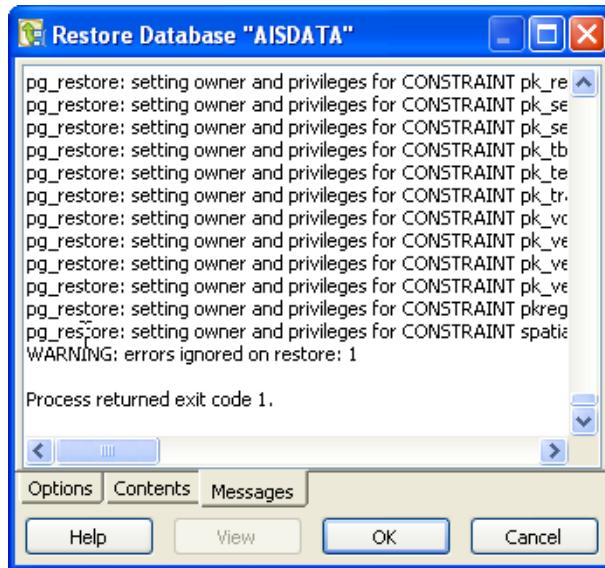
10. The next step is to import the pre-loaded database. This is done through a process of restoring a Backup file. To perform the restoration, Right-Click the AISDATA database in the Object Explorer, and choose “Restore...”



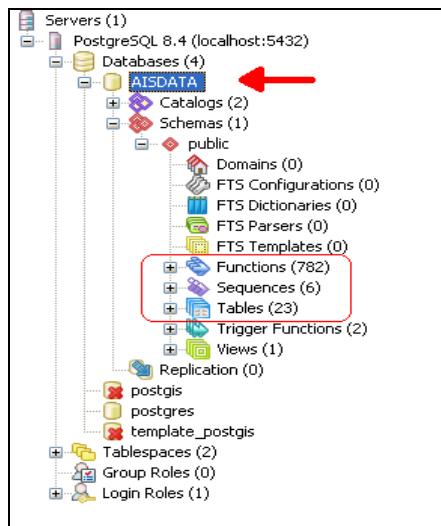
11. On the Restore Database form, clicking the ellipses button will open a File Dialog where you may browse to the backup file “AISDATAtemplate.backup.” Select the file and click the Open button. Leave the remaining options at their default values (all unchecked except Verbose messages) and click the OK button.



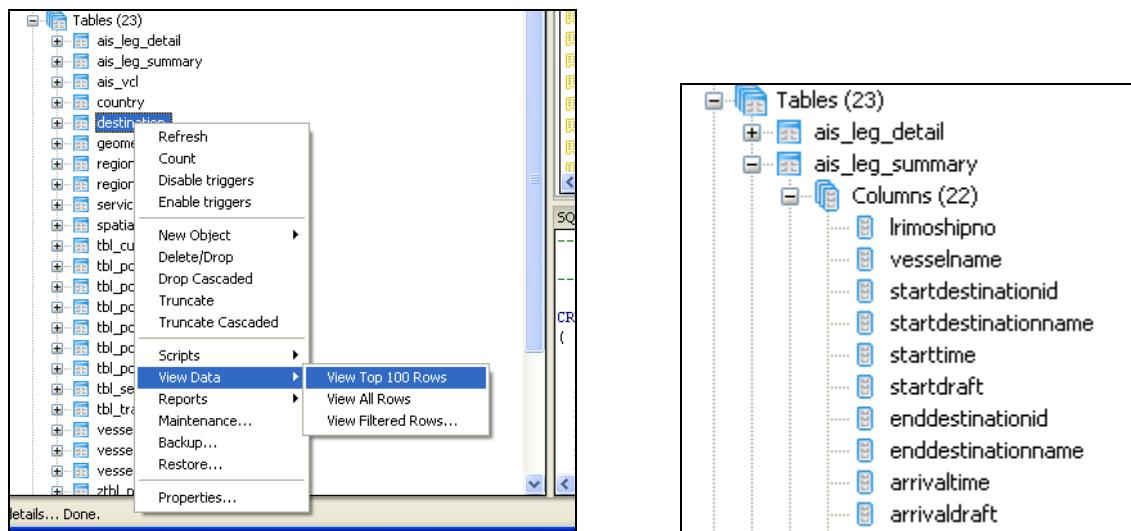
12. When the restore is complete, you get the following summary dialog confirming success. Press the Cancel button to close the dialog. (Selecting OK will prompt you to run the restore again.)



13. You may now confirm the database successfully restored by viewing the number of tables in the AISDATA database. This is done by expanding the tree in the Object Browser as shown below.



14. Database tables can be reviewed and queried by expanding the database tree, and utilizing the right mouse click options available for each table name. Features include listing the table columns as well as viewing rows of data.

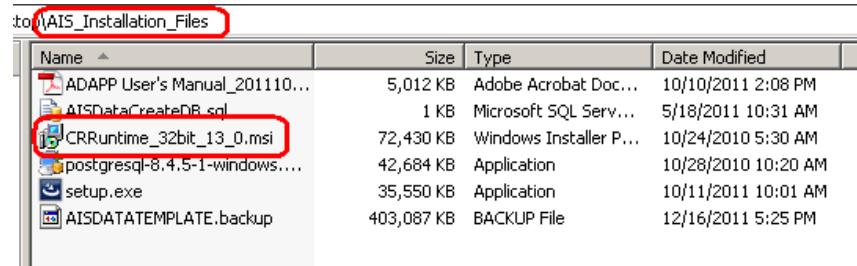


15. When finished reviewing the database objects, simply close the pgAdmin III tool by choosing FILE - Exit.

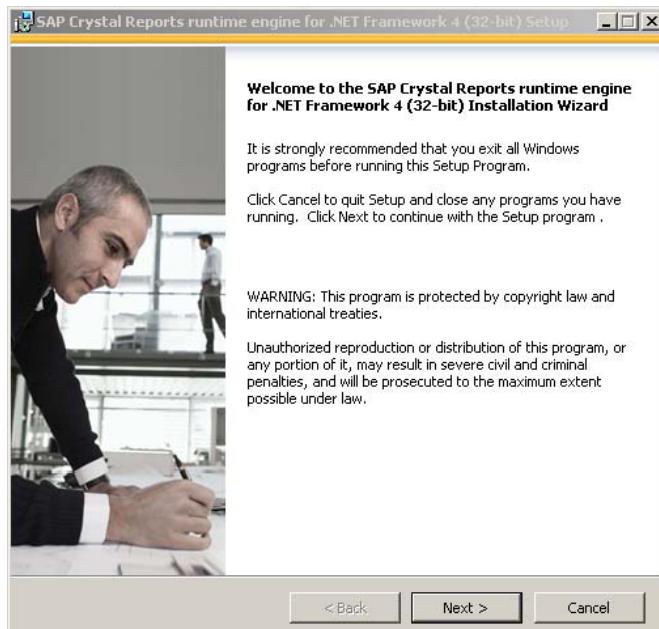
Crystal Reports Viewer for Visual Studio

The A-DAPP application has specific functionality that requires Crystal Reports so that selected data can be viewed in a reporting window. The following instructions will walk you through installing the lightweight client software necessary to view the reports.

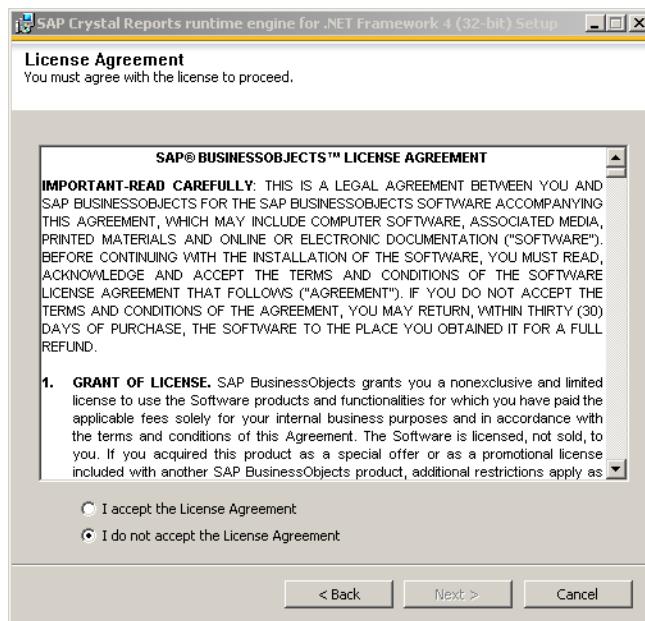
1. Locate and execute the setup file titled CRRuntime_32bit_13_0.msi. This file should be located in the root directory of the folder created during the unzip process.



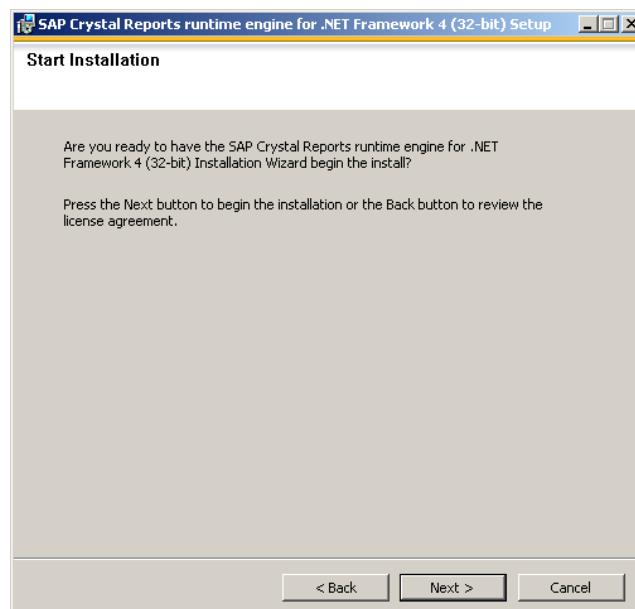
2. The Crystal Reports setup file will now load. Click the Next button to continue the installation.



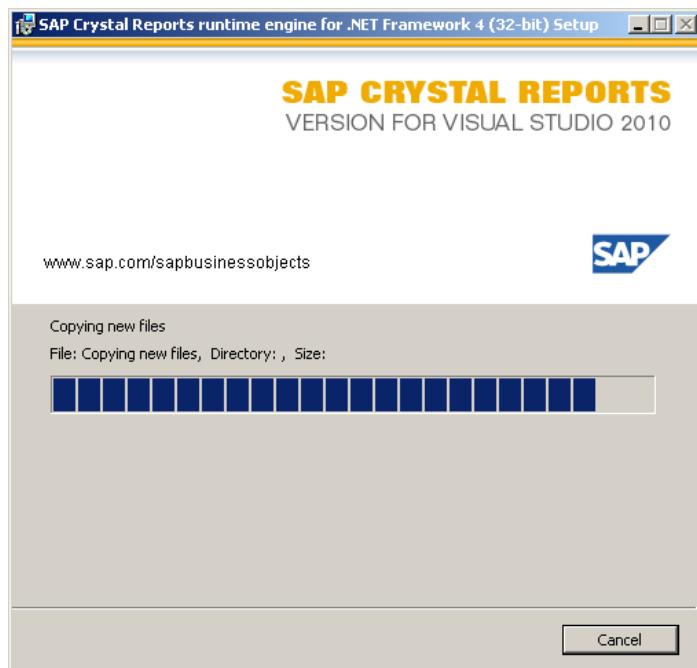
3. This is followed by a License Agreement, which should be read before clicking the License Agreement radio button and clicking Next.



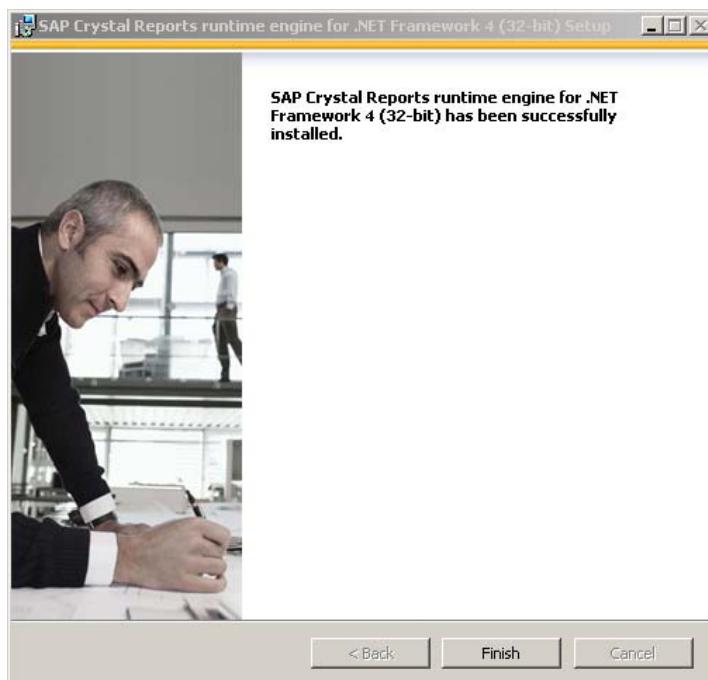
4. Now there is another screen which gives the user another opportunity to go back before continuing with the installation. Click Next to start installing the files.



5. A progress dialog is provided to monitor the status of the installation.



- Once installation is completed, you are prompted with a confirmation dialog. Click the Finish button to end the installation.

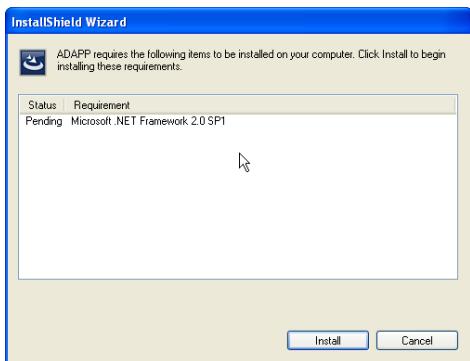


A-DAPP Software

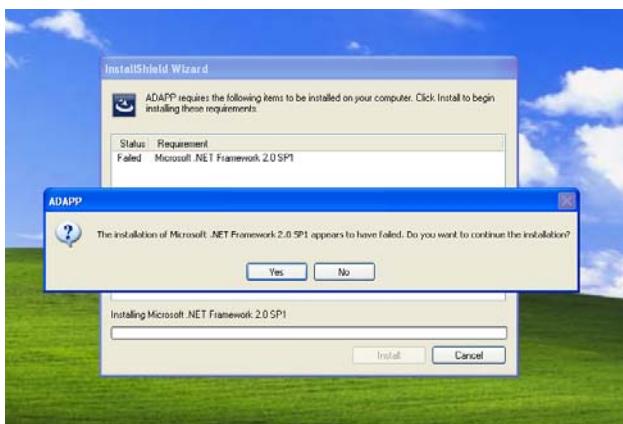
All of your prerequisites are now installed and we can begin the installation of the A-DAPP software. The A-DAPP application does have a requirement of the .Net Framework 2.0,

however this is usually already available on Windows PCs that maintain consistent Windows Updates. The following steps outline the A-DAPP software installation, using a PC that has .Net Framework 2.0 previously installed.

1. Locate and launch the A-DAPP software installation file “Setup.exe.” . If the .Net Framework 2.0 has not been previously installed you will be prompted to install this framework before continuing to the A-DAPP installation.



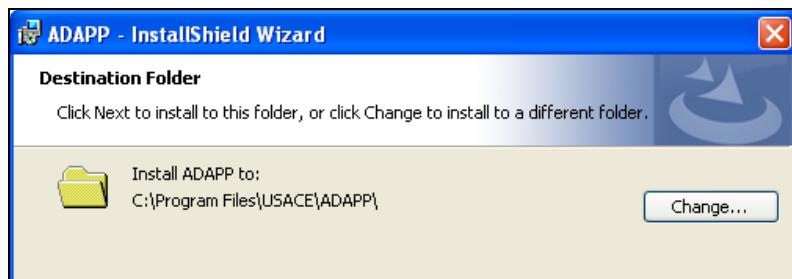
***There is a known issue with the detection of the .Net Framework 2.0 SP1. It is possible that this framework is already installed on the computer but will not be detected by the installer. If this is the case the A-DAPP installation will attempt to install the framework again which will cause an error, but will still allow you to continue with the A-DAPP installation.**



2. You will now be prompted with an A-DAPP software installation welcome screen. Click the Next button to continue.



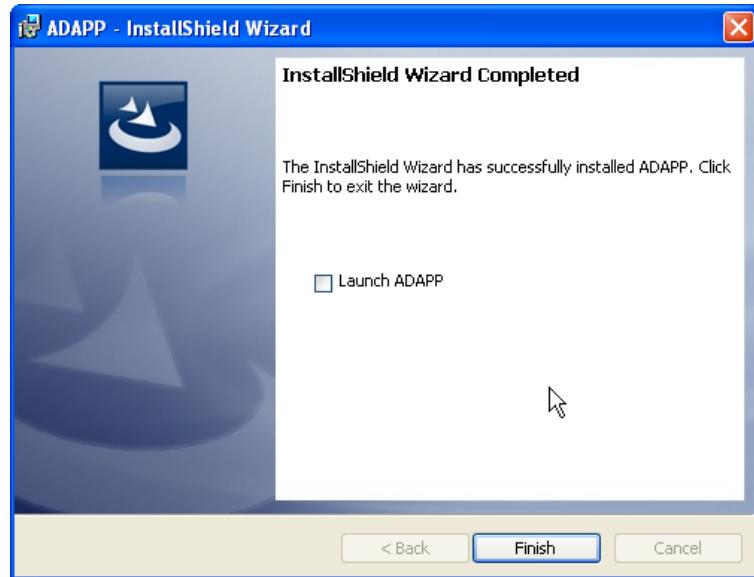
3. You are prompted with a default installation directory, and the option to change the location of the application files. ****It is recommended that you utilize the default directory listed.**



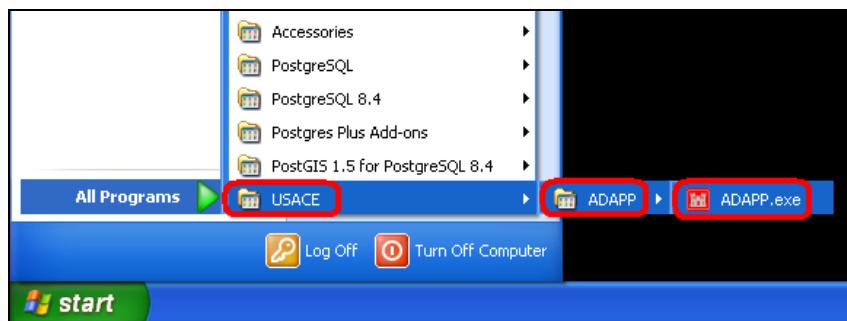
4. A progress dialog is provided. The A-DAPP application is not very large, and this step should not take long to complete.



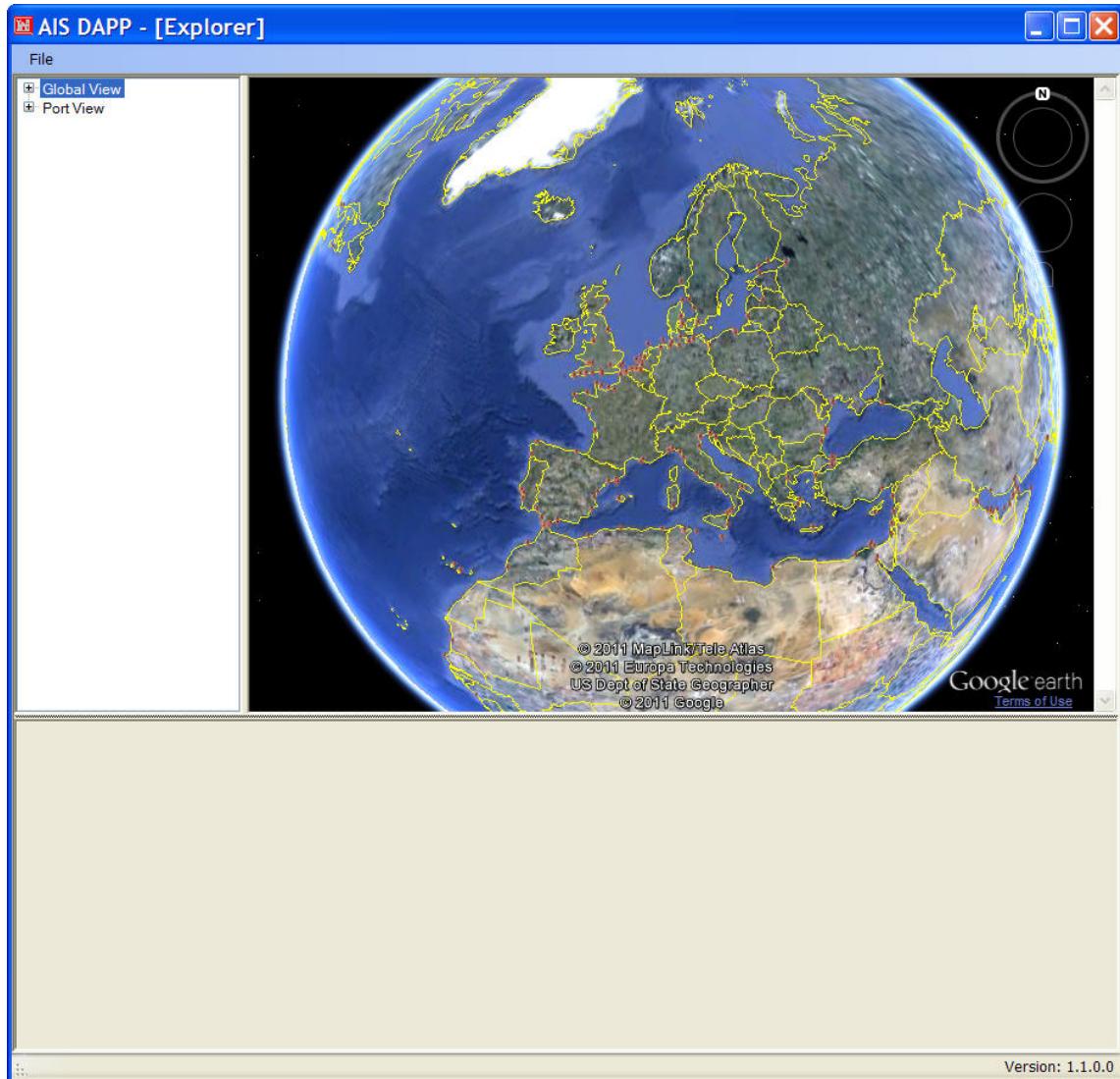
5. A final dialog indicates the completion of the software installation, and provides you the option to immediately launch the A-DAPP software after clicking the Finish button.



6. A shortcut to run the A-DAPP application can be found on the desktop or by clicking Start -> All Programs -> USACE -> ADAPP -> ADAPP.exe. The A-DAPP can be removed using Add-Remove Programs under the Windows Control Panel.



7. For guidance on using the A-DAPP application, please refer this guide.



2.2.4 Uninstall

Click the Start button on the Taskbar.

Click Settings.

Click the Control Panel.

Double-click Add/Remove Programs.

Select “ADAPP”.

Click the Add/Remove button.

Section 3 Overview

3.1 Title Bar

The Title Bar is located at the top of the tool. It lists the name of the application on the left side. The right part of the Title Bar provides users with the standard Microsoft Windows controls for minimizing the A-DAPP application, maximizing the A-DAPP application, and closing the A-DAPP application.



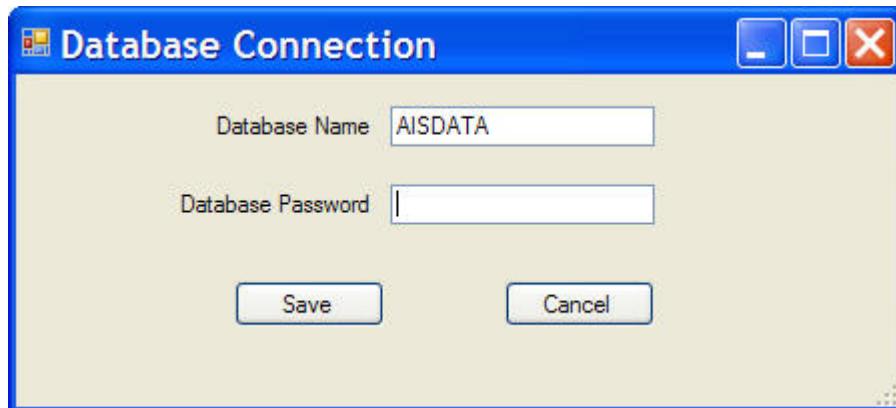
3.2 Menu Bar

The Menu Bar is found near the top and below the Title Bar. The Menu Bar provides users with access to the application's dropdown menus containing useful commands.

3.2.1 File



Selecting Configure from the File menu opens the Database Connection form. This allows the user to view the Database Name and Database Password. The password entered in this step is the Postgres password specified during installation.



To use another database, the user can update the Database Name and Database Password and click the Save button. If the application is unable to connect to the database the user will receive a message below the Save button that states, “Could not establish a connection. Please reenter password.”

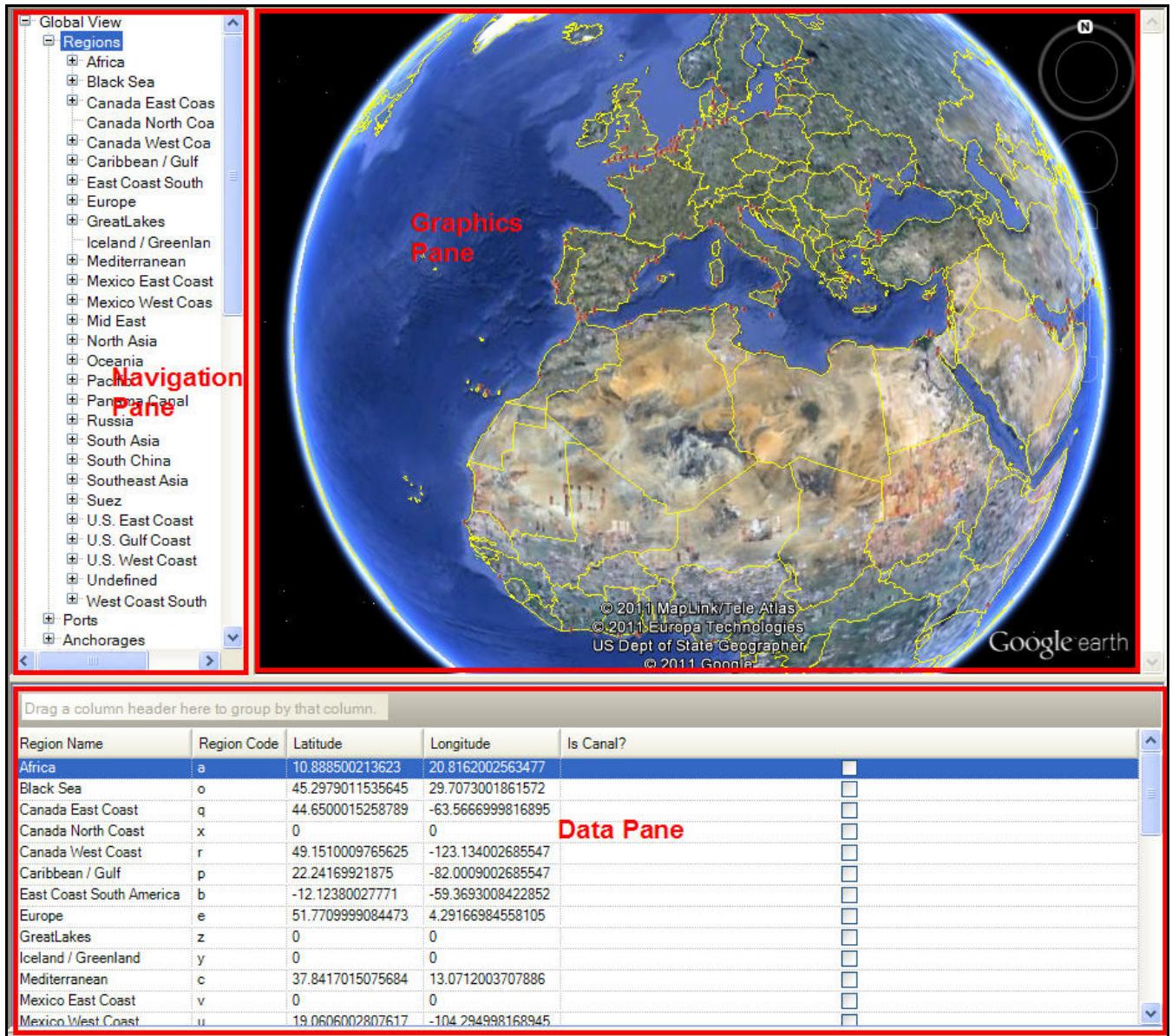
After the user updates the database name and password the user can click Save to retry. If a successful connection is made to the database this form will close.

The menu option File/Toggle Anchorages allows the user to view or hide the anchorages on the Google Earth interface. If anchorages are currently displayed on the map, to hide anchorages select File/Toggle Anchorages. If no anchorages are currently displayed on the map, to view anchorages select File/Toggle Anchorages.

Selecting File/Exit will close the A-DAPP application.

3.3 Panes

When the A-DAPP is launched the screen will be organized into three panes, the Navigation Pane, the Graphics Pane, and the Data Pane. The Navigation Pane displays an expandable tree of information the user can select from related to regions, ports, vessels, services, and routes. The Graphics Pane will display a Google Earth interface that provides satellite background images as well as representative markers for port locations and vessel movements. The Data Pane will supply information about the currently selected item in the Navigation Pane.



3.3.1 Navigation Pane

The Navigation Pane guides the user through the data available in the A-DAPP. Through the Navigation Pane, the user can explore global data or select a specific port to explore. The Graphics and Data Panes respond to the Navigation Pane and will display the data that correspond to the tree structure item selected. Within the Navigation Pane, may tree structure items have a hierarchy structure. When a “plus” is present next to a tree item name, click the plus to expand the tree structure and view additional items.

3.3.1.1 Global View

Selecting the Global View will provide the user with data relating to all vessels, ports, and regions in the entire A-DAPP database. When items are selected from the Global View navigation pane, the Graphics Pane will pan to the relevant location. Any data viewed from the Global View represents the full dataset. That is, data shown in Global View includes all vessels in the A-DAPP database and dated 2006-2008 (at the time of this writing).

3.3.1.1.1 Regions

Twenty-seven Regions are predefined within the A-DAPP framework. Regions are associated with a single character code. Appendix A provides maps of the region boundary assumptions as well as a table of the region codes.

Expanding the Regions tree structure under Global View, by clicking the plus beside “Regions”, provides a list of the regions traversed by all vessels in the A-DAPP database. These are general categories and may contain several different ports. Selecting Regions provides the user with a view of the Region ID, the Region Name, the Region Code, and the Latitude and Longitude of the region in the data pane. Selecting a specific region in the Navigation Pane provides the ID, Region Name, Region Code, Latitude and Longitude of the selected region in the Data Pane. Clicking the plus beside a region provides a list of the ports and anchorages in that region in the Navigation Pane. Selecting a port provides the ID, Destination Name, Latitude and Longitude of the selected port in the Data Pane and zooms into the port in the Graphics Pane.

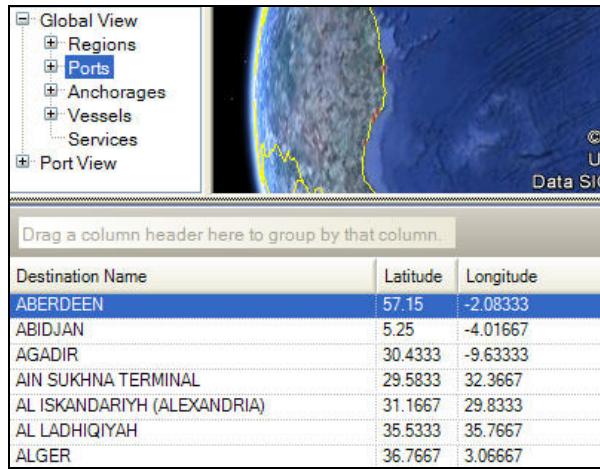
3.3.1.1.2 Ports

Ports within the A-DAPP framework are defined according to the World Port Index. The A-DAPP includes only the ports labeled as Large or Medium in the World Port Index. Ports are displayed in the Graphics Pane with a red marker. Appendix A provides details on port assumptions, including destination name, Country of Port, Port Code, and Region of Port.

Clicking the plus next to Ports provides an alphabetical list of all the ports. Selecting Ports in the Navigation Pane provides the Port ID, Destination Name, Latitude, and the Longitude of all ports in the Data Pane. Selecting a port in the Navigation Pane lists the ID, Destination Name,



Latitude and Longitude of the port in the Data Pane and zooms into the port in the Graphics Pane.



3.3.1.3 Anchorages

Anchorages, as defined in the A-DAPP, are when a collection of vessel pings cluster in an area outside of a port. This could be directly outside of a port or at some location between two destinations. Clicking the plus beside Anchorages in the Navigation Pane displays all anchorages in the A-DAPP database. For each anchorage, the Latitude and Longitude are provided.

3.3.1.4 Vessels

Clicking the plus beside Vessels in the Navigation Pan provides a list of all unique vessels. Selecting Vessels in the Navigation Pane provides the IMO Number (a unique number assigned by Lloyd's for each vessel), Vessel Name, Vessel Class, Vessel Subclass, and Route string of each vessel in the Data Pane. Selecting a specific vessel in the Navigation Pane will provide the IMO Number, Service (code), Count and Service Name of the vessel. The Count represents the number of times the vessel travelled the listed service for the timeframe of the AIS data (currently 2006-2008).



Vessels are categorized by class and subclass according to USACE standards, see Table 1 below. Vessel classes are designated according to their size limitations and include Sub-Panamax, Panamax, Post Panamax Gen 1, and Post Panamax Gen 2. Sub-Panamax vessels are able to enter most ports and go between container ports that are not served by larger ships. The TEU capacity of a Sub-Panamax vessel ranges from 2,000 to 3,000. Panamax vessels are the largest acceptable size vessels in order to transit the Panama Canal prior to the 2014 expansion with a TEU capacity from 3,000 to 5,000. Post Panamax denotes vessels that will not fit through the Panama Canal prior to the 2014 expansion. Gen 1 vessels have a TEU capacity of 4,500 to 6,000 and Gen 2 vessels have a TEU capacity of 6,300 and upwards.

As with Vessel Class, Vessel Sub-Class is defined BY USACE according to a number of vessel characteristics, see Table 2 below. The table provides the ranges used to define Vessel Sub-Classes in the A-DAPP.

TABLE 1: VESSEL CLASS DELINATION PARAMTERS

Vessel Class Name	Min LOA ^a	Max LOA	Min Breadth	Max Breadth	Min MXSLLD ^b	Max MXSLLD	Min DWT ^c	Max DWT	Min TEU ^d	Max TEU	Min Draft	Max Draft
Sub-Panamax	142	206	22	30	8	12	11,726	33,887	907	2,470	7	11
Panamax	233	294	32	36	12	13	42,183	64,956	3,084	4,729	11	13
Post- Panamax Gen 1	274	309	37	40	12	15	63,199	86,259	4,858	6,662	13	14
Post- Panamax Gen 2	300	347	43	45	13	15	75,898	110,448	6,332	9,513	13	14

a) LOA = Length overall

b) MXSLLD = Maximum summer loadline draught

c) DWT = Deadweight tonnage

d) TEU = Twenty foot equivalent

TABLE 2: VESSEL SUB-CLASS DELINATION PARAMTERS

Vessel Class	Vessel Sub-Class Description	LOA ^a	LBP ^b	Aggr. Breadth	Max MXSLLD ^c	Applied Draft Class	TEU ^d Rating	Min Draft	Max Draft	Min LOA	Max LOA	Min Breadth	Max breadth	Min DWT ^e	Max DWT
Sub-Panamax	SPM - Ag - MINIMUM	0	0	0	0.0	0	0	0.0	24.0	0	466	0	73	0	9,073
	SPM - Ag - CL 4	466	435	73	26.2	24.00 to 27.99	907	24.0	28.0	466	499	73	79	9,073	10,903
	SPM - Ag - CL 5	499	466	79	28.9	28.00 to 29.99	1,090	28.0	30.0	499	535	79	84	10,903	13,881
	SPM - Ag - CL 6	535	502	85	30.4	30.00 to 30.99	1,388	30.0	31.0	535	571	85	87	13,881	14,470
	SPM - Ag - CL 7	571	534	87	31.3	31.00 to 31.99	1,447	31.0	32.0	571	576	87	90	14,470	15,292
	SPM - Ag - CL 8	576	540	84	32.5	32.00 to 32.99	1,529	32.0	33.0	576	585	84	85	15,292	16,184
	SPM - Ag - CL 9	585	549	90	33.5	33.00 to 33.99	1,618	33.0	34.0	585	596	90	92	16,184	17,782
	SPM - Ag - CL 10	596	559	92	34.6	34.00 to 34.99	1,778	34.0	35.0	596	603	92	92	17,782	18,945
	SPM - Ag - CL 11	603	566	92	35.6	35.00 to 35.99	1,895	35.0	36.0	603	657	92	98	18,945	22,676
	SPM - Ag - CL 12	657	621	98	36.2	36.00 to 36.99	2,268	36.0	37.0	657	676	98	99	22,676	24,699
	SPM - Ag - CL 13	676	636	99	37.6	37.00 to 37.99	2,470	37.0	38.0	676	766	99	104	24,699	30,839

TABLE 2: VESSEL SUB-CLASS DELINATION PARAMTERS

Vessel Class	Vessel Sub-Class Description	LOA ^a	LBP ^b	Aggr. Breadth	Max MXSLLD ^c	Applied Draft Class	TEU ^d Rating	Min Draft	Max Draft	Min LOA	Max LOA	Min Breadth	Max breadth	Min DWT ^e	Max DWT
Panamax	PMX - Ag - CL 1	777	729	105	38.5	38.00 to 38.99	3,084	38.0	39.0	777	794	105	106	30,839	31,880
	PMX - Ag - CL 2	766	723	104	39.4	39.00 to 39.99	3,188	39.0	40.0	766	777	104	104	31,880	33,890
	PMX - Ag - CL 3	794	753	106	40.3	40.00 to 40.99	3,389	40.0	41.0	794	846	106	106	33,890	38,411
	PMX - Ag - CL 4	846	801	106	41.2	41.00 to 41.99	3,841	41.0	42.0	846	887	106	106	38,411	39,925
	PMX - Ag - CL 5	907	859	106	42.5	42.00 to 42.99	4,125	42.0	43.0	907	928	106	123	41,252	47,294
	PMX - Ag - CL 6	887	839	104	43.4	43.00 to 43.99	3,993	43.0	44.0	887	900	104	105	39,925	41,252
	PMX - Ag - CL 7	959	921	106	44.4	44.00 to 44.99	4,729	44.0	45.0	959	965	106	106	47,294	48,575
Post Panamax Gen 1	PPXGn I - CL 1.00	1,014	973	132	39.4	39.00 to 39.99	5,918	39.0	40.0	1,014	1,018	132	132	59,180	60,500
	PPXGn I - CL 2.00	928	879	131	41.4	41.00 to 41.99	5,534	41.0	42.0	928	935	131	132	55,343	57,927
	PPXGn I - CL 3.00	972	919	123	42.8	42.00 to 42.99	4,858	42.0	43.0	972	975	123	130	48,575	49,121
	PPXGn I - CL 4.00	900	855	130	44.4	44.00 to 44.99	4,912	44.0	45.0	900	907	130	131	49,121	55,343
	PPXGn I - CL 5.00	935	881	131	46.0	46.00 to 46.99	5,793	46.0	47.0	935	949	131	131	57,927	59,180
	PPXGn I - CL 5.67	949	901	132	46.0	46.00 to 46.99	6,050	46.0	47.0	949	954	132	132	60,500	61,858
	PPXGn I - CL 5.50	954	905	132	46.1	46.00 to 46.99	6,186	46.0	47.0	954	959	132	132	61,858	62,949
	PPXGn I - CL 5.40	965	914	132	46.1	46.00 to 46.99	6,295	46.0	47.0	965	970	132	132	62,949	63,289
	PPXGn I - CL 5.33	975	925	132	46.1	46.00 to 46.99	6,387	46.0	47.0	975	981	132	132	63,870	64,412
	PPXGn I - CL 5.30	981	932	132	46.1	46.00 to 46.99	6,441	46.0	47.0	981	984	132	132	64,412	65,052
	PPXGn I - CL 5.25	984	935	132	46.1	46.00 to 46.99	6,505	46.0	47.0	984	984	132	132	65,052	65,493
	PPXGn I - CL 5.20	989	942	132	46.2	46.00 to 46.99	6,549	46.0	47.0	989	992	132	132	65,493	65,998
	PPXGn I - CL 5.15	992	944	132	46.2	46.00 to 46.99	6,600	46.0	47.0	992	1,014	132	132	65,998	66,623
	PPXGn I - CL 5.10	992	943	132	46.3	46.00 to 46.99	6,662	46.0	47.0	992	992	132	141	66,623	72,000
	PPXGn I - CL 6.00	970	924	132	47.6	47.00 to 47.99	6,329	47.0	48.0	970	972	132	132	63,289	63,320

TABLE 2: VESSEL SUB-CLASS DELINATION PARAMTERS

Vessel Class	Vessel Sub-Class Description	LOA ^a	LBP ^b	Aggr. Breadth	Max MXSLLD ^c	Applied Draft Class	TEU ^d Rating	Min Draft	Max Draft	Min LOA	Max LOA	Min Breadth	Max breadth	Min DWT ^e	Max DWT
Post Panamax Gen 2	PPXGn II - CL 7.00	1,101	1,050	146	42.7	42.00 to 42.99	9,148	42.0	43.0	1,101	1,106	146	max	91,482	92,940
	PPXGn II - CL 8.00	984	929	141	44.3	44.00 to 44.99	6,332	44.0	45.0	984	989	141	142	63,320	63,870
	PPXGn II - CL 9.00	1,018	967	143	46.1	46.00 to 46.99	7,200	46.0	47.0	1,018	1,090	143	143	72,000	82,120
	PPXGn II - CL 10.00	1,090	1,043	142	47.6	47.00 to 47.99	8,212	47.0	48.0	1,090	1,099	142	143	82,120	85,277
	PPXGn II - CL 10.67	1,099	1,053	143	47.6	47.00 to 47.99	8,528	47.0	48.0	1,099	1,101	143	143	85,277	86,696
	PPXGn II - CL 10.50	1,106	1,060	143	47.6	47.00 to 47.99	8,670	47.0	48.0	1,106	1,109	143	143	86,696	87,869
	PPXGn II - CL 10.40	1,109	1,060	143	47.7	47.00 to 47.99	8,787	47.0	48.0	1,109	1,112	143	144	87,869	88,741
	PPXGn II - CL 10.33	1,112	1,060	144	47.7	47.00 to 47.99	8,874	47.0	48.0	1,112	1,114	144	144	88,741	89,161
	PPXGn II - CL 10.30	1,114	1,062	144	47.7	47.00 to 47.99	8,916	47.0	48.0	1,114	1,118	144	144	89,161	90,180
	PPXGn II - CL 10.25	1,118	1,065	144	47.7	47.00 to 47.99	9,018	47.0	48.0	1,118	1,122	144	145	90,180	91,447
	PPXGn II - CL 10.20	1,122	1,070	145	47.7	47.00 to 47.99	9,145	47.0	48.0	1,122	1,127	145	145	91,447	91,482
	PPXGn II - CL 10.15	1,127	1,075	145	47.7	47.00 to 47.99	9,294	47.0	48.0	1,127	1,139	145	145	92,940	95,132
	PPXGn II - CL 10.10	1,139	1,086	145	47.6	47.00 to 47.99	9,513	47.0	48.0	1,139	max	145	146	95,132	max

a) LOA = Length overall

b) LBP = Length between perpendiculars

c) MXSLLD = Maximum summer loadline draught

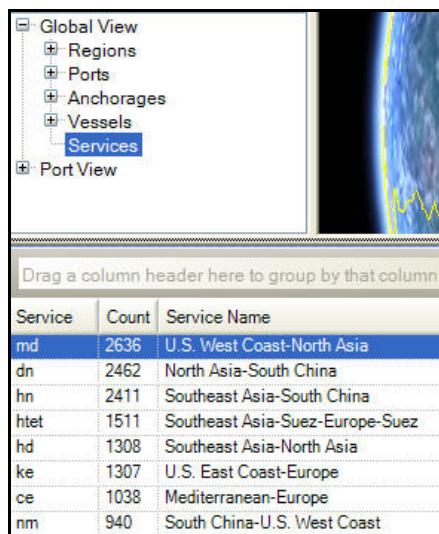
d) TEU = Twenty foot equivalent

e) DWT = Deadweight tonnage

3.3.1.5 Services

In the context of a HarborSym study, a service is a regular vessel transit across a set of regions. Services are not necessarily defined at the port level but rather represent a larger picture for the vessel. Service is a hierarchy to Route Groups, as each Route Group in a HarborSym study is associated with a service. See Section 3.3.1.2.6 for the definition of a Route Group. The Service code is a combination of the Region's that are visited along the Service. See Appendix A, Table A-1 for a listing of Region Codes to better understand a given Service.

Selecting Services in the Navigation Pane provides a listing of the service routes that have been traveled by all vessels in the A-DAPP database for all years of data. The Service, Count, and Service Name are listed in the Data Pane for all Services. The Service column provides a two letters code that represents the regions traveled to by a service and the Count column states the number of times that service was traveled by all vessels globally. Appendix A provides details on the region boundaries.



Service	Count	Service Name
nd	2636	U.S. West Coast-North Asia
dn	2462	North Asia-South China
hn	2411	Southeast Asia-South China
htet	1511	Southeast Asia-Suez-Europe-Suez
hd	1308	Southeast Asia-North Asia
ke	1307	U.S. East Coast-Europe
ce	1038	Mediterranean-Europe
nm	940	South China-U.S. West Coast

3.3.1.2 Port View

The Port View option in the tree structure allows the user to select a customer port or ports for a specified period of time for view. Upon creating the selection, the user is provided with data on vessels calling the port(s), services, services by vessel class, route groups, route groups by vessel class, port calls during the time frame, and statistics on arrival draft, time at dock, draft change, and service arrival draft. From these tree structures, reports may be generated and tables can be exported in .csv format. Any data grid available in the Data Pane can be exported by right-clicking the grid that is being viewed and selecting 'Export to CSV File'.

Please note, it is suggested that the user extends the time frame a minimum of three months before and beyond what is desired for the study so that a complete picture of the route groups and services can be created by the ADAPP.

3.3.1.2.1 Port Selection

Users will want to select a particular port for analyzing data in their study. Care should be taken to select the port(s) from the A-DAPP that correctly correspond to the user's study port. See Section 3.3.1.1.2 Ports for details on what defines a port within the A-DAPP context.

Selecting Port View from the tree structure provides two tabs in the Data Pane. The first tab, Single Port, provides options for the user to select the port and timeframe for which they would like to obtain data. [Note: At the time of this writing A-DAPP data are available for 2006-2008.] After selecting the port and setting the timeframe, click Save Changes and Create Services button to populate the tables under Port View with the data. This may take some time depending on the timeframe selected and the number of containerships calling the port during the time frame.

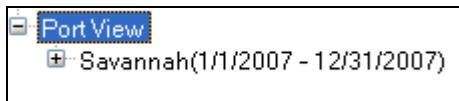
Under Port View will appear the name of the port that services were created for.

Selecting the Custom Selection tab in the Data Pane provides the user with the capability to create a custom selection and select a timeframe for the data requested. This allows the user to review data for more than one port.

If a custom selection has already been created, the ports selected in the custom selection are listed. To modify or create a custom selection, the user may either (1) select the ports manually by specifying a box around the ports or (2) select ports manually from a list.

Geographic Selection After selecting the radio button next to ‘Geographic Selection’, the user should check the box to ‘Allow Region Box Creation’. The user should then pan the map to have all desired ports within viewable the Graphic Pane. The user can then draw a box on the map to select ports by clicking and dragging with the mouse on the map. When the proper selection has been made (see the ports listed in the left table of the Data Pane), click the ‘Save Changes and Create Services’ button to populate the tables under Port View with data for the selected port(s) and time frame. This may take some time depending on the timeframe selected and the number of containerships calling the port during the time frame. Under Port View will appear the name of the port for which the data were created.

Manual Selection When the user wishes to select the ports from the drop down list, select the ‘Manual Selection’ radio button. The user will be prompted with a warning that selecting this option will clear the selected port list. If you wish to continue, select Yes, or No if you wish to cancel. After selecting Yes to continue, the user can select the ports desired for the custom selection from the drop down list and click ‘Add Port to List’. If desired, ports added to the list can be removed by selecting ‘Remove Port’. Once the desired ports are listed in the table to the left, select the ‘Save Changes and Create Services’ button to populate the tables under Port View with data for the selected port(s) and time frame. This may take some time depending on the timeframe selected and the number of containerships calling the port during the time frame. Under Port View will appear the name of the port for which the data were created, as shown in the image below.



3.3.1.2.2 Port View Overview

Auto Report Right clicking on the port name will provide an option to generate an Auto Report. Selecting this option provides a detailed report which includes: Number of Unique Vessels, Number of Calls, Arrival Draft, Time at Dock, and Draft Change for each of the vessel classes. This report may be printed or exported. Note that Draft Change is the absolute value of Arrival Draft minus Departure Draft.

Port Statistics Selecting the port name will provide the user with Selected Port Statistics in the Data Pane. Statistics are provided by containership vessel class.

	Total	Sub-Panamax	Panamax	Post-Panamax Generation 1	Post-Panamax Generation 2
Number of Unique Vessels:	335	40	142	153	0
Number of Calls:	993	132	391	470	0

Clicking the plus beside the port will provide options for Vessels, Services, Vessel Class Services, Route Groups, Vessel Class Route Groups, Calls, and Statistics in the Navigation Pane.

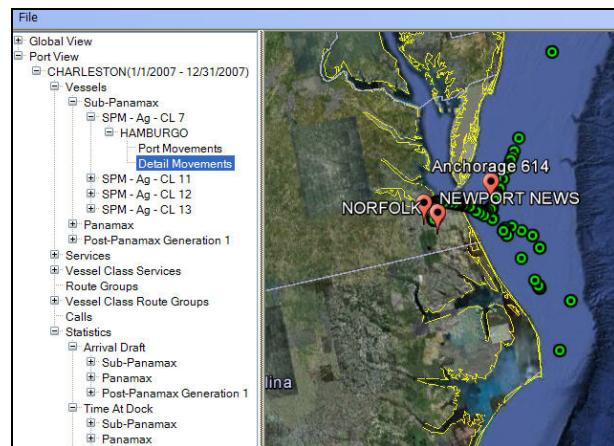
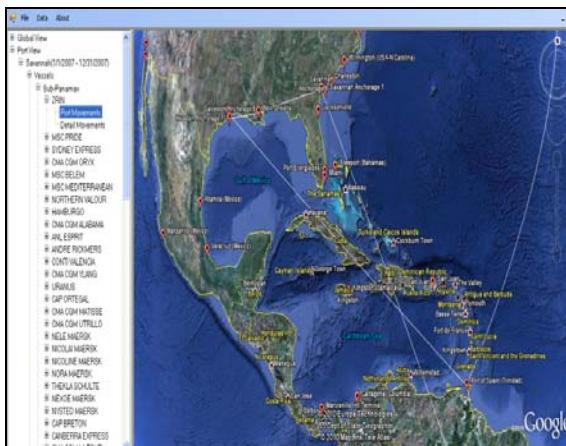
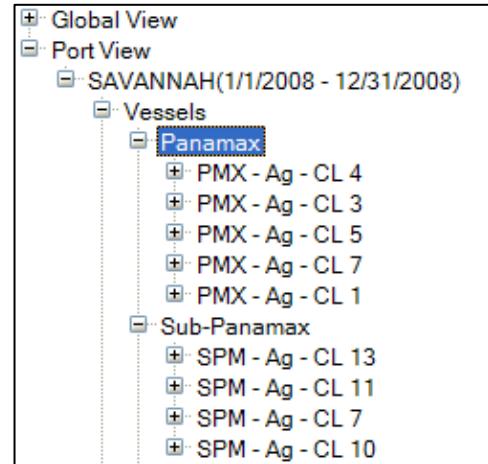
3.3.1.2.3 Vessels

When selecting Vessels under the Port View tree structure, the user can view data regarding vessels by vessel class, subclass, and for each unique vessel. This data can be exported from the data grid by right-clicking anywhere in the data grid and selecting 'Export to CSV'. Vessel classes are predefined within the A-DAPP structure as Panamax, Sub-Panamax, Post-Panamax

Generation I, and Post-Panamax Generation II. Vessel subclasses are also predefined. See Section 3.3.1.1.4 for additional details on vessel class and subclass.

Clicking on a vessel class will provide details in the Data Pane such as the IMO Number, Vessel Name, Vessel Class, Vessel Subclass, Route, and the Route Decoded for each of the vessels within the class. Clicking the plus sign next to the vessel class will provide the subclasses within the vessel class. Within each of the vessel subclasses is a detailed list of vessels.

Selecting a specific vessel allows the user to also examine a vessel's port movements and detail movements. Ports Movements provides visual representation of the services traveled while Detail Movements provides information for each time the vessel was pinged. Each ping is represented by a green circle in the Graphics Pane. Selecting a green circle from the Graphics Pane will provide the vessel name, vessel draft, vessel speed, the heading, and the date and time of the ping. When several green circles are very close together, clicking in the area of the green circles will cause them to spread out so that each individual ping may be explored more fully. Data on the pings are also provided in the Data Pane.



3.3.1.2.4 Services

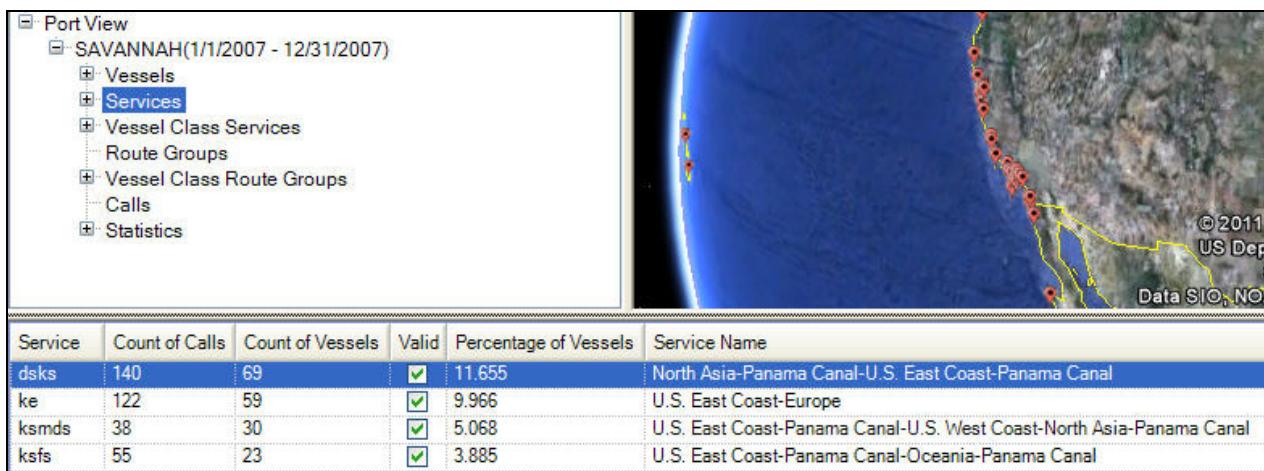
In the context of a HarborSym study, a service is a regular vessel transit across a set of regions. Services are not necessarily defined at the port level but rather represent a larger-picture for the vessel. Service is a hierarchy to Route Groups, as each Route Group in a HarborSym study is associated with a service. See Section 3.3.1.2.6 for the definition of a Route Group. The Service

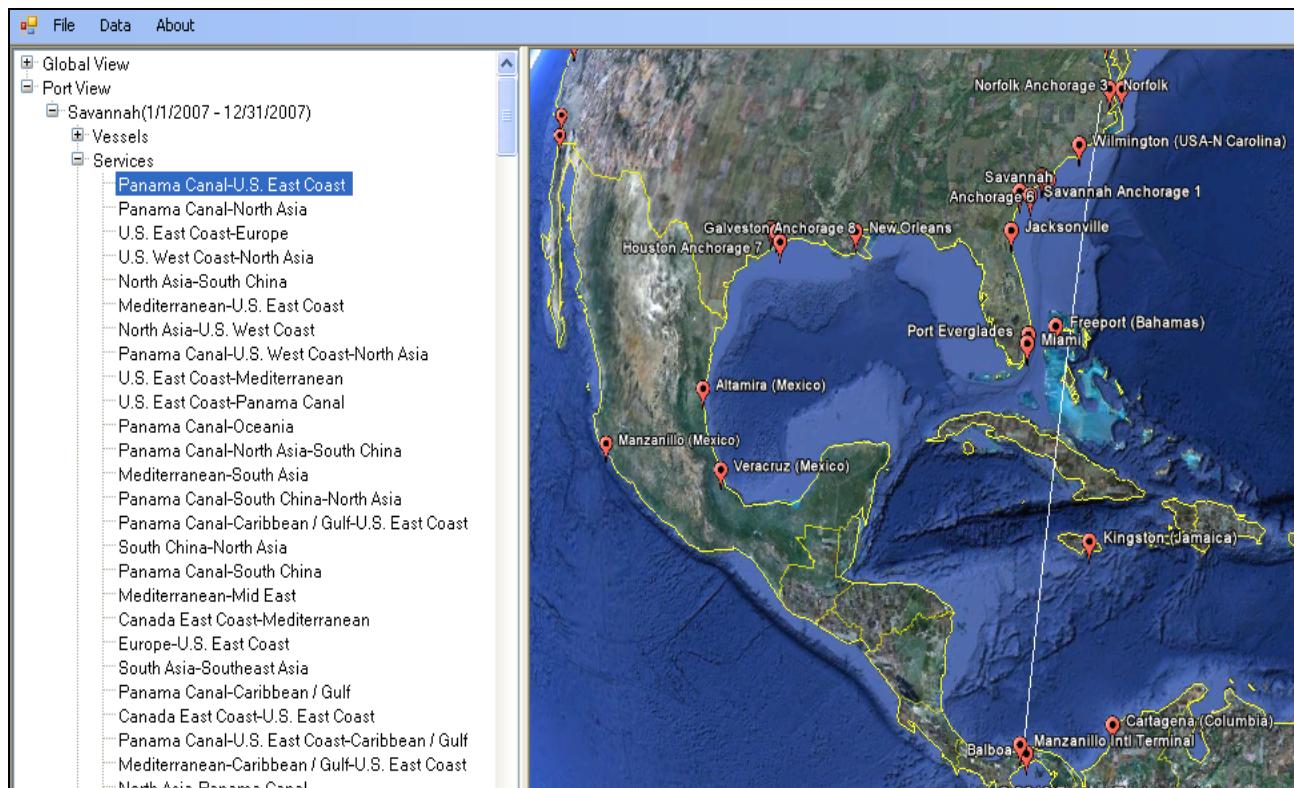
code is a combination of the Region's that are visited along the Service. See Appendix A Table A-1 for a listing of Region Codes to better understand a given Service.

Selecting Services under Port View will enable the user to see a list of all the trade service routes that vessels calling the port of study have taken over the time frame specified. This data can be exported from the data grid by right-clicking anywhere in the data grid and selecting 'Export to CSV'.

Note, it is suggested that the user extends the time frame a minimum of three months before and beyond what is desired for the study so that a complete picture of the services can be created by the A-DAPP.

In the Data Pane, data will appear showing the Service (code), Service Name, Count of Calls, Count of Vessels, and Percentage of Vessels. The user is also provided with a "Valid" checkbox. By default, services are valid if traversed once every other month. So, for example, if twelve months of data are being viewed, only services with a count of six or more will be marked as valid and included in the statistics available under Port View. The user may review which services are valid and select/deselect as appropriate for a given study. **Note that services indicated as "invalid" are not included in the percentage of vessels calculation or the statistics found under Vessel Class Services.** After changing the valid indication for a given service, the user must click on another option in the tree structure and then back to the Services option for the statistics to update. Dropping down the list of Services and selecting one displays a map of the service in the Graphic Pane.



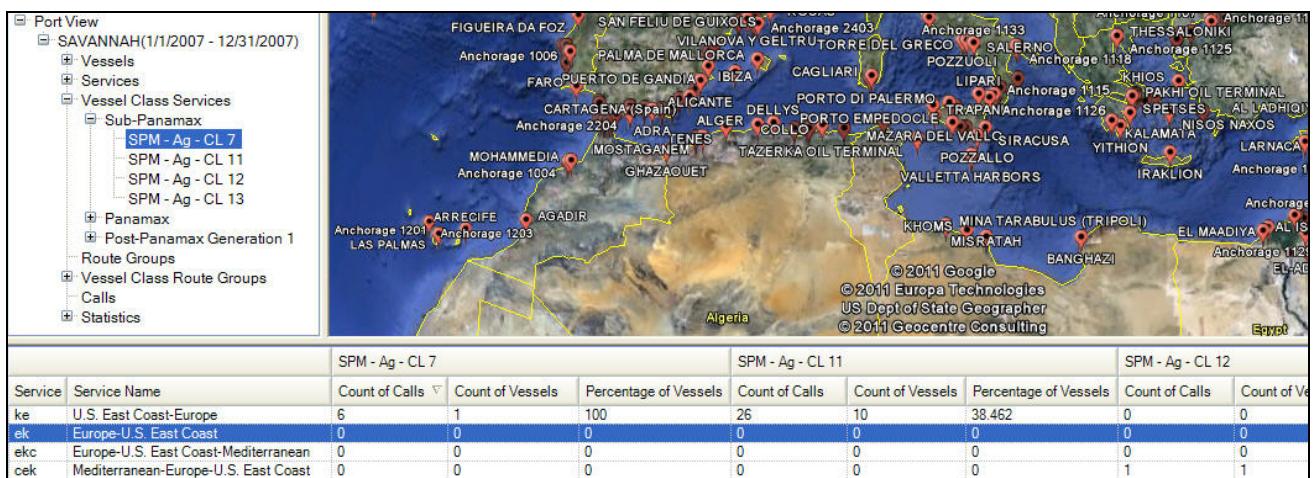


3.3.1.2.5 Vessel Class Services

Selecting Vessel Class Services under Port View will provide data regarding services by vessel class. When Vessel Class is selected, the Data Pane will display the Service (code), Service Name, Count of Vessel Calls, Count of Vessels, and Percentage of Vessels on a given valid service for the time frame specified. This information can also be viewed for vessel class and vessel subclass by selecting the plus next to the nodes in the Navigation Pane. Note that vessels traversing a service marked as invalid are not counted in the statistics. The data viewable in the data grid at any class level may be exported by right-clicking anywhere in the data grid and selecting 'Export to CSV'.



Vessels				
Service	Service Name	Count of Calls	Count of Vessels	Percentage of Vessels
dsks	North Asia-Panama Canal-U.S. East Coast-Panama Canal	140	69	19.8275862068966
ke	U.S. East Coast-Europe	122	59	16.9540229885057
ksfs	U.S. East Coast-Panama Canal-Oceania-Panama Canal	55	23	6.60919540229885
ck	Mediterranean-U.S. East Coast	54	21	6.03448275862069
ksmds	U.S. East Coast-Panama Canal-U.S. West Coast-North Asia-Panama Canal	38	30	8.62068965517241



3.3.1.2.6 Route Groups

Economic analysis of channel deepening alternatives requires additional information for each vessel call, specifying the ocean sailing distance to be assigned to the call. HarborSym uses the concept of “route groups” as an alternative to directly specifying this distance for each vessel call. A Route Group is a named itinerary or portion thereof that a vessel may travel before and after visiting the port under study. Itineraries can be defined generally by larger geographic areas or more specifically when individual ports are known. If exact port-to-port itineraries are known, then the distance can be fixed, otherwise, a triangular distribution of distances can be specified. The Route Group Name is in relation to the port of study and is the exact combination of the following:

Prior Port | Next Port | Region_i – Region_n

Port and region codes, where available, are used to abbreviate the text in a Route Group Name. A summary of port and region information including codes is provided in Appendix A. The full port names are provided in the Prior Port and Next Port columns with the country of the port in parenthesis. The Description column provides the full names of locations associated with the prior and next ports and the regions. Regions are provided in chronological order until the vessel returns to the port of study’s region. The A-DAPP provides the count of calls and vessels traversing a given route group.

As an example, the Route Group Name “USNFF | ESALG | SUEZ-SAS-SUEZ-MED” indicates that a vessel traversing this route began in Norfolk, Virginia, and then traveled to the port of study (located on the eastern coast of the U.S. in our example). The vessel then traveled to the Port of Algeciras in Spain, which is located in the Mediterranean region (note that ‘MED’ is not included in the first position of the Region String). Next, the vessel sailed to a port or ports in South Asia stopping at a port(s) in the Suez Canal region, returning to a port(s) in the Mediterranean, again, stopping in the Suez Canal region. Finally, the vessel returned to the eastern coast of the U.S.

When selecting the Route Groups option in the tree structure, in the data pane is a field for Additional Sea Distance. This information is useful for a HarborSym Deepening study and must be calculated for each Route Group. The Additional Sea Distance is estimated given a matrix stored in the ADAPP structure that identifies average sailing distances between ADAPP regions. Additional Sea Distance is calculated based on the following assumptions:

- The Additional Sea Distance is the sum of the distance from the Next Port’s region to the next region listed under “Additional Regions”, then from that region to the next listed, and so on.

- If the Prior Port Region is equal to the last region listed, then the distance from the last region to the port of study region is NOT included in the Additional Sea Distance. This distance will be captured in a HarborSym study through the Prior Port Sailing Distance.
- If the Prior Port Region does NOT equal the last region listed, then the distance from the last region to the port of study region is included in the additional sea distance. Note the example Route Group PACTB | PORT RICHMOND SI | EUR. For this route group the vessel path is Port Puerto Crisobal (Panama) to Port Savannah (U.S. East Coast) to Port Richmond Staten Island (U.S. East Coast) to an unnamed port in Europe returning to Port Savannah (U.S. East Coast). Thus, the distance from last region visited to the region of the port of study is included in the Additional Sea Distance.
- The Additional Sea Distance does not include the sailing distance from the port of study to/from the Prior and Next Port. Also, note that the Additional Sea Distance does not capture port to port movements that are possible between regions.
- In the above example: “USNFF | ESALG | SUEZ-SAS-SUEZ-MED”, the Additional Sea Distance would be calculated as:

(MED to SUEZ) + (SUEZ to SAS) + (SAS to SUEZ) + (SUEZ to MED) + (MED to USEC)

Note that the Additional Regions column may be blank and no region string is included in the Route Group Name. This indicates that no additional regions were traveled beyond the port of study's region. If the prior and next ports are in the same region as the port of study, and the Additional Regions field is blank, then the Additional Sea Distance should be zero.

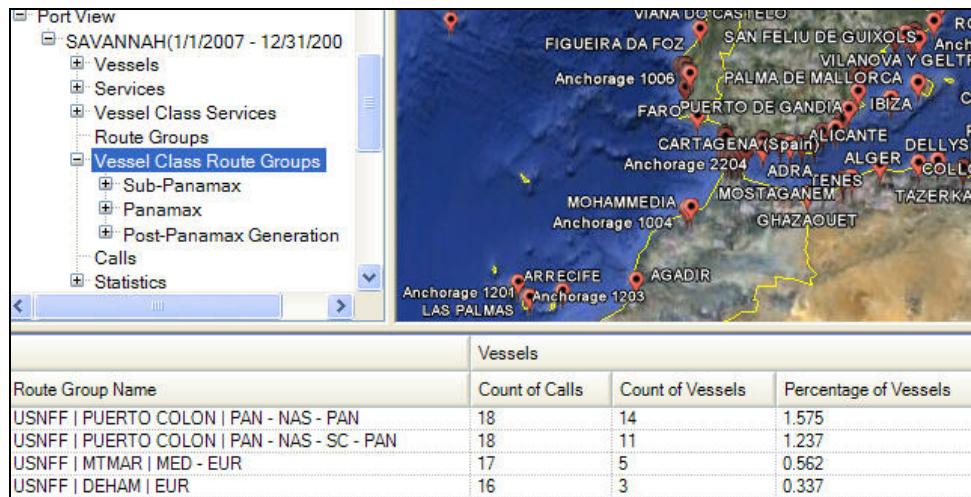
The purpose of the Route Group information provided in the A-DAPP under Port View/Route Group is to aid the user in developing data needed for a deep draft navigation study. Prior and next port delineation is used to determine the limiting depth of and sailing distance to the prior and next port along a vessel's route. The region string can be used to calculate the additional at-sea distance traveled by vessel's on a given Route Group.

The Route Groups option under Port View provides the user with a listing of all Route Groups traversed by the vessels calling the port of study during the specified time frame. The data viewable in the Data Pane may be exported by right-clicking anywhere in the data grid and selecting 'Export to CSV'. *Note, it is suggested that the user extends the time frame a minimum of three months before and beyond what is desired for the study so that a complete picture of the route groups be created by the ADAPP.*

Route Group Name	Prior Port	Next Port	Additional Regions	Additional Sea Distance	Count of Calls	Count of Vessels	Full Description
PACTB USEWR	PUERTO CRISTOBAL (Panama)	NEWARK (United States)		1656	57	23	PUERTO CRISTOBAL (Panama) NEWAR
USNFF PUERTO COLON SC - PAN	NORFOLK (United States)	PUERTO COLON (Panama)	SC - PAN	20046	54	27	NORFOLK (United States) PUERTO COU
PUERTO COLON USEWR	PUERTO COLON (Panama)	NEWARK (United States)		1656	51	22	PUERTO COLON (Panama) NEWARK (U
USBAY USNFF	BAYONNE (United States)	NORFOLK (United States)		0	43	11	BAYONNE (United States) NORFOLK (U
USEZB USNFF	ELIZABETHPORT (United States)	NORFOLK (United States)		0	38	11	ELIZABETHPORT (United States) NORF
PUERTO COLON USNFF	PUERTO COLON (Panama)	NORFOLK (United States)		1656	38	19	PUERTO COLON (Panama) NORFOLK (U
PACTB PORT RICHMOND SI	PUERTO CRISTOBAL (Panama)	PORT RICHMOND SI (United St.		1656	32	16	PUERTO CRISTOBAL (Panama) PORT R
PUERTO COLON USG2C	PUERTO COLON (Panama)	GLoucester (United States)		1656	27	18	PUERTO COLON (Panama) GLOUCEST
CoeBQ USG2C	EL BOSQUE (Colombia)	GLoucester (United States)		3643	26	16	EL BOSQUE (Colombia) GLOUCEST
USNFF PACTB SC - PAN	NORFOLK (United States)	PUERTO CRISTOBAL (Panama)	SC - PAN	20046	25	18	NORFOLK (United States) PUERTO CR
USNFF MTMAR EUR	NORFOLK (United States)	MARSAXLOKK (Malta)		EUR	6753	24	NORFOLK (United States) MARSAXLO
USNFF PUERTO COLON WCUS - N.	NORFOLK (United States)	PUERTO COLON (Panama)	WCUS - NAS - SC -	20250	21	12	NORFOLK (United States) PUERTO CO
USNFF PUERTO COLON NAS - SC	NORFOLK (United States)	PUERTO COLON (Panama)	NAS - SC - PAN	20665	21	9	NORFOLK (United States) PUERTO CO

3.3.1.2.7 Vessel Class Route Groups

Selecting Vessel Class Route Group under Port View will provide data regarding route groups by vessel class. When Vessel Class Route Group is selected, the Data Pane will display the Route Group Name, Count of Vessel Calls, Count of Vessels, and Percentage of Vessels on a given route group for the time frame specified. As with the Vessel Class Services, Route Group data also viewed for vessel class and vessel subclass by drilling into the tree node in the Navigation Pane, see Section 3.3.1.2.5. The data viewable in the Data Pane at any class level may be exported by right-clicking anywhere in the data grid and selecting 'Export to CSV'.



3.3.1.2.8 Calls

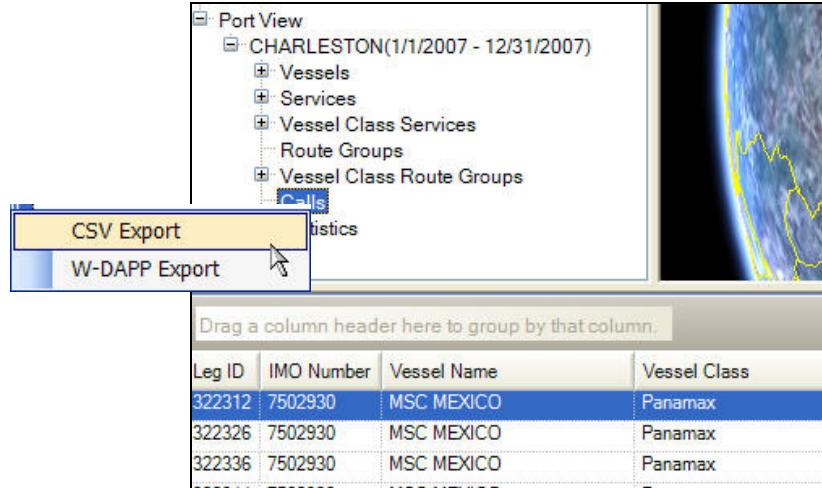
Vessel Calls, as defined in a HarborSym study, is a single port visit by a vessel where dock visit(s) and commodity transfers occur.

The data provided under Port View/Calls is information on all of the vessels calling at the selected port during the specified time frame. Data provided includes: Leg ID, IMO Number,

Vessel Name, Vessel Class, Vessel Subclass, Destination Name, Arrival Date/Time, Arrival Draft, Departure Draft, Time at Destination, Latitude, Longitude, Route Group, and Services.

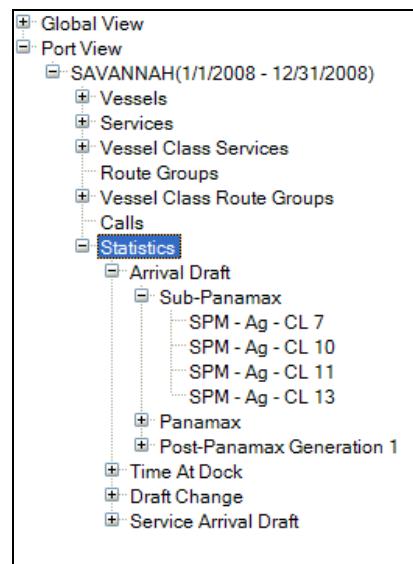
Right clicking on Calls also allows for the data to be exported to a .csv File. Two options are available, one for exporting to a CSV and another to create a W-DAPP export. If the option 'CSV Export' is selected, a data grid exact to that shown in the data pane will be created. If the option 'W-DAPP Export' is selected, a CSV file will be created in the format predetermined for use by the W-DAPP application. In either instance, the user will be prompted to enter a name and select a location for the file. After selecting the location and entering the name, click Save.

Leg ID	IMO Number	Vessel Name	Vessel Class	Vessel Subclass	Destination Name	Arrival Date	Arrival Time	Arrival Draft	Departure Draft	Time at Destination	Latitude	Longitude	Route Group	Services
322312	7502930	MSC MEXICO	Panamax	PMX - Ag - CL 1	CHARLESTON	04/18/2007	10:58 PM	34.78	36.09	9.12.01.00	32.832...	-79.892...	USNFF ESVLC EUR	ekc
322326	7502930	MSC MEXICO	Panamax	PMX - Ag - CL 1	CHARLESTON	06/30/2007	11:58 AM	36.09	36.09	17:01.00	32.833...	-79.891...	USNFF ESVLC EUR	ck
322336	7502930	MSC MEXICO	Panamax	PMX - Ag - CL 1	CHARLESTON	08/10/2007	2:56 AM	32.15	32.48	10:03.00	32.830...	-79.893...	USNFF ESVLC EUR	ekc
322344	7502930	MSC MEXICO	Panamax	PMX - Ag - CL 1	CHARLESTON	09/17/2007	9:59 AM	33.14	34.45	18:00.00	32.8321	-79.892...	USNFF ESVLC	ekc
322353	7502930	MSC MEXICO	Panamax	PMX - Ag - CL 1	CHARLESTON	10/23/2007	3:56 AM	29.53	29.53	07:54.00	32.833...	-79.891...	USNFF ESVLC EUR	ck



3.3.1.2.9 Statistics

Statistics can be obtained for Arrival Draft, Time at Dock, Draft Change, and Service Arrival Draft for each of the vessel classes and subclasses visiting the port. Clicking on a vessel class and/or drilling down into vessel subclass will provide statistical information for that vessel class or subclass within the chosen statistical category, including a Cumulative Distribution Function (CDF) graphic and table. To better view the graph in the data pane it is possible to minimize the Navigation and Graphics Pane. Clicking on the horizontal and vertical bars dividing the panes will allow the screen to be adjusted accordingly. Right clicking on any of the CDF graphs will provide the user with different viewing options for the graph. Within the list of options is Export Dialog. The Export Dialog option allows the user to export the CDF graph. The user decides how the data will be exported, the destination, and the size.



3.3.2 Graphics Pane

The Graphics Pane has a Google Earth interface that provides satellite imagery for the area of interest. From this screen it is also possible to adjust the zoom, pan and move around the globe, and to adjust the view of the globe.



Moving the cursor over to the upper right hand corner of the screen will make the Navigation Tool appear and moving away will make it disappear. The Navigation Tool has the following functions:

Zooming In and Out – The Zoom function is located at the bottom of the Navigation Tool. Clicking the plus and minus buttons will zoom in and out accordingly. The user may also use the slider option for zooming.

Looking – The Look function is located at the top of the Navigation Tool, it has an eye in the center. To look left, click right. To look right, click left. To look up, click up and to look down, click down. To return to the standard compass view simply click on N for North.

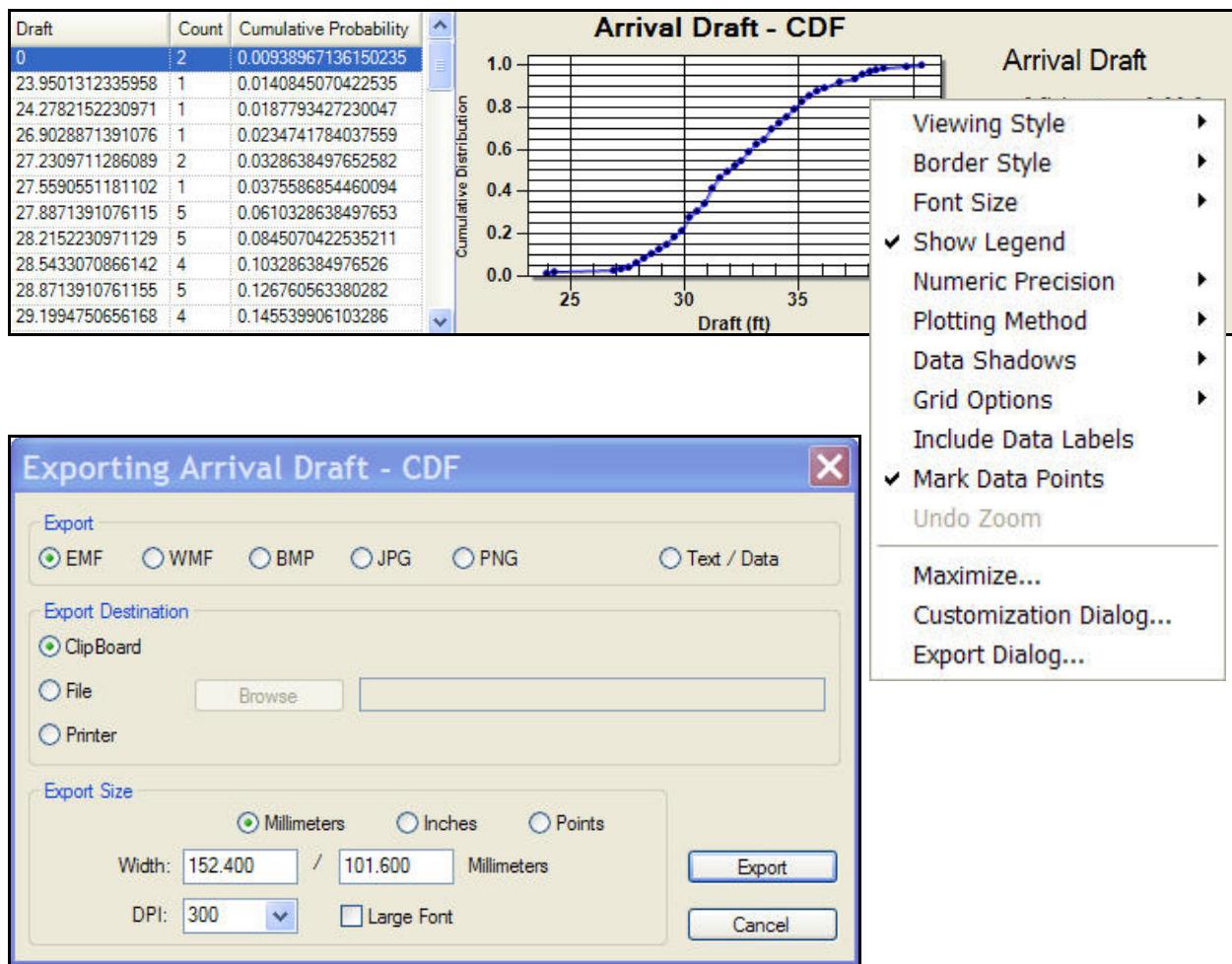
Moving – The Move function is in the middle of the Navigation Tool, it has a hand in the center. Clicking on the arrows surrounding the hand will allow the user to move about the image. Holding down the left click and moving the mouse will also allow the user to move about the image.

3.3.3 Data Pane

The Data Pane provides information related to what is currently selected in the Navigation Pane. For details on what appears when various options are selected in the Navigation Pane, please see the section of the user's manual related to that selection.

Export Data Grids to CSV When data grids are provided in the Data Pane, Right clicking in the grid will provide the Export to .csv option. This allows the user to export data displayed in the Data Pane to a csv file. After selecting this option the user is able to enter a name for the .csv file and select a location to save this file. After clicking Save, the file will be created and available for the user to open.

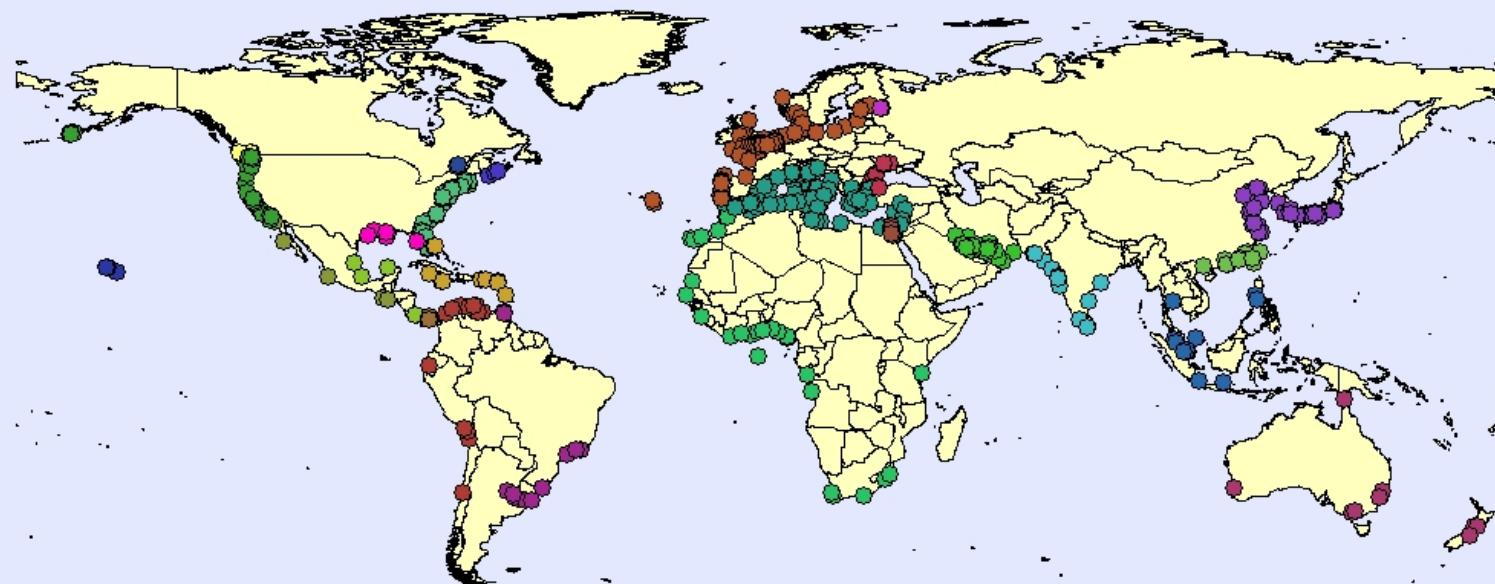
Graph Export When a graphic is provided in the Data Pane, Right clicking in the graph will provide the option to change how the graph appears or to export the graph to another format. To export the graphic, chose 'Export Dialog...'. When selected, an export dialog will appear allowing the user to specify the file type and destination for the export as well as export size. Either the image of the graph or the data used to create the graph (select Text/Data) can be exported. See images below for reference.



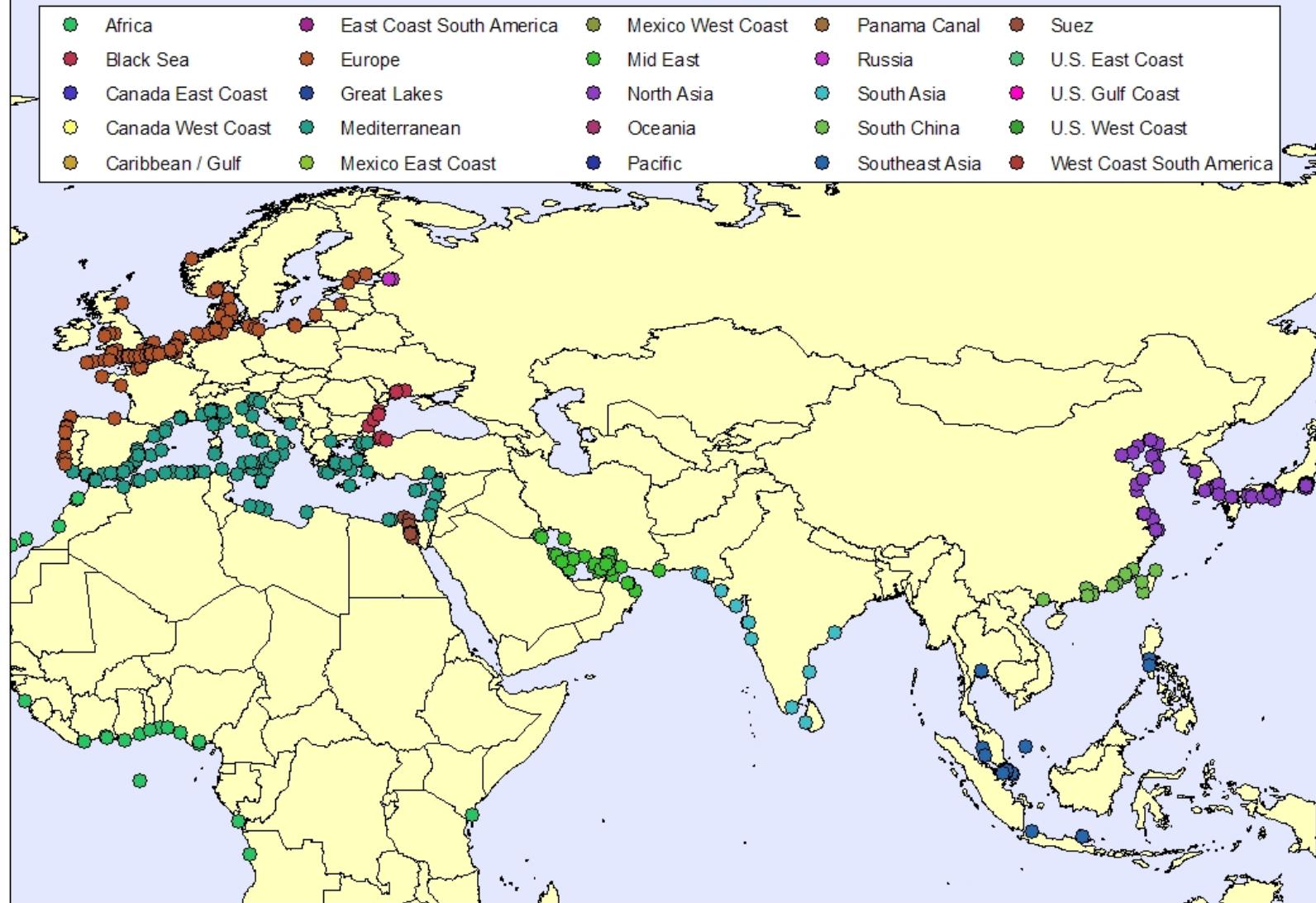
Appendix A: A-DAPP Port and Region Codes

A-DAPP Ports and Regions

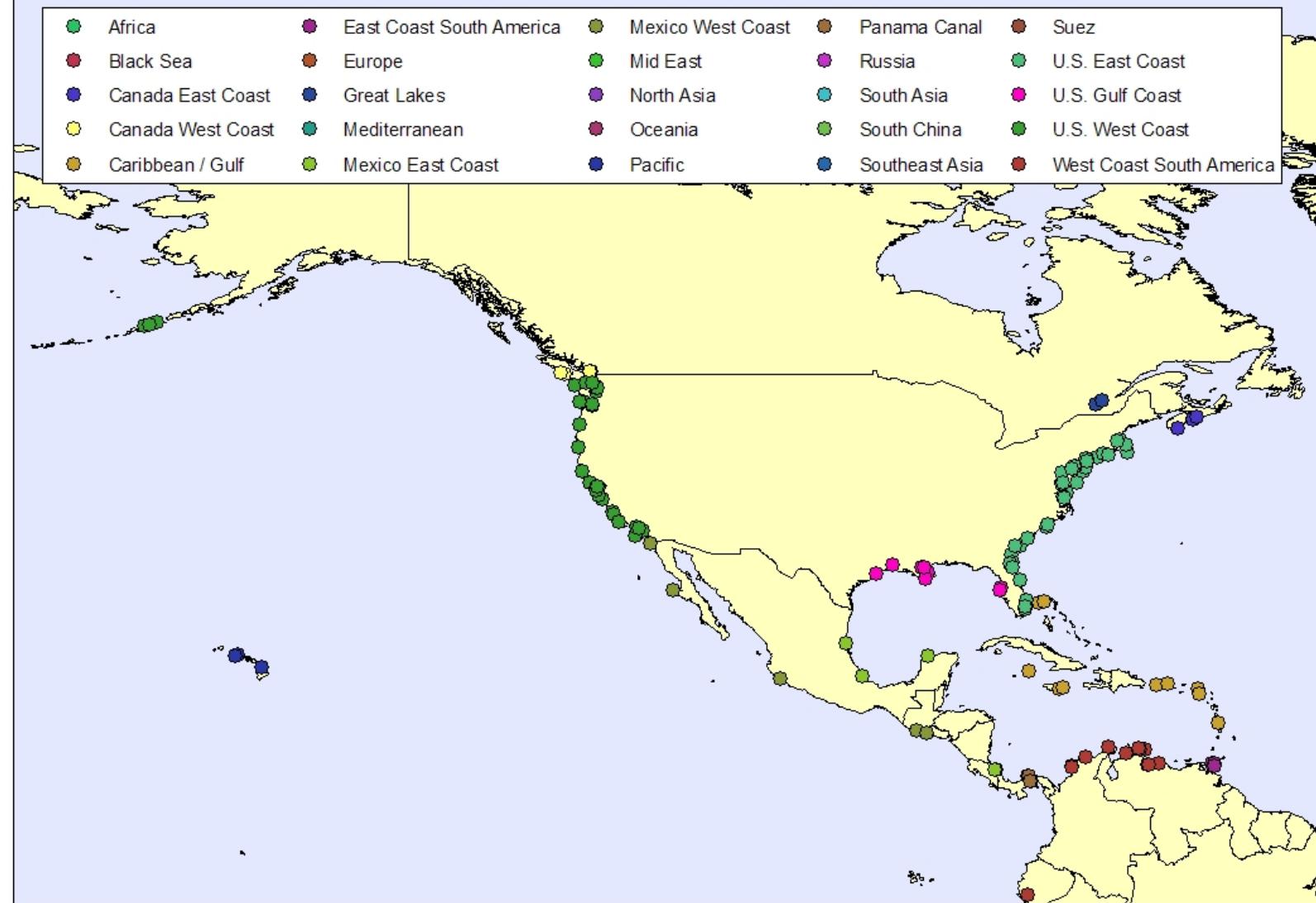
● Africa	● East Coast South America	● Mexico West Coast	● Panama Canal	● Suez
● Black Sea	● Europe	● Mid East	● Russia	● U.S. East Coast
● Canada East Coast	● Great Lakes	● North Asia	● South Asia	● U.S. Gulf Coast
● Canada West Coast	● Mediterranean	● Oceania	● South China	● U.S. West Coast
● Caribbean / Gulf	● Mexico East Coast	● Pacific	● Southeast Asia	● West Coast South America



A-DAPP Ports and Regions, Detailed A



A-DAPP Ports and Regions, Detailed B



A-DAPP Ports and Regions, Detailed C

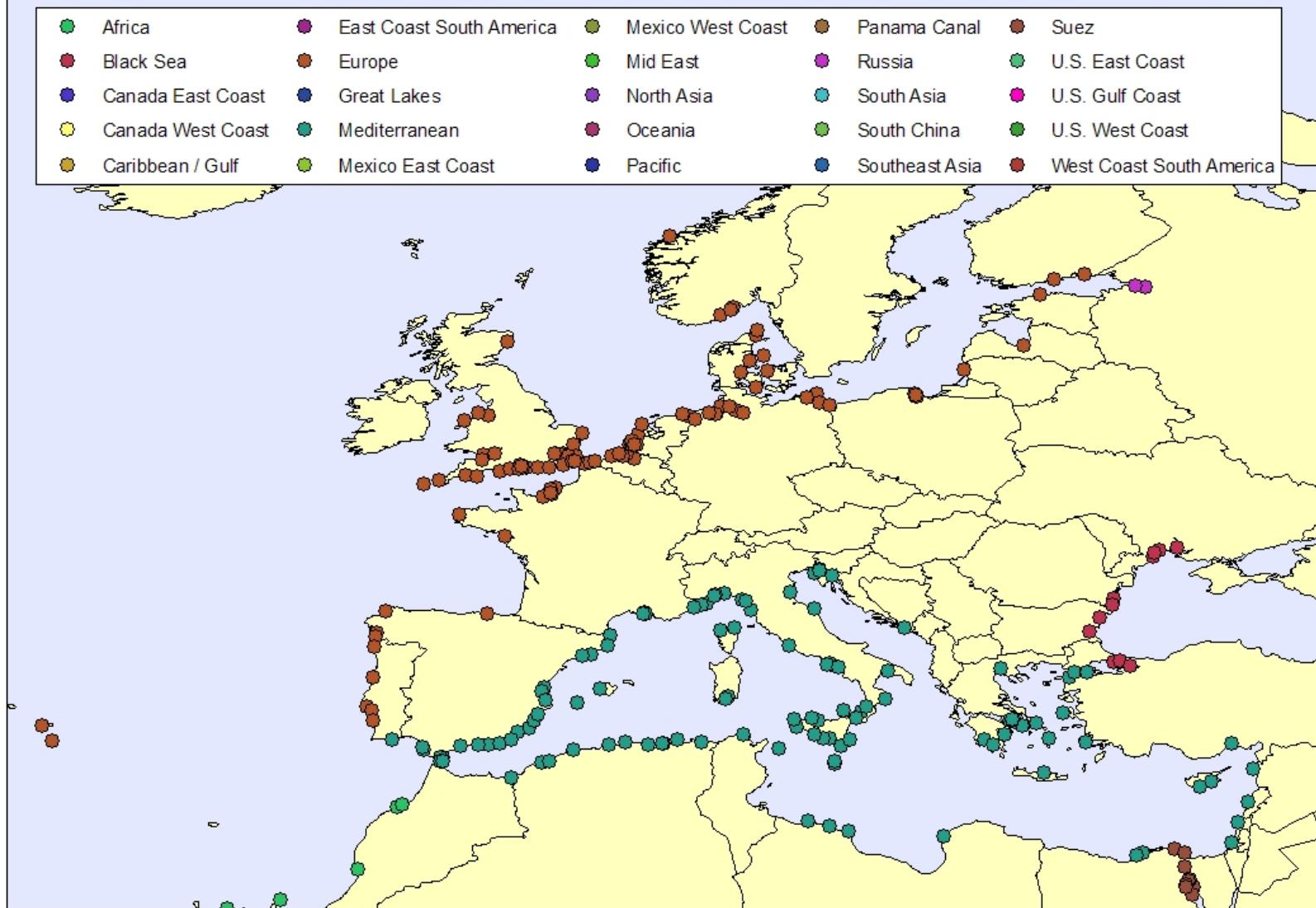


Table A-1: Region Name and Code Look-up

Region Name	Region Code	Region Abbrev
West Coast South America	i	WCSA
Black Sea	o	BLS
Caribbean / Gulf	p	CAR
Canada East Coast	q	CEC
Mediterranean	c	MED
U.S. Gulf Coast	l	GCUS
Europe	e	EUR
East Coast South America	b	ECSA
Canada West Coast	r	CWC
Mid East	j	MID
North Asia	d	NAS
Oceania	f	OCE
South Asia	g	SAS
South China	n	SC
Southeast Asia	h	SEA
Mexico West Coast	u	WCME
U.S. East Coast	k	USEC
U.S. West Coast	m	WCUS
Africa	a	AFR
Panama Canal	s	PAN
Suez	t	SUEZ
Mexico East Coast	v	ECME
Russia	w	RUS
Canada North Coast	x	CNC
Iceland / Greenland	y	ILGL
GreatLakes	z	GL
Pacific	1	PCFC
Undefined	9	UND

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name

Destination Name	Country	Port Code	Region Name
ABERDEEN (UK)	United Kingdom	GBABD	Europe
ACAJUTLA	El Salvador	SVAQJ	Mexico West Coast
ACAJUTLA OFFSHORE TERMINAL	El Salvador	SVAQJ	Mexico West Coast
ADRA	Spain	ESADR	Mediterranean
AGADIR	Morocco	MAAGA	Africa
AGUADILLA	Puerto Rico	PRBQN	Caribbean / Gulf
AIN SUKHNA TERMINAL	Egypt	EGAIS	Suez
AKUTAN HARBOR	United States	USAKU	U.S. West Coast
AL HAMRIYAH LPG TERMINAL	United Arab Emirates	AEHAM	Mid East
AL ISKANDARIYH (ALEXANDRIA)	Egypt		Mediterranean
AL JAZEERA PORT	United Arab Emirates		Mid East
AL JUBAYL	Saudi Arabia	SAJBI	Mid East
AL KUWAYT	Kuwait		Mid East
AL LADHIQIYAH	Syria	SYALD	Mediterranean
AL RAYYAN TERMINAL	Qatar		Mid East
AL SHAHEEN TERMINAL	Qatar	XZSHA	Mid East
ALAMEDA	United States	USNGZ	U.S. West Coast
ALESUND	Norway	NOAeS	Europe
ALGECIRAS	Spain	ESALG	Mediterranean
ALGER	Algeria	DZALG	Mediterranean
ALICANTE	Spain	ESALC	Mediterranean
ALMERIA	Spain	ESLEI	Mediterranean
ALTAMIRA	Mexico	MXATM	Mexico East Coast
AMBARLI	Turkey	TRAMB	Black Sea
ANCONA	Italy	ITAOI	Mediterranean
ANNABA	Algeria	DZAAE	Mediterranean
ANTWERPEN	Belgium	BEANR	Europe
ARENDAL	Norway	NOARE	Europe
ARHUS	Denmark	DKAAR	Europe
ARRECIFE	Spain		Africa
ARZEW	Algeria	DZAZW	Mediterranean
AS SUWAYS	Egypt		Suez
ASH SHARIQAH	United Arab Emirates		Mid East
ASHDOD	Israel	ASH	Mediterranean
ASPROPIRGOS	Greece	GRASS	Mediterranean
ATLANTIC CITY	United States	USAIIY	U.S. East Coast
AVALON	United States	USAOU	U.S. West Coast
AVONMOUTH	United Kingdom	GBAVO	Europe
AYIOS NIKOLAOS	Greece	GRAGF	Mediterranean

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name (Cont.)

Destination Name	Country	Port Code	Region Name
BAGNOLI	Italy	ITBLN	Mediterranean
BAHIA DE LAS MINAS	Panama	PAPBM	Panama Canal
BAHIA DE VALPARAISO	Chile		West Coast South America
BALBOA	Panama	PABLB	Panama Canal
BALTIMORE	United States	USBAL	U.S. East Coast
BANDAR ABBAS	Iran	IRBND	Mid East
BANDAR-E SHAHID REAJIE	Iran	IRBSR	Mid East
BANGHAZI	Libya	SYBEN	Mediterranean
BANZART	Tunisia		Mediterranean
BARBERS POINT TERMINAL	United States	USNAX	Pacific
BARCELONA	Spain	ESBCN	Mediterranean
BARNEGAT	United States	USBG7	U.S. East Coast
BARRY	United Kingdom	GBBYG	Europe
BASTIA	France	FRBIA	Mediterranean
BATANGAS CITY	Philippines	PHBTG	Southeast Asia
BAYONNE	United States	USBAY	U.S. East Coast
BAYRUT	Lebanon		Mediterranean
BAYUQUAN	China	CNBAY	North Asia
BAYWAY	United States		U.S. East Coast
BEAUFORT	United States	USBFO	U.S. East Coast
BEJAIA	Algeria	DZBJA	Mediterranean
BELANAK FIELD TERMINAL	Indonesia	IDBNT	Southeast Asia
BODEGA BAY	United States	USDHB	U.S. West Coast
BONNY	Nigeria	NGBON	Africa
BOSTON	United States	USBOS	U.S. East Coast
BOTANY BAY	Australia	AUBTB	Oceania
BREMERHAVEN	Germany	DEBRV	Europe
BROOKLYN	United States	USAFFZ	U.S. East Coast
BRUNSBUTTEL ELBAHAFEN	Germany	DEBRB	Europe
BRUNSWICK	United States	USBCK	U.S. East Coast
BUENOS AIRES	Argentina	ARBUE	East Coast South America
BUR SAID (PORT SAID)	Egypt	EGPSD	Suez
BURGAS	Bulgaria	BGBOJ	Black Sea
BUSHEHR	Iran	IRBUZ	Mid East
BUTZFLETH	Germany	DEBUZ	Europe
CADIZ	Spain	ESCAD	Mediterranean
CAERNARVON	United Kingdom	GBCNV	Europe
CAGLIARI	Italy	ITCAG	Mediterranean

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name (Cont.)

Destination Name	Country	Port Code	Region Name
CALAIS	France	FRCQF	Europe
CALVI	France	FRCLY	Mediterranean
CAMPANA	Argentina	ARCMF	East Coast South America
CANAKKALE	Turkey	TRCKZ	Mediterranean
CANAVERAL HARBOR	United States	USCPV	U.S. East Coast
CAPE CHARLES	United States	USCCJ	U.S. East Coast
CAPE TOWN	South Africa	ZACPT	Africa
CARACASBAAI	Netherlands Antilles	ANCRB	West Coast South America
CARTAGENA (Columbia)	Colombia	COCTG	West Coast South America
CARTAGENA (Spain)	Spain	ESCAR	Mediterranean
CASABLANCA	Morocco	MACAS	Africa
CAYMAN BRAC	Cayman Islands	KYCYB	Caribbean / Gulf
CHAGUARAMAS	Trinidad and Tobago	TTCHA	East Coast South America
CHANGSHU	China	CNCGU	North Asia
CHAOZHOU	China	CNCOZ	South China
CHARLESTON	United States	USCHS	U.S. East Coast
CHENNAI (MADRAS)	India		South Asia
CHI-LUNG	Taiwan		South China
CHINAE	Korea, South		North Asia
CLAYOQUOT	Canada		Canada West Coast
COLES BAY OIL TERMINAL	Netherlands Antilles		Caribbean / Gulf
COLLO	Algeria	DZCOL	Mediterranean
COLOMBO	Sri Lanka	LKCMF	South Asia
CONAKRY	Guinea	GNCKY	Africa
CONSTANTA	Romania	ROCND	Black Sea
COTONOU	Benin	BJCOO	Africa
COWES HARBOUR	United Kingdom	GBCOW	Europe
CRESCENT CITY	United States	USCEC	U.S. West Coast
CROTONE	Italy	ITCRV	Mediterranean
CUETA	Spain	ESCEU	Mediterranean
CUXHAVEN	Germany	DECUX	Europe
DAKAR	Senegal	SNDKR	Africa
DALIAN	China	CNDLC	North Asia
DAMIETTA	Egypt	EGDMT	Suez
DAMMAM	Saudi Arabia		Mid East
DARTMOUTH HARBOUR	United Kingdom	GBDTM	Europe
DAVENPORT	United States	USDAV	U.S. West Coast
DEEPWATER POINT	United States	USDPW	U.S. East Coast
DELLYS	Algeria	DZDEL	Mediterranean

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name (Cont.)

Destination Name	Country	Port Code	Region Name
DEN HELDER	Netherlands	NLDHR	Europe
DESTREHAN	United States	USNEW	U.S. Gulf Coast
DJEN-DJEN	Algeria	DZDJE	Mediterranean
DNIPRO-BUZKYY	Ukraine		Black Sea
DOHA	Qatar	QADOH	Mid East
DOVER HARBOR	United Kingdom	GBDVR	Europe
DTSE / GEGUA OIL TERMINAL	Brazil		East Coast South America
DUBAYY	United Arab Emirates	AEDXB	Mid East
DUBROVNIK	Croatia	HRDBV	Mediterranean
DUNKERQUE PORT OUEST	France	FRDKK	Europe
DURBAN	South Africa	ZADUR	Africa
DUTCH HARBOR	United States	USDUT	U.S. West Coast
EDWARDS POINT	United States	USDWP	U.S. West Coast
EEMSHAVEN	Netherlands	NLEEM	Europe
EL BOSQUE	Colombia	COEBQ	West Coast South America
EL ISMAILIYA	Egypt		Suez
EL MAADIYA	Egypt		Mediterranean
EL PALITO	Venezuela	VEELP	West Coast South America
EL SEGUNDO	United States	USELS	U.S. West Coast
EL-ADABIYA	Egypt		Suez
ELEVSIS	Greece	GRELE	Mediterranean
ELIZABETHPORT	United States	USEZ8	U.S. East Coast
EMDEN	Germany	DEEME	Europe
EUROPA POINT	Gibraltar		Mediterranean
EUROPOORT	Netherlands	NLEUR	Europe
FANG-CHENG	China	CNFAN	South China
FARO	Portugal	PTFAO	Mediterranean
FATEH OIL TERMINAL	United Arab Emirates	AEFAT	Mid East
FAWLEY MARINE TERMINAL	United Kingdom	GBFAW	Europe
FECAMP	France	FRFEC	Europe
FELIXSTOWE	United Kingdom	GBFXT	Europe
FERROL	Spain	ESFRO	Europe
FIGUEIRA DA FOZ	Portugal	PTFDF	Europe
FIUMICINO	Italy	ITFCO	Mediterranean
FLORENCE	United States	USFCE	U.S. West Coast
FOLKESTONE HARBOUR	United Kingdom	GBFOL	Europe
FORT BRAGG	United States	USFBG	U.S. West Coast
FORT DE FRANCE	Martinique	MQFDF	Caribbean / Gulf
FORT WARD	United States	USYWD	U.S. West Coast

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name (Cont.)

Destination Name	Country	Port Code	Region Name
FOS	France	FRFZS	Mediterranean
FREDERICIA	Denmark	DKFRC	Europe
FREDERIKSHAVN	Denmark	DKFDH	Europe
FREEPORT	Bahamas, The	BSFPT	Caribbean / Gulf
FREMANTLE	Australia	AUFRE	Oceania
FUNABASHI	Japan	JPFNB	North Asia
GALVESTON	United States	USGLS	U.S. Gulf Coast
GAVIOTA	United States		U.S. West Coast
GAVRIO	Greece	GRGAV	Mediterranean
GDANSK	Poland	PLGDN	Europe
GDYNIA	Poland	PLGDY	Europe
GEELONG	Australia	AUGEX	Oceania
GELA	Italy	ITGEA	Mediterranean
GELIBOLU	Turkey	TRGEL	Mediterranean
GENOVA	Italy	ITGEN	Mediterranean
GHAZAOUET	Algeria	DZGHZ	Mediterranean
GIOIA TAURO	Italy	ITGIT	Mediterranean
GLEN COVE	United States	USGLN	U.S. West Coast
GLOUCESTER	United States	USG2C	U.S. East Coast
GRAVELINES	France	FRGRV	Europe
GRAVESEND	United Kingdom	GBGVS	Europe
GREENPORT	United States	USGP4	U.S. East Coast
GRENAA HAVN	Denmark	DKGRE	Europe
GRETNA	United States	USGTL	U.S. Gulf Coast
GUAIBA ISLAND TERMINAL	Brazil		East Coast South America
GULFPORT SI	United States	USGFP	U.S. East Coast
GWADAR	Pakistan	PKGWD	Mid East
HAIFA	Israel	ILHFA	Mediterranean
HALIFAX	Canada	CAHAL	Canada East Coast
HAMBURG	Germany	DEHAM	Europe
HAMINA	Finland	FIHMN	Europe
HANNAN KO	Japan	JPHAN	North Asia
HANSWEERT	Netherlands	NLHAN	Europe
HARWICH	United Kingdom	GBHRW	Europe
HAYDARPASA	Turkey	TRHAY	Black Sea
HOEK VAN HOLLAND	Netherlands	NLHVH	Europe
HONFLEUR	France	FRHON	Europe
HONG KONG	Hong Kong	HKHKG	South China
HONOKAA	United States		Pacific

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name (Cont.)

Destination Name	Country	Port Code	Region Name
HONOLULU	United States	USHNL	Pacific
HORNILLO	Spain		Mediterranean
HUANGPU	China	CNHUA	South China
HUANGPUXINGANG	China		South China
HULAYLAH OIL TERMINAL	United Arab Emirates	AEHTL	Mid East
HULUDAO GANG	China		North Asia
IBIZA	Spain	ESIBZ	Mediterranean
IJMUIDEN	Netherlands	NLIJM	Europe
ILLICHIVSK	Ukraine	UAILK	Black Sea
ILWACO	United States	USIQL	U.S. West Coast
IMPERIA	Italy	ITIMP	Mediterranean
INNOSHIMA	Japan	JPINS	North Asia
IQUIQUE	Chile	CLIQQ	West Coast South America
IRAKLION	Greece	GRNAI	Mediterranean
ISLE OF GRAIN	United Kingdom	GBIOG	Europe
ISTANBUL	Turkey	TRIST	Black Sea
ISTHMUS COVE	United States		U.S. West Coast
IZUHARA	Japan	JPIZH	North Asia
JACKSONVILLE	United States	USIJX	U.S. East Coast
JAKARTA	Indonesia	IDUTC	Southeast Asia
JASK	Iran		Mid East
JAWAHARLAL NEHRU PORT (NJAVA SHIVA)	India	INNSA	South Asia
JAZIREH-YE HORMOZ	Iran		Mid East
JAZIREH-YE LAVAN OIL TERMINAL	Iran		Mid East
JAZIREH-YE SIRRI	Iran		Mid East
JIANGYIN	China	CNJGY	North Asia
JIJEL	Algeria	DZGJL	Mediterranean
JINZHOU WAN	China		North Asia
JOHOR	Malaysia		Southeast Asia
JOSE IGNACIO	Uruguay	UYJIT	East Coast South America
JU AYMAH OIL TERMINAL	Saudi Arabia	SAJUT	Mid East
JURONG ISLAND	Singapore		Southeast Asia
KABA BURNU	Turkey		Black Sea
KALAMA	United States	USKAM	U.S. West Coast
KALAMATA	Greece	GRKLX	Mediterranean
KALUNDBORG	Denmark	DKKAL	Europe
KAO-HSIUNG	Taiwan	TWKHH	South China
KARABIGA	Turkey	TRKRB	Mediterranean
KARACHI	Pakistan	PKKHI	South Asia

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name (Cont.)

Destination Name	Country	Port Code	Region Name
KAWASAKI KO	Japan	JPKWS	North Asia
KEPPEL - (EAST SINGAPORE)	Singapore	SGKEP	Southeast Asia
KHAWR FAKKAN	United Arab Emirates	AEKLF	Mid East
KHAWR KHASAB	Oman		Mid East
KHIOS	Greece		Mediterranean
KHOMS	Libya		Mediterranean
KIJANG	Indonesia	IDKIJ	Southeast Asia
KIKUMA	Japan	JPKIK	North Asia
KINGSTON	Jamaica	JMKIN	Caribbean / Gulf
KISARAZU KO	Japan	JPKZU	North Asia
KLAIPEDA	Lithuania	LTKLJ	Europe
KO SI CHANG TERMINAL	Thailand		Southeast Asia
KOBE	Japan	JPUKB	North Asia
KOPER	Slovenia	SIKOP	Mediterranean
KRAGERO	Norway	NOKRA	Europe
KRONSHTADT	Russia	KDT	Russia
LA GUAIRA	Venezuela	VELAG	West Coast South America
LA PUSH	United States		U.S. West Coast
LA SPEZIA	Italy	ITSPE	Mediterranean
LAEM CHABANG	Thailand	THLCH	Southeast Asia
LAGOS	Nigeria	NGLOS	Africa
LAKE CHARLES	United States	USLCH	U.S. Gulf Coast
LARNACA	Cyprus	CYLCA	Mediterranean
LAS PALMAS	Spain		Africa
LAS PIEDRAS	Venezuela	VELSP	West Coast South America
LAVRIO	Greece	GRLAV	Mediterranean
LEER	Germany	DELEE	Europe
LEONARDO	United States	USJND	U.S. East Coast
LIANYUNGANG	China	CNLYG	North Asia
LICATA	Italy	ITLIC	Mediterranean
LIMASSOL	Cyprus	CYLMS	Mediterranean
LIMIN KOS	Greece		Mediterranean
LIPARI	Italy	ITLIP	Mediterranean
LISBOA	Portugal	PTLIS	Europe
LITTLEHAMPTON HARBOUR	United Kingdom	GBLIT	Europe
LIVERPOOL	United Kingdom	GBLIV	Europe
LIVERPOOL BAY TERMINAL	United Kingdom	GBLIB	Europe
LIVORNO	Italy	ITLIV	Mediterranean
LOCKEPORT	Canada	CALCP	Canada East Coast

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name (Cont.)

Destination Name	Country	Port Code	Region Name
LONG BEACH	United States	USLB3	U.S. West Coast
LOOP TERMINAL	United States		U.S. Gulf Coast
LOS ANGELES	United States	USLAX	U.S. West Coast
LOWESTOFT	United Kingdom	GBLOW	Europe
LUANDA	Angola	AOLAD	Africa
LUSHUN	China	CNLSH	North Asia
M BAO OIL TERMINAL	Senegal		Africa
MAASSLUIS	Netherlands	NLMSL	Europe
MACAU	Macau	MCU	South China
MAILIAO	Taiwan	TWMLI	South China
MAKUSHIN	United States		U.S. West Coast
MALAGA	Spain	ESAGP	Mediterranean
MAMONAL	Colombia	COMAM	West Coast South America
MANGALIA	Romania	ROMAG	Black Sea
MANILA	Philippines	PHMNL	Southeast Asia
MANZANILLO	Mexico	MXZLO	Mexico West Coast
MARBLEHEAD	United States	USMH2	U.S. East Coast
MARIN	Spain	ESMAR	Europe
MARINA DI CARRARA	Italy	ITMDC	Mediterranean
MARSAXLOKK	Malta	MTMAR	Mediterranean
MARSTAL	Denmark	DKMRS	Europe
MAYPORT	United States	USNRB	U.S. East Coast
MAZARA DEL VALLO	Italy	ITMAZ	Mediterranean
MEGARA OIL TERMINAL	Greece	GRMGR	Mediterranean
MELBOURNE	Australia	AUMEL	Oceania
MERSIN	Turkey	TRMER	Mediterranean
MIAMI	United States	USMIA	U.S. East Coast
MINA AL FAHL	Oman	OMMFH	Mid East
MINA ASH SHUAYBAH	Kuwait		Mid East
MINA JABAL ALI	United Arab Emirates		Mid East
MINA QABUS	Oman		Mid East
MINA SALMAN	Bahrain	BHMIN	Mid East
MINA SAQR	United Arab Emirates	AeMSA	Mid East
MINA TARABULUS (TRIPOLI)	Libya		Mediterranean
MISRATAH	Libya		Mediterranean
MOHAMMEDIA	Morocco	MAMOH	Africa
MOJI KO	Japan	JPMOG	North Asia
MOMBASA	Kenya	KEMBA	Africa
MONACO	Monaco	MCMON	Mediterranean

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name (Cont.)

Destination Name	Country	Port Code	Region Name
MONTAUK HARBOR	United States	USMTP	U.S. East Coast
MONTEREY	United States	USMY3	U.S. West Coast
MONTEVIDEO	Uruguay	UYMVD	East Coast South America
MORRO BAY	United States	USMJK	U.S. West Coast
MOSTAGANEM	Algeria	DZMOS	Mediterranean
MOTRIL	Spain	ESMOT	Mediterranean
MUGGIA	Italy	ITUGG	Mediterranean
MUHAMAMAD BIN QASIM	Pakistan	PKQCT	South Asia
MUMBAI (BOMBAY)	India		South Asia
MUNDRA	India	INMUN	South Asia
MUSQUODOBOIT HARBOUR	Canada		Canada East Coast
MUTUREZIMA KO	Japan		North Asia
MUUGA-PORT OF TALLIN	Estonia		Europe
NANTUCKET	United States	USACK	U.S. East Coast
NAPOLI	Italy	ITNAP	Mediterranean
NEW ORLEANS	United States	USMSY	U.S. Gulf Coast
NEW WESTMINSTER	Canada	CANWE	Canada West Coast
NEW YORK CITY	United States	USNYC	U.S. East Coast
NEWARK	United States	USEWR	U.S. East Coast
NEWCASTLE	Australia	AUNTL	Oceania
NEWHAVEN HARBOUR	United Kingdom	GBNHV	Europe
NEWLYN	United Kingdom	GBNYL	Europe
NEWPORT BEACH	United States	USJNP	U.S. West Coast
NEWPORT NEWS	United States	USNNS	U.S. East Coast
NIIHAMA	Japan	JPIHA	North Asia
NISOS NAXOS	Greece		Mediterranean
NITEROI	Brazil	BRNTR	East Coast South America
NORDENHAM	Germany	DENHA	Europe
NORFOLK	United States	USNFF	U.S. East Coast
NORTH AIN SUKHNA PORT	Egypt		Suez
NOUAKCHOTT	Mauritania	MRNKC	Africa
NOWY PORT	Poland		Europe
OAKLAND	United States	USKND	U.S. West Coast
OCEAN CITY	United States	USOCE	U.S. East Coast
ODESA	Ukraine	UAODS	Black Sea
ONNE	Nigeria	NGONN	Africa
ORANJESTAD	Netherlands Antilles		Caribbean / Gulf
OSAKA	Japan	JPOSA	North Asia
OUISTREHAM	France	FROUI	Europe

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name (Cont.)

Destination Name	Country	Port Code	Region Name
OWASE	Japan	JPOWA	North Asia
PAKHI OIL TERMINAL	Greece		Mediterranean
PALM BEACH	United States	USPAB	U.S. East Coast
PALMA DE MALLORCA	Spain	ESPMI	Mediterranean
PATCHOGUE	United States	USPCP	U.S. East Coast
PAULSBORO	United States	USPAU	U.S. East Coast
PERAMA	Greece	GRPER	Mediterranean
PHILLIPSBURG	Netherlands Antilles		Caribbean / Gulf
PICTON	New Zealand	NZPCN	Oceania
PINEY POINT	United States	USPYP	U.S. East Coast
PIPAVAV BANDAR	India		South Asia
PIRAIEVS	Greece		Mediterranean
PLYMOUTH	United Kingdom	GBPLY	Europe
POINT LISAS INDUSTRIAL PORT	Trinidad and Tobago	TTPTS	East Coast South America
POINT RICHMOND	United States	USR14	U.S. West Coast
POINTE NOIRE	Congo	CGPNR	Africa
POLENG OIL FIELD	Indonesia		Southeast Asia
PONTA DELGADA	Portugal	PTPDL	Europe
POOLE HARBOUR	United Kingdom	GBPOO	Europe
PORT ANGELES	United States	USCLM	U.S. West Coast
PORT ANTONIO	Jamaica	JMPOT	Caribbean / Gulf
PORT BOUET	Cote d'Ivoire	CIPBT	Africa
PORT DE LOME	Togo	TGLFW	Africa
PORT DU HAVRE-ANTIFER	France		Europe
PORT ELIZABETH	South Africa	ZAPLZ	Africa
PORT EVERGLADES	United States	USPEF	U.S. East Coast
PORT KELANG	Malaysia		Southeast Asia
PORT KEMBLA	Australia	AUPKL	Oceania
PORT LYTTELTON	New Zealand	NZLYT	Oceania
PORT OF LE HAVRE	France		Europe
PORT OF SOHAR	Oman	OMSOH	Mid East
PORT OF SPAIN	Trinidad and Tobago	TTCHF	East Coast South America
PORT POLNOCHNY	Poland		Europe
PORT RICHMOND SI	United States		U.S. East Coast
PORT SAINT LOUIS DU RHONE	France	FRPSL	Mediterranean
PORT SAN LUIS	United States	USPSL	U.S. West Coast
PORT SULPHUR	United States	USSUL	U.S. Gulf Coast
PORT-DE-BOUC	France	FRPDB	Mediterranean
PORTLAND HARBOUR	United Kingdom	GBPRH	Europe

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name (Cont.)

Destination Name	Country	Port Code	Region Name
PORTO DI CORSINI	Italy		Mediterranean
PORTO DI PALERMO	Italy		Mediterranean
PORTO EMPEDOCLE	Italy	ITPEM	Mediterranean
PORTSMOUTH HARBOUR	United Kingdom		Europe
PORVOO	Finland	FIPRV	Europe
POZZALLO	Italy	ITPZL	Mediterranean
POZZUOLI	Italy	ITPOZ	Mediterranean
PRINCETOWN	United States	USBLF	U.S. West Coast
PROGRESO	Mexico	MXPGO	Mexico East Coast
PROVINCETOWN	United States	USPVC	U.S. East Coast
PTO MARITIMO DE QUAYAQUIL	Ecuador		West Coast South America
PUERTO BOLIVAR	Colombia	COPBO	West Coast South America
PUERTO BORBURATA	Venezuela		West Coast South America
PUERTO CABELLO	Venezuela	VEPBL	West Coast South America
PUERTO COLON	Panama		Panama Canal
PUERTO CRISTOBAL	Panama	PACTB	Panama Canal
PUERTO DE BILBAO	Spain		Europe
PUERTO DE CARBONERAS	Spain		Mediterranean
PUERTO DE GANDIA	Spain	ESGND	Mediterranean
PUERTO IBICUY	Argentina	ARIBY	East Coast South America
PUERTO ILO	Peru		West Coast South America
PUERTO LIMON	Costa Rica	CRLIO	Mexico East Coast
PUERTO MOIN	Costa Rica	CRPMN	Mexico East Coast
PUERTO QUETZAL	Guatemala	GTPRQ	Mexico West Coast
PUERTO SAN BARTOLOME	Mexico		Mexico West Coast
PULAU BUKOM	Singapore	SGPUB	Southeast Asia
PULAU SAMBU	Indonesia	IDPSS	Southeast Asia
PULAU SEBAROK	Singapore	SGSEB	Southeast Asia
PUNTA VACA MONTE	Panama		Panama Canal
PUSAN	Korea, South		North Asia
QALHAT LNG TERMINAL	Oman		Mid East
QINGDAO GANG	China	CNQDP	North Asia
QINHUANGDAO	China	CNSHP	North Asia
QUANZHOU	China	CNQZJ	South China
RADA DE ARICA	Chile		West Coast South America
RADA DI VADO	Italy		Mediterranean
RADE DE BREST	France		Europe
RAMSGATE	United Kingdom	GBRMG	Europe
RAS SUDR	Egypt	EGRSU	Suez

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name (Cont.)

Destination Name	Country	Port Code	Region Name
RATNAGIRI	India	INRTC	South Asia
REGGIO DI CALABRIA	Italy		Mediterranean
RICHARDS BAY	South Africa	ZARCB	Africa
RIGA	Latvia	LVRIX	Europe
RIJEKA LUKA	Croatia		Mediterranean
RIO DE JANEIRO	Brazil	BRRIO	East Coast South America
RIO GRANDE	Brazil	BRRIG	East Coast South America
RISOR	Norway	NORIS	Europe
RIZHAO	China	CNRZH	North Asia
ROSARIO	Argentina	ARROS	East Coast South America
ROSARITO	Mexico	MXZRO	Mexico West Coast
ROSAS	Spain	ESROS	Mediterranean
ROTA	Spain	ESROT	Mediterranean
ROTTERDAM	Netherlands	NLRTM	Europe
RUFISQUE	Senegal		Africa
RYE HARBOUR	United Kingdom	GBRYE	Europe
SAGUNTO	Spain	ESSAG	Mediterranean
SAKAI-SENBUOKU	Japan	JPSAK	North Asia
SALDANHA BAY	South Africa	ZASDB	Africa
SALEM NJ	United States		U.S. East Coast
SALERNO	Italy	ITSAL	Mediterranean
SALINA	Netherlands Antilles		West Coast South America
SAMBRO	Canada		Canada East Coast
SAN FELIU DE GUIXOLS	Spain	ESSFU	Mediterranean
SAN FRANCISCO	United States	USSFO	U.S. West Coast
SAN JUAN	Puerto Rico	PRSJU	Caribbean / Gulf
SAN PEDRO	Cote d'Ivoire		Africa
SAN REMO	Italy	ITSRE	Mediterranean
SANKT-PETERBURG	Russia		Russia
SANTA CRUZ DE TENERIFE	Spain	ESSCT	Africa
SANTA MARTA	Colombia	COSMR	West Coast South America
SANTOS	Brazil	BRSSZ	East Coast South America
SARROCH OIL TERMINAL	Italy		Mediterranean
SASSNITZ	Germany	DESAS	Europe
SAUSALITO	United States	USJMC	U.S. West Coast
SAVANNAH	United States	USSA8	U.S. East Coast
SAVONA	Italy	ITSVN	Mediterranean
SCHEVENINGEN	Netherlands	NLSCE	Europe
SCHIEDAM	Netherlands	NLSCI	Europe

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name (Cont.)

Destination Name	Country	Port Code	Region Name
SEATTLE	United States	USSEA	U.S. West Coast
SEKUPANG	Indonesia	IDSKP	Southeast Asia
SERANGOON HARBOR	Singapore		Southeast Asia
SETUBAL	Portugal	PTSET	Europe
SHAN T OU	China	CNSTP	South China
SHANGHAI	China	CNSHA	North Asia
SHARJAH OFFSHORE TERMINAL	United Arab Emirates	AESHJ	Mid East
SHEERNESS	United Kingdom	GBSHS	Europe
SHEKOU	China	CNSHK	South China
SHIMOTSU	Japan	JPSMT	North Asia
SHINGU	Japan	JPSHN	North Asia
SINES	Portugal	PTSIE	Europe
SIRACUSA	Italy	ITSIR	Mediterranean
SITRAH	Bahrain	BHSIT	Mid East
SKAGEN HAVN	Denmark		Europe
SOKHNA PORT GAS TANKER TERMINAL	Egypt	EGSOK	Suez
SOLOMONS ISLAND	United States	USOMU	U.S. East Coast
SOREL	Canada	CASOR	Great Lakes
SOUTH RIDING POINT	Bahamas, The	BSSRP	Caribbean / Gulf
SOUTHAMPTON	United Kingdom	GBSOU	Europe
SOUTHPORT	United States	USSP4	U.S. East Coast
SPETSES	Greece	GRSPE	Mediterranean
ST AUGUSTINE	United States	USUST	U.S. East Coast
ST HELENS	United States	USSTH	U.S. West Coast
ST NAZaire	France		Europe
ST PETERSBURG	United States	USPIE	U.S. Gulf Coast
ST. MARY'S (SCILLY ISL.)	United Kingdom		Europe
STAPLETON SI	United States	USTAE	U.S. East Coast
STRALSUND	Germany	DESTL	Europe
SWINOUJSCIE	Poland	PLSWI	Europe
TACHIBANA	Japan	JPTBN	North Asia
TACOMA	United States	USTIW	U.S. West Coast
TAESAN-HANG	Korea, South		North Asia
TAKORADI	Ghana	GHTKD	Africa
TAMPA	United States	USTPA	U.S. Gulf Coast
TANGIER-MEDITERRANEAN	Morocco		Mediterranean
TANGSHAN	China	CNTAS	North Asia
TANJUNG BALAI KARIMUN	Indonesia	IDTBU	Southeast Asia
TANJUNG PELEPAS	Malaysia	MYTPP	Southeast Asia

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name (Cont.)

Destination Name	Country	Port Code	Region Name
TANJUNGPINANG	Indonesia		Southeast Asia
TANJUNGUBAN	Indonesia	IDTAN	Southeast Asia
TARANTO	Italy	ITTAR	Mediterranean
TATEYAMA KO	Japan	JPTTY	North Asia
TAZERKA OIL TERMINAL	Tunisia	TNTAT	Mediterranean
TELUK ANSON	Malaysia		Southeast Asia
TEMA	Ghana	GHTEM	Africa
TENES	Algeria	DZTEN	Mediterranean
TERMINI IMERESE	Italy	ITTRI	Mediterranean
TERNEUZEN	Netherlands	NLTNZ	Europe
THAMESPORT	United Kingdom	GBTHP	Europe
THESSALONIKI	Greece	GRSKG	Mediterranean
THURSDAY ISLAND	Australia	AUTIS	Oceania
TIANJIN XIN GANG	China	CNTJP	North Asia
TILBURY	United Kingdom	GBTIL	Europe
TIN CAN ISLAND	Nigeria	NGTIN	Africa
TOBATA	Japan	JPTBT	North Asia
TOKYO KO	Japan		North Asia
TOMPKINSVILLE SI	United States	USTPM	U.S. East Coast
TONGUE POINT	United States		U.S. West Coast
TORRE DEL GRECO	Italy	ITTDG	Mediterranean
TORREVIEJA	Spain	ESTOR	Mediterranean
TRAPANI	Italy	ITTPS	Mediterranean
TRIESTE	Italy	ITTRS	Mediterranean
TROIS RIVIERES	Canada		Great Lakes
TUTICORIN	India	INTUT	South Asia
UCLUELET	Canada		Canada West Coast
UKPOKITI MARINE TERMINAL	Nigeria		Africa
ULSAN	Korea, South	KRONS	North Asia
UMAG	Croatia	HRUMG	Mediterranean
UMM AL QAYWAYN	United Arab Emirates		Mid East
UNALASKA	United States	USUAA	U.S. West Coast
URAGA KO	Japan	JPURG	North Asia
VALENCIA	Spain	ESVLC	Mediterranean
VALLETTA HARBORS	Malta		Mediterranean
VAN PHONG BAN	Vietnam	VNVPH	Africa
VANCOUVER	Canada	CAVAN	Canada West Coast
VARNA	Bulgaria	BGVAR	Black Sea
VENTERMINALS	Venezuela		West Coast South America

Table A-2: Port Code and Region Look-ups, Sorted by Destination Name (Cont.)

Destination Name	Country	Port Code	Region Name
VERACRUZ	Mexico	MXVER	Mexico East Coast
VIANA DO CASTELO	Portugal	PTVDC	Europe
VIBO VALENTIA MARINA	Italy	ITVVA	Mediterranean
VIGO	Spain	ESVGO	Europe
VILA DO PORTO	Portugal	PTVDP	Europe
VILANOVA Y GELTRU	Spain		Mediterranean
VISHAKHAPATNAM	India		South Asia
VLAARDINGEN	Netherlands	NLVLA	Europe
VLISSINGEN	Netherlands	NLVLI	Europe
WATCHET HARBOR	United Kingdom	GBWAT	Europe
WEIHAI	China	CNWEI	North Asia
WELLINGTON	New Zealand	NZWLG	Oceania
WHITSTABLE	United Kingdom	GBWTS	Europe
WILHELMSHAVEN	Germany	DEWVN	Europe
WILLEMSTAD	Netherlands Antilles	ANWIL	West Coast South America
WILMINGTON	United States	USILG	U.S. East Coast
WILSON COVE	United States		U.S. West Coast
WOLGAST	Germany	DEWOL	Europe
XIAMEN	China	CNXMN	South China
XIUYU	China	CNXIU	South China
YANTIAN	China	CNYTN	South China
YARMOUTH HARBOUR	United Kingdom	GBYMO	Europe
YERBABUENA ISLAND	United States		U.S. West Coast
YITHION	Greece		Mediterranean
YOKOHAMA KO	Japan		North Asia
YOKOSUKA KO	Japan		North Asia
YOSU	Korea, South		North Asia
YUZHNY	Ukraine	UAYUZ	Black Sea
ZAFARANA TERMINAL	Egypt		Suez
ZEEBRUGGE	Belgium	BEZEE	Europe
ZHANGJIANGANG	China	CNZJG	North Asia
ZHANGZHOU	China	CNZZU	South China
ZHEN HAI	China		North Asia
ZHOUSHAN	China	CNZOS	North Asia

Table A-3: Port Codes and Region Look-ups, Sorted by Country

Destination Name	Country	Port Code	Region Name
ALGER	Algeria	DZALG	Mediterranean
ANNABA	Algeria	DZAAE	Mediterranean
ARZEW	Algeria	DZAZW	Mediterranean
BEJAIA	Algeria	DZBJA	Mediterranean
COLLO	Algeria	DZCOL	Mediterranean
DELLYS	Algeria	DZDEL	Mediterranean
DJEN-DJEN	Algeria	DZDJE	Mediterranean
GHAZAOUET	Algeria	DZGHZ	Mediterranean
JIJEL	Algeria	DZGJL	Mediterranean
MOSTAGANEM	Algeria	DZMOS	Mediterranean
TENES	Algeria	DZTEN	Mediterranean
LUANDA	Angola	AOLAD	Africa
BUENOS AIRES	Argentina	ARBUE	East Coast South America
CAMPANA	Argentina	ARCMP	East Coast South America
PUERTO IBICUY	Argentina	ARIBY	East Coast South America
ROSARIO	Argentina	ARROS	East Coast South America
BOTANY BAY	Australia	AUBTB	Oceania
FREMANTLE	Australia	AUFRE	Oceania
GEELONG	Australia	AUGEX	Oceania
MELBOURNE	Australia	AUMEL	Oceania
NEWCASTLE	Australia	AUNTL	Oceania
PORT KEMBLA	Australia	AUPKL	Oceania
THURSDAY ISLAND	Australia	AUTIS	Oceania
FREEPORT	Bahamas, The	BSFPT	Caribbean / Gulf
SOUTH RIDING POINT	Bahamas, The	BSSRP	Caribbean / Gulf
MINA SALMAN	Bahrain	BHMIN	Mid East
SITRAH	Bahrain	BHSIT	Mid East
ANTWERPEN	Belgium	BEANR	Europe
ZEEBRUGGE	Belgium	BEZEE	Europe
COTONOU	Benin	BJCOO	Africa
DTSE / GEGUA OIL TERMINAL	Brazil		East Coast South America
GUAIBA ISLAND TERMINAL	Brazil		East Coast South America
NITEROI	Brazil	BRNTR	East Coast South America
RIO DE JANEIRO	Brazil	BRRIO	East Coast South America
RIO GRANDE	Brazil	BRRIG	East Coast South America
SANTOS	Brazil	BRSSZ	East Coast South America
BURGAS	Bulgaria	BGBOJ	Black Sea
VARNA	Bulgaria	BGVAR	Black Sea
CLAYOQUOT	Canada		Canada West Coast
HALIFAX	Canada	CAHAL	Canada East Coast
LOCKEPORT	Canada	CALCP	Canada East Coast
MUSQUODOBOIT HARBOUR	Canada		Canada East Coast
NEW WESTMINSTER	Canada	CANWE	Canada West Coast
SAMBRO	Canada		Canada East Coast
SOREL	Canada	CASOR	Great Lakes

Table A-3: Port Codes and Region Look-ups, Sorted by Country (Cont.)

Destination Name	Country	Port Code	Region Name
TROIS RIVIERES	Canada		GreatLakes
UCLUELET	Canada		Canada West Coast
VANCOUVER	Canada	CAVAN	Canada West Coast
CAYMAN BRAC	Cayman Islands	KYCYB	Caribbean / Gulf
BAHIA DE VALPARAISO	Chile		West Coast South America
IQUIQUE	Chile	CLIQQ	West Coast South America
RADA DE ARICA	Chile		West Coast South America
BAYUQUAN	China	CNBAY	North Asia
CHANGSHU	China	CNGGU	North Asia
CHAOZHOU	China	CNCOZ	South China
DALIAN	China	CNDLC	North Asia
FANG-CHENG	China	CNFAN	South China
HUANGPU	China	CNHUA	South China
HUANGPUXINGANG	China		South China
HULUDAO GANG	China		North Asia
JIANGYIN	China	CNJGY	North Asia
JINZHOU WAN	China		North Asia
LIANYUNGANG	China	CNLYG	North Asia
LUSHUN	China	CNLSH	North Asia
QINGDAO GANG	China	CNQDP	North Asia
QINHUANGDAO	China	CNSHP	North Asia
QUANZHOU	China	CNQZJ	South China
RIZHAO	China	CNRZH	North Asia
SHAN T OU	China	CNSTP	South China
SHANGHAI	China	CNSHA	North Asia
SHEKOU	China	CNSHK	South China
TANGSHAN	China	CNTAS	North Asia
TIANJIN XIN GANG	China	CNTJP	North Asia
WEIHAI	China	CNWEI	North Asia
XIAMEN	China	CNXMN	South China
XIUYU	China	CNXIU	South China
YANTIAN	China	CNYTN	South China
ZHANGJIANGANG	China	CNZJG	North Asia
ZHANGZHOU	China	CNZZU	South China
ZHEN HAI	China		North Asia
ZHOUSHAN	China	CNZOS	North Asia
CARTAGENA (Columbia)	Colombia	COCTG	West Coast South America
EL BOSQUE	Colombia	CoeBQ	West Coast South America
MAMONAL	Colombia	COMAM	West Coast South America
PUERTO BOLIVAR	Colombia	COPBO	West Coast South America
SANTA MARTA	Colombia	COSMR	West Coast South America
POINTE NOIRE	Congo	CGPNR	Africa
PUERTO LIMON	Costa Rica	CRLIO	Mexico East Coast
PUERTO MOIN	Costa Rica	CRPMN	Mexico East Coast

Table A-3: Port Codes and Region Look-ups, Sorted by Country (Cont.)

Destination Name	Country	Port Code	Region Name
PORTE BOUET	Cote d'Ivoire	CIPBT	Africa
SAN PEDRO	Cote d'Ivoire		Africa
DUBROVNIK	Croatia	HRDBV	Mediterranean
RIJEKA LUKA	Croatia		Mediterranean
UMAG	Croatia	HRUMG	Mediterranean
LARNACA	Cyprus	CYLCA	Mediterranean
LIMASSOL	Cyprus	CYLMIS	Mediterranean
ARHUS	Denmark	DKAAR	Europe
FREDERICIA	Denmark	DKFRC	Europe
FREDERIKSHAVN	Denmark	DKFDH	Europe
GRENAA HAVN	Denmark	DKGRE	Europe
KALUNDBORG	Denmark	DKKAL	Europe
MARSTAL	Denmark	DKMRS	Europe
SKAGEN HAVN	Denmark		Europe
PTO MARITIMO DE QUAYAQUIL	Ecuador		West Coast South America
AIN SUKHNA TERMINAL	Egypt	EGAIS	Suez
AL ISKANDARIYH (ALEXANDRIA)	Egypt		Mediterranean
AS SUWAYS	Egypt		Suez
BUR SAID (PORT SAID)	Egypt	EGPSD	Suez
DAMIETTA	Egypt	EGDMT	Suez
EL ISMAILIYA	Egypt		Suez
EL MAADIYA	Egypt		Mediterranean
EL-ADABIYA	Egypt		Suez
NORTH AIN SUKHNA PORT	Egypt		Suez
RAS SUDR	Egypt	EGRSU	Suez
SOKHNA PORT GAS TANKER TERMINAL	Egypt	EGSOK	Suez
ZAFARANA TERMINAL	Egypt		Suez
ACAJUTLA	El Salvador	SVAQJ	Mexico West Coast
ACAJUTLA OFFSHORE TERMINAL	El Salvador	SVAQJ	Mexico West Coast
MUUGA-PORT OF TALLIN	Estonia		Europe
HAMINA	Finland	FIHMN	Europe
PORVOO	Finland	FIPRV	Europe
BASTIA	France	FRBIA	Mediterranean
CALAIS	France	FRCQF	Europe
CALVI	France	FRCLY	Mediterranean
DUNKERQUE PORT OUEST	France	FRDKK	Europe
FECAMP	France	FRFEC	Europe
FOS	France	FRFZS	Mediterranean
GRAVELINES	France	FRGRV	Europe
HONFLEUR	France	FRHON	Europe
OUISTREHAM	France	FROUI	Europe
PORT DU HAVRE-ANTIFER	France		Europe
PORT OF LE HAVRE	France		Europe
PORT SAINT LOUIS DU RHONE	France	FRPSL	Mediterranean
PORT-DE-BOUC	France	FRPDB	Mediterranean
RADE DE BREST	France		Europe

Table A-3: Port Codes and Region Look-ups, Sorted by Country (Cont.)

Destination Name	Country	Port Code	Region Name
ST NAZARE	France		Europe
BREMERHAVEN	Germany	DEBRV	Europe
BRUNSBUETEL ELBAHAFEN	Germany	DEBRB	Europe
BUTZFLETH	Germany	DEBUZ	Europe
CUXHAVEN	Germany	DECUX	Europe
EMDEN	Germany	DEEME	Europe
HAMBURG	Germany	DEHAM	Europe
LEER	Germany	DELEE	Europe
NORDENHAM	Germany	DENHA	Europe
SASSNITZ	Germany	DESAS	Europe
STRALSUND	Germany	DESTL	Europe
WILHELMSHAVEN	Germany	DEWVN	Europe
WOLGAST	Germany	DEWOL	Europe
TAKORADI	Ghana	GHTKD	Africa
TEMA	Ghana	GHTEM	Africa
EUROPA POINT	Gibraltar		Mediterranean
ASPROPIRGOS	Greece	GRASS	Mediterranean
AYIOS NIKOLAOS	Greece	GRAGF	Mediterranean
ELEVSIS	Greece	GRELE	Mediterranean
GAVRIO	Greece	GRGAV	Mediterranean
IRAKLION	Greece	GRNAI	Mediterranean
KALAMATA	Greece	GRKLX	Mediterranean
KHIOS	Greece		Mediterranean
LAVRIO	Greece	GRLAV	Mediterranean
LIMIN KOS	Greece		Mediterranean
MEGARA OIL TERMINAL	Greece	GRMGR	Mediterranean
NISOS NAXOS	Greece		Mediterranean
PAKHI OIL TERMINAL	Greece		Mediterranean
PERAMA	Greece	GRPER	Mediterranean
PIRAIEVS	Greece		Mediterranean
SPETSES	Greece	GRSPE	Mediterranean
THESSALONIKI	Greece	GRSKG	Mediterranean
YITHION	Greece		Mediterranean
PUERTO QUETZAL	Guatemala	GTPRQ	Mexico West Coast
CONAKRY	Guinea	GNCKY	Africa
HONG KONG	Hong Kong	HKHKG	South China
CHENNAI (MADRAS)	India		South Asia
JAWAHARLAL NEHRU PORT (NHAVA SHIVA)	India	INNSA	South Asia
MUMBAI (BOMBAY)	India		South Asia
MUNDRA	India	INMUN	South Asia
PIPAVAV BANDAR	India		South Asia
RATNAGIRI	India	INRTC	South Asia
TUTICORIN	India	INTUT	South Asia
VISHAKHAPATNAM	India		South Asia
BELANAK FIELD TERMINAL	Indonesia	IDBNT	Southeast Asia
JAKARTA	Indonesia	IDUTC	Southeast Asia

Table A-3: Port Codes and Region Look-ups, Sorted by Country (Cont.)

Destination Name	Country	Port Code	Region Name
KIJANG	Indonesia	IDKIJ	Southeast Asia
POLENG OIL FIELD	Indonesia		Southeast Asia
PULAU SAMBU	Indonesia	IDPSS	Southeast Asia
SEKUPANG	Indonesia	IDSKP	Southeast Asia
TANJUNG BALAI KARIMUN	Indonesia	IDTBU	Southeast Asia
TANJUNGPINANG	Indonesia		Southeast Asia
TANJUNGUBAN	Indonesia	IDTAN	Southeast Asia
BANDAR ABBAS	Iran	IRBND	Mid East
BANDAR-E SHAHID REAJIE	Iran	IRBSR	Mid East
BUSHEHR	Iran	IRBUZ	Mid East
JASK	Iran		Mid East
JAZIREH-YE HORMOZ	Iran		Mid East
JAZIREH-YE LAVAN OIL TERMINAL	Iran		Mid East
JAZIREH-YE SIRRI	Iran		Mid East
ASHDOD	Israel	ASH	Mediterranean
HAIFA	Israel	ILHFA	Mediterranean
ANCONA	Italy	ITAOI	Mediterranean
BAGNOLI	Italy	ITBLN	Mediterranean
CAGLIARI	Italy	ITCAG	Mediterranean
CROTONE	Italy	ITCRV	Mediterranean
FIUMICINO	Italy	ITFCO	Mediterranean
GELA	Italy	ITGEA	Mediterranean
GENOVA	Italy	ITGEN	Mediterranean
GIOIA TAURO	Italy	ITGIT	Mediterranean
IMPERIA	Italy	ITIMP	Mediterranean
LA SPEZIA	Italy	ITSPE	Mediterranean
LICATA	Italy	ITLIC	Mediterranean
LIPARI	Italy	ITLIP	Mediterranean
LIVORNO	Italy	ITLIV	Mediterranean
MARINA DI CARRARA	Italy	ITMDC	Mediterranean
MAZARA DEL VALLO	Italy	ITMAZ	Mediterranean
MUGGIA	Italy	ITUGG	Mediterranean
NAPOLI	Italy	ITNAP	Mediterranean
PORTO DI CORSINI	Italy		Mediterranean
PORTO DI PALERMO	Italy		Mediterranean
PORTO EMPEDOCLE	Italy	ITPEM	Mediterranean
POZZALLO	Italy	ITPZL	Mediterranean
POZZUOLI	Italy	ITPOZ	Mediterranean
RADA DI VADO	Italy		Mediterranean
REGGIO DI CALABRIA	Italy		Mediterranean
SALERNO	Italy	ITSAL	Mediterranean
SAN REMO	Italy	ITSRE	Mediterranean
SARROCH OIL TERMINAL	Italy		Mediterranean
SAVONA	Italy	ITSVN	Mediterranean
SIRACUSA	Italy	ITSIR	Mediterranean
TARANTO	Italy	ITTAR	Mediterranean

Table A-3: Port Codes and Region Look-ups, Sorted by Country (Cont.)

Destination Name	Country	Port Code	Region Name
TERMINI IMERESE	Italy	ITTRI	Mediterranean
TORRE DEL GRECO	Italy	ITTDG	Mediterranean
TRAPANI	Italy	ITTPS	Mediterranean
TRIESTE	Italy	ITTRS	Mediterranean
VIBO VALENTIA MARINA	Italy	ITVVA	Mediterranean
KINGSTON	Jamaica	JMKIN	Caribbean / Gulf
PORT ANTONIO	Jamaica	JMPOT	Caribbean / Gulf
FUNABASHI	Japan	JPFNB	North Asia
HANNAN KO	Japan	JPHAN	North Asia
INNOSHIMA	Japan	JPINS	North Asia
IZUHARA	Japan	JPIZH	North Asia
KAWASAKI KO	Japan	JPKWS	North Asia
KIKUMA	Japan	JPKIK	North Asia
KISARAZU KO	Japan	JPKZU	North Asia
KOBE	Japan	JPUKB	North Asia
MOJI KO	Japan	JPMOG	North Asia
MUTUREZIMA KO	Japan		North Asia
NIIHAMANA	Japan	JPIHA	North Asia
OSAKA	Japan	JPOSA	North Asia
OWASE	Japan	JPOWA	North Asia
SAKAI-SENBOKU	Japan	JPSAK	North Asia
SHIMOTSU	Japan	JPSMT	North Asia
SHINGU	Japan	JPSHN	North Asia
TACHIBANA	Japan	JPTBN	North Asia
TATEYAMA KO	Japan	JPTTY	North Asia
TOBATA	Japan	JPTBT	North Asia
TOKYO KO	Japan		North Asia
URAGA KO	Japan	JPURG	North Asia
YOKOHAMA KO	Japan		North Asia
YOKOSUKA KO	Japan		North Asia
MOMBASA	Kenya	KEMBA	Africa
CHINAE	Korea, South		North Asia
PUSAN	Korea, South		North Asia
TAESAN-HANG	Korea, South		North Asia
ULSAN	Korea, South	KRONS	North Asia
YOSU	Korea, South		North Asia
AL KUWAYT	Kuwait		Mid East
MINA ASH SHUAYBAH	Kuwait		Mid East
RIGA	Latvia	LVRIX	Europe
BAYRUT	Lebanon		Mediterranean
BANGHAZI	Libya	SYBEN	Mediterranean
KHOMS	Libya		Mediterranean
MINA TARABULUS (TRIPOLI)	Libya		Mediterranean
MISRATAH	Libya		Mediterranean
KLAIPEDA	Lithuania	LTKLJ	Europe
MACAU	Macau	MCU	South China

Table A-3: Port Codes and Region Look-ups, Sorted by Country (Cont.)

Destination Name	Country	Port Code	Region Name
JOHOR	Malaysia		Southeast Asia
PORT KELANG	Malaysia		Southeast Asia
TANJUNG PELEPAS	Malaysia	MYTPP	Southeast Asia
TELUK ANSON	Malaysia		Southeast Asia
MARSAXLOKK	Malta	MTMAR	Mediterranean
VALLETTA HARBORS	Malta		Mediterranean
FORT DE FRANCE	Martinique	MQFDF	Caribbean / Gulf
NOUAKCHOTT	Mauritania	MRNKC	Africa
ALTAMIRA	Mexico	MXATM	Mexico East Coast
MANZANILLO	Mexico	MXZLO	Mexico West Coast
PROGRESO	Mexico	MXPGO	Mexico East Coast
PUERTO SAN BARTOLOME	Mexico		Mexico West Coast
ROSARITO	Mexico	MXZRO	Mexico West Coast
VERACRUZ	Mexico	MXVER	Mexico East Coast
MONACO	Monaco	MCMON	Mediterranean
AGADIR	Morocco	MAAGA	Africa
CASABLANCA	Morocco	MACAS	Africa
MOHAMMEDIA	Morocco	MAMOH	Africa
TANGIER-MEDITERRANEAN	Morocco		Mediterranean
DEN HELDER	Netherlands	NLDHR	Europe
EEMSHAVEN	Netherlands	NLEEM	Europe
EUROPOORT	Netherlands	NLEUR	Europe
HANSWEERT	Netherlands	NLHAN	Europe
HOEK VAN HOLLAND	Netherlands	NLVH	Europe
IJMUIDEN	Netherlands	NLIJM	Europe
MAASSLUIS	Netherlands	NLMSL	Europe
ROTTERDAM	Netherlands	NLRTM	Europe
SCHEVENINGEN	Netherlands	NLSCE	Europe
SCHIEDAM	Netherlands	NLSCI	Europe
TERNEUZEN	Netherlands	NLTNZ	Europe
VLAARDINGEN	Netherlands	NLVLA	Europe
VLISSINGEN	Netherlands	NLVLI	Europe
CARACASBAAI	Netherlands Antilles	ANCRB	West Coast South America
COLES BAY OIL TERMINAL	Netherlands Antilles		Caribbean / Gulf
ORANJESTAD	Netherlands Antilles		Caribbean / Gulf
PHILLIPSBURG	Netherlands Antilles		Caribbean / Gulf
SALINA	Netherlands Antilles		West Coast South America
WILLEMSTAD	Netherlands Antilles	ANWIL	West Coast South America
PICTON	New Zealand	NZPCN	Oceania
PORT LYTTELTON	New Zealand	NZLYT	Oceania
WELLINGTON	New Zealand	NZWLG	Oceania
BONNY	Nigeria	NGBON	Africa
LAGOS	Nigeria	NGLOS	Africa
ONNE	Nigeria	NGONN	Africa
TIN CAN ISLAND	Nigeria	NGTIN	Africa
UKPOKITI MARINE TERMINAL	Nigeria		Africa

Table A-3: Port Codes and Region Look-ups, Sorted by Country (Cont.)

Destination Name	Country	Port Code	Region Name
ALESUND	Norway	NOAeS	Europe
ARENDAL	Norway	NOARE	Europe
KRAGERO	Norway	NOKRA	Europe
RISOR	Norway	NORIS	Europe
KHAWR KHASAB	Oman		Mid East
MINA AL FAHL	Oman	OMMFH	Mid East
MINA QABUS	Oman		Mid East
PORT OF SOHAR	Oman	OMSOH	Mid East
QALHAT LNG TERMINAL	Oman		Mid East
GWADAR	Pakistan	PKGWD	Mid East
KARACHI	Pakistan	PKKHI	South Asia
MUHAMAMAD BIN QASIM	Pakistan	PKQCT	South Asia
BAHIA DE LAS MINAS	Panama	PAPBM	Panama Canal
BALBOA	Panama	PABLW	Panama Canal
PUERTO COLON	Panama		Panama Canal
PUERTO CRISTOBAL	Panama	PACTB	Panama Canal
PUNTA VACA MONTE	Panama		Panama Canal
PUERTO ILO	Peru		West Coast South America
BATANGAS CITY	Philippines	PHBTG	Southeast Asia
MANILA	Philippines	PHMNL	Southeast Asia
GDANSK	Poland	PLGDN	Europe
GDYNIA	Poland	PLGDY	Europe
NOWY PORT	Poland		Europe
PORT POLNOCHNY	Poland		Europe
SWINOUJSCIE	Poland	PLSWI	Europe
FARO	Portugal	PTFAO	Mediterranean
FIGUEIRA DA FOZ	Portugal	PTFDF	Europe
LISBOA	Portugal	PTLIS	Europe
PONTA DELGADA	Portugal	PTPDL	Europe
SETUBAL	Portugal	PTSET	Europe
SINES	Portugal	PTSIE	Europe
VIANA DO CASTELO	Portugal	PTVDC	Europe
VILA DO PORTO	Portugal	PTVDP	Europe
AGUADILLA	Puerto Rico	PRBQN	Caribbean / Gulf
SAN JUAN	Puerto Rico	PRSJU	Caribbean / Gulf
AL RAYYAN TERMINAL	Qatar		Mid East
AL SHAHEEN TERMINAL	Qatar	XZSHA	Mid East
DOHA	Qatar	QADOH	Mid East
CONSTANTA	Romania	ROCND	Black Sea
MANGALIA	Romania	ROMAG	Black Sea
KRONSHTADT	Russia	KDT	Russia
SANKT-PETERBURG	Russia		Russia
AL JUBAYL	Saudi Arabia	SAJBI	Mid East
DAMMAM	Saudi Arabia		Mid East
JU AYMAH OIL TERMINAL	Saudi Arabia	SAJUT	Mid East
DAKAR	Senegal	SNDKR	Africa

Table A-3: Port Codes and Region Look-ups, Sorted by Country (Cont.)

Destination Name	Country	Port Code	Region Name
M BAO OIL TERMINAL	Senegal		Africa
RUFISQUE	Senegal		Africa
JURONG ISLAND	Singapore		Southeast Asia
KEPPEL - (EAST SINGAPORE)	Singapore	SGKEP	Southeast Asia
PULAU BUKOM	Singapore	SGPUB	Southeast Asia
PULAU SEBAROK	Singapore	SGSEB	Southeast Asia
SERANGOON HARBOR	Singapore		Southeast Asia
KOPER	Slovenia	SIKOP	Mediterranean
CAPE TOWN	South Africa	ZACPT	Africa
DURBAN	South Africa	ZADUR	Africa
PORT ELIZABETH	South Africa	ZAPLZ	Africa
RICHARDS BAY	South Africa	ZARCB	Africa
SALDANHA BAY	South Africa	ZASDB	Africa
ADRA	Spain	ESADR	Mediterranean
ALGECIRAS	Spain	ESALG	Mediterranean
ALICANTE	Spain	ESALC	Mediterranean
ALMERIA	Spain	ESLEI	Mediterranean
ARRECIFE	Spain		Africa
BARCELONA	Spain	ESBCN	Mediterranean
CADIZ	Spain	ESCAD	Mediterranean
CARTAGENA (Spain)	Spain	ESCAR	Mediterranean
CUETA	Spain	ESCEU	Mediterranean
FERROL	Spain	ESFRO	Europe
HORNILLO	Spain		Mediterranean
IBIZA	Spain	ESIBZ	Mediterranean
LAS PALMAS	Spain		Africa
MALAGA	Spain	ESAGP	Mediterranean
MARIN	Spain	ESMAR	Europe
MOTRIL	Spain	ESMOT	Mediterranean
PALMA DE MALLORCA	Spain	ESPMI	Mediterranean
PUERTO DE BILBAO	Spain		Europe
PUERTO DE CARBONERAS	Spain		Mediterranean
PUERTO DE GANDIA	Spain	ESGND	Mediterranean
ROSAS	Spain	ESROS	Mediterranean
ROTA	Spain	ESROT	Mediterranean
SAGUNTO	Spain	ESSAG	Mediterranean
SAN FELIU DE GUIXOLS	Spain	ESSFU	Mediterranean
SANTA CRUZ DE TENERIFE	Spain	ESSCT	Africa
TORREVIEJA	Spain	ESTOR	Mediterranean
VALENCIA	Spain	ESVLC	Mediterranean
VIGO	Spain	ESVGO	Europe
VILANOVA Y GELTRU	Spain		Mediterranean
COLOMBO	Sri Lanka	LKCMB	South Asia
AL LADHIQIYAH	Syria	SYALD	Mediterranean
CHI-LUNG	Taiwan		South China
KAO-HSIUNG	Taiwan	TWKHH	South China

Table A-3: Port Codes and Region Look-ups, Sorted by Country (Cont.)

Destination Name	Country	Port Code	Region Name
MAILIAO	Taiwan	TWMLI	South China
KO SI CHANG TERMINAL	Thailand		Southeast Asia
LAEM CHABANG	Thailand	THLCH	Southeast Asia
PORT DE LOME	Togo	TGLFW	Africa
CHAGUARAMAS	Trinidad and Tobago	TTCHA	East Coast South America
POINT LISAS INDUSTRIAL PORT	Trinidad and Tobago	TTPTS	East Coast South America
PORT OF SPAIN	Trinidad and Tobago	TTCHF	East Coast South America
BANZART	Tunisia		Mediterranean
TAZERKA OIL TERMINAL	Tunisia	TNTAT	Mediterranean
AMBARLI	Turkey	TRAMB	Black Sea
CANAKKALE	Turkey	TRCKZ	Mediterranean
GELIBOLU	Turkey	TRGEL	Mediterranean
HAYDARPASA	Turkey	TRHAY	Black Sea
ISTANBUL	Turkey	TRIST	Black Sea
KABA BURNU	Turkey		Black Sea
KARABIGA	Turkey	TRKRB	Mediterranean
MERSIN	Turkey	TRMER	Mediterranean
DNIPRO-BUZKYY	Ukraine		Black Sea
ILLICHIVSK	Ukraine	UAILK	Black Sea
ODESA	Ukraine	UAODS	Black Sea
YUZHNYY	Ukraine	UAYUZ	Black Sea
AL HAMRIYAH LPG TERMINAL	United Arab Emirates	AEHAM	Mid East
AL JAZEERA PORT	United Arab Emirates		Mid East
ASH SHARIQAH	United Arab Emirates		Mid East
DUBAYY	United Arab Emirates	AEDXB	Mid East
FATEH OIL TERMINAL	United Arab Emirates	AEFAT	Mid East
HULAYLAH OIL TERMINAL	United Arab Emirates	AEHTL	Mid East
KHAWR FAKKAN	United Arab Emirates	AEKLF	Mid East
MINA JABAL ALI	United Arab Emirates		Mid East
MINA SAQR	United Arab Emirates	AeMSA	Mid East
SHARJAH OFFSHORE TERMINAL	United Arab Emirates	AESHJ	Mid East
UMM AL QAYWAYN	United Arab Emirates		Mid East
ABERDEEN (UK)	United Kingdom	GBABD	Europe
AVONMOUTH	United Kingdom	GBAVO	Europe
BARRY	United Kingdom	GBBYG	Europe
CAERNARVON	United Kingdom	GBCNV	Europe
COWES HARBOUR	United Kingdom	GBCOW	Europe
DARTMOUTH HARBOUR	United Kingdom	GBDTM	Europe
DOVER HARBOR	United Kingdom	GBDVR	Europe
FAWLEY MARINE TERMINAL	United Kingdom	GBFAW	Europe
FELIXSTOWE	United Kingdom	GBFXT	Europe
FOLKESTONE HARBOUR	United Kingdom	GBFOL	Europe
GRAVESEND	United Kingdom	GBGVS	Europe
HARWICH	United Kingdom	GBHRW	Europe
ISLE OF GRAIN	United Kingdom	GBIOG	Europe
LITTLEHAMPTON HARBOUR	United Kingdom	GBLIT	Europe

Table A-3: Port Codes and Region Look-ups, Sorted by Country (Cont.)

Destination Name	Country	Port Code	Region Name
LIVERPOOL	United Kingdom	GBLIV	Europe
LIVERPOOL BAY TERMINAL	United Kingdom	GBLIB	Europe
LOWESTOFT	United Kingdom	GBLOW	Europe
NEWHAVEN HARBOUR	United Kingdom	GBNHV	Europe
NEWLYN	United Kingdom	GBNYL	Europe
PLYMOUTH	United Kingdom	GBPLY	Europe
POOLE HARBOUR	United Kingdom	GBPOO	Europe
PORTLAND HARBOUR	United Kingdom	GBPRH	Europe
PORTRSMOUTH HARBOUR	United Kingdom		Europe
RAMSGATE	United Kingdom	GBRMG	Europe
RYE HARBOUR	United Kingdom	GBRYE	Europe
SHEERNESS	United Kingdom	GBSHS	Europe
SOUTHAMPTON	United Kingdom	GBSOU	Europe
ST. MARY'S (SCILLY ISL.)	United Kingdom		Europe
THAMESPORT	United Kingdom	GBTHP	Europe
TILBURY	United Kingdom	GBTIL	Europe
WATCHET HARBOR	United Kingdom	GBWAT	Europe
WHITSTABLE	United Kingdom	GBWTS	Europe
YARMOUTH HARBOUR	United Kingdom	GBYMO	Europe
AKUTAN HARBOR	United States	USAKU	U.S. West Coast
ALAMEDA	United States	USNGZ	U.S. West Coast
ATLANTIC CITY	United States	USAIIY	U.S. East Coast
AVALON	United States	USAOU	U.S. West Coast
BALTIMORE	United States	USBAL	U.S. East Coast
BARBERS POINT TERMINAL	United States	USNAX	Pacific
BARNEGAT	United States	USBG7	U.S. East Coast
BAYONNE	United States	USBAY	U.S. East Coast
BAYWAY	United States		U.S. East Coast
BEAUFORT	United States	USBFO	U.S. East Coast
BODEGA BAY	United States	USDHB	U.S. West Coast
BOSTON	United States	USBOS	U.S. East Coast
BROOKLYN	United States	USAZF	U.S. East Coast
BRUNSWICK	United States	USBCK	U.S. East Coast
CANAVERAL HARBOR	United States	USCPV	U.S. East Coast
CAPE CHARLES	United States	USCCJ	U.S. East Coast
CHARLESTON	United States	USCHS	U.S. East Coast
CRESCENT CITY	United States	USCEC	U.S. West Coast
DAVENPORT	United States	USDAV	U.S. West Coast
DEEPWATER POINT	United States	USDPW	U.S. East Coast
DESTREHAN	United States	USNEW	U.S. Gulf Coast
DUTCH HARBOR	United States	USDUT	U.S. West Coast
EDWARDS POINT	United States	USDWP	U.S. West Coast
EL SEGUNDO	United States	USELS	U.S. West Coast
ELIZABETHPORT	United States	USEZ8	U.S. East Coast
FLORENCE	United States	USFCE	U.S. West Coast
FORT BRAGG	United States	USFBG	U.S. West Coast

Table A-3: Port Codes and Region Look-ups, Sorted by Country (Cont.)

Destination Name	Country	Port Code	Region Name
FORT WARD	United States	USYWD	U.S. West Coast
GALVESTON	United States	USGLS	U.S. Gulf Coast
GAVIOTA	United States		U.S. West Coast
GLEN COVE	United States	USGLN	U.S. West Coast
GLOUCESTER	United States	USG2C	U.S. East Coast
GREENPORT	United States	USGP4	U.S. East Coast
GRETNNA	United States	USGTL	U.S. Gulf Coast
GULFPORT SI	United States	USGFP	U.S. East Coast
HONOKAA	United States		Pacific
HONOLULU	United States	USHNL	Pacific
ILWACO	United States	USIQL	U.S. West Coast
ISTHMUS COVE	United States		U.S. West Coast
JACKSONVILLE	United States	USIJX	U.S. East Coast
KALAMA	United States	USKAM	U.S. West Coast
LA PUSH	United States		U.S. West Coast
LAKE CHARLES	United States	USLCH	U.S. Gulf Coast
LEONARDO	United States	USJND	U.S. East Coast
LONG BEACH	United States	USLB3	U.S. West Coast
LOOP TERMINAL	United States		U.S. Gulf Coast
LOS ANGELES	United States	USLAX	U.S. West Coast
MAKUSHIN	United States		U.S. West Coast
MARBLEHEAD	United States	USMH2	U.S. East Coast
MAYPORT	United States	USNRB	U.S. East Coast
MIAMI	United States	USMIA	U.S. East Coast
MONTAUK HARBOR	United States	USMTP	U.S. East Coast
MONTEREY	United States	USMY3	U.S. West Coast
MORRO BAY	United States	USMJK	U.S. West Coast
NANTUCKET	United States	USACK	U.S. East Coast
NEW ORLEANS	United States	USMSY	U.S. Gulf Coast
NEW YORK CITY	United States	USNYC	U.S. East Coast
NEWARK	United States	USEWR	U.S. East Coast
NEWPORT BEACH	United States	USJNP	U.S. West Coast
NEWPORT NEWS	United States	USNNS	U.S. East Coast
NORFOLK	United States	USNFF	U.S. East Coast
OAKLAND	United States	USKND	U.S. West Coast
OCEAN CITY	United States	USOCE	U.S. East Coast
PALM BEACH	United States	USPAB	U.S. East Coast
PATCHOGUE	United States	USPCP	U.S. East Coast
PAULSBORO	United States	USPAU	U.S. East Coast
PINEY POINT	United States	USPYC	U.S. East Coast
POINT RICHMOND	United States	USR14	U.S. West Coast
PORT ANGELES	United States	USCLM	U.S. West Coast
PORT EVERGLADES	United States	USPEF	U.S. East Coast
PORT RICHMOND SI	United States		U.S. East Coast
PORT SAN LUIS	United States	USPSL	U.S. West Coast
PORT SULPHUR	United States	USSUL	U.S. Gulf Coast

Table A-3: Port Codes and Region Look-ups, Sorted by Country (Cont.)

Destination Name	Country	Port Code	Region Name
PRINCETOWN	United States	USBLF	U.S. West Coast
PROVINCETOWN	United States	USPVC	U.S. East Coast
SALEM NJ	United States		U.S. East Coast
SAN FRANCISCO	United States	USSFO	U.S. West Coast
SAUSALITO	United States	USJMC	U.S. West Coast
SAVANNAH	United States	USSA8	U.S. East Coast
SEATTLE	United States	USSEA	U.S. West Coast
SOLOMONS ISLAND	United States	USOMU	U.S. East Coast
SOUTHPORT	United States	USSP4	U.S. East Coast
ST AUGUSTINE	United States	USUST	U.S. East Coast
ST HELENS	United States	USSTH	U.S. West Coast
ST PETERSBURG	United States	USPIE	U.S. Gulf Coast
STAPLETON SI	United States	USTAE	U.S. East Coast
TACOMA	United States	USTIW	U.S. West Coast
TAMPA	United States	USTPA	U.S. Gulf Coast
TOMPKINSVILLE SI	United States	USTPM	U.S. East Coast
TONGUE POINT	United States		U.S. West Coast
UNALASKA	United States	USUAA	U.S. West Coast
WILMINGTON	United States	USILG	U.S. East Coast
WILSON COVE	United States		U.S. West Coast
YERBABUENA ISLAND	United States		U.S. West Coast
JOSE IGNACIO	Uruguay	UYJIT	East Coast South America
MONTEVIDEO	Uruguay	UYMVD	East Coast South America
EL PALITO	Venezuela	VEELP	West Coast South America
LA GUAIRA	Venezuela	VELAG	West Coast South America
LAS PIEDRAS	Venezuela	VELSP	West Coast South America
PUERTO BORBURATA	Venezuela		West Coast South America
PUERTO CABELLO	Venezuela	VEPBL	West Coast South America
VENTERMINALS	Venezuela		West Coast South America
VAN PHONG BAN	Vietnam	VNVPH	Africa

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
DUBAYY	United Arab Emirates	AEDXB	Mid East
FATEH OIL TERMINAL	United Arab Emirates	AEFAT	Mid East
AL HAMRIYAH LPG TERMINAL	United Arab Emirates	AEHAM	Mid East
AL HAMRIYAH LPG TERMINAL	United Arab Emirates	AEHAM	Mid East
HULAYLAH OIL TERMINAL	United Arab Emirates	AEHTL	Mid East
KHAWR FAKKAN	United Arab Emirates	AEKLF	Mid East
MINA SAQR	United Arab Emirates	AeMSA	Mid East
SHARJAH OFFSHORE TERMINAL	United Arab Emirates	AESHJ	Mid East
CARACASBAAI	Netherlands Antilles	ANCRB	West Coast South America
WILLESTAD	Netherlands Antilles	ANWIL	West Coast South America
ASHDOD	Israel	ASH	Mediterranean
ASHDOD	Israel	ASH	Mediterranean
ANTWERPEN	Belgium	BEANR	Europe
VANCOUVER	Canada	CAVAN	Canada West Coast
POINTE NOIRE	Congo	CGPNR	Africa
PORT BOUET	Cote d'Ivoire	CIPBT	Africa
IQUIQUE	Chile	CLIQQ	West Coast South America
BAYUQUAN	China	CNBAY	North Asia
CHANGSHU	China	CNCGU	North Asia
CHAOZHOU	China	CNCOZ	South China
DALIAN	China	CNDLC	North Asia
FANG-CHENG	China	CNFAN	South China
HUANGPU	China	CNHUA	South China
JIANGYIN	China	CNJGY	North Asia
LUSHUN	China	CNLSH	North Asia
LIANYUNGANG	China	CNLYG	North Asia
QINGDAO GANG	China	CNQDP	North Asia
QUANZHOU	China	CNQZJ	South China
RIZHAO	China	CNRZH	North Asia
SHANGHAI	China	CNSHA	North Asia
SHEKOU	China	CNSHK	South China
QINHUANGDAO	China	CNSHP	North Asia
SHAN T OU	China	CNSTP	South China
TANGSHAN	China	CNTAS	North Asia
TIANJIN XIN GANG	China	CNTJP	North Asia
WEIHAI	China	CNWEI	North Asia

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
XIUYU	China	CNXIU	South China
XIAMEN	China	CNXMN	South China
YANTIAN	China	CNYTN	South China
ZHANGJIANGANG	China	CNZJG	North Asia
ZHOUSHAN	China	CNZOS	North Asia
ZHANGZHOU	China	CNZZU	South China
CARTAGENA (Columbia)	Colombia	COCTG	West Coast South America
EL BOSQUE	Colombia	CoeBQ	West Coast South America
MAMONAL	Colombia	COMAM	West Coast South America
PUERTO BOLIVAR	Colombia	COPBO	West Coast South America
SANTA MARTA	Colombia	COSMR	West Coast South America
PUERTO LIMON	Costa Rica	CRLIO	Mexico East Coast
PUERTO MOIN	Costa Rica	CRPMN	Mexico East Coast
LARNACA	Cyprus	CYLCA	Mediterranean
LIMASSOL	Cyprus	CYLMS	Mediterranean
BRUNSBUTTEL ELBAHAFEN	Germany	DEBRB	Europe
BREMERHAVEN	Germany	DEBRV	Europe
BUTZFLETH	Germany	DEBUZ	Europe
CUXHAVEN	Germany	DECUX	Europe
EMDEN	Germany	DEEME	Europe
HAMBURG	Germany	DEHAM	Europe
LEER	Germany	DELEE	Europe
NORDENHAM	Germany	DENHA	Europe
SASSNITZ	Germany	DESAS	Europe
STRALSUND	Germany	DESTL	Europe
WOLGAST	Germany	DEWOL	Europe
WILHELMSHAVEN	Germany	DEWVN	Europe
ARHUS	Denmark	DKAAR	Europe
ARHUS	Denmark	DKAAR	Europe
FREDERIKSHAVN	Denmark	DKFDH	Europe
FREDERICIA	Denmark	DKFRC	Europe
GRENAA HAVN	Denmark	DKGRE	Europe
KALUNDBORG	Denmark	DKKAL	Europe
MARSTAL	Denmark	DKMRS	Europe
ANNABA	Algeria	DZAAE	Mediterranean

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
ALGER	Algeria	DZALG	Mediterranean
ARZEW	Algeria	DZAZW	Mediterranean
AIN SUKHNA TERMINAL	Egypt	EGAIS	Suez
AIN SUKHNA TERMINAL	Egypt	EGAIS	Suez
DAMIETTA	Egypt	EGDMT	Suez
BUR SAID (PORT SAID)	Egypt	EGPSD	Suez
RAS SUDR	Egypt	EGRSU	Suez
SOKHNA PORT GAS TANKER TERMINAL	Egypt	EGSOK	Suez
ADRA	Spain	ESADR	Mediterranean
ADRA	Spain	ESADR	Mediterranean
MALAGA	Spain	ESAGP	Mediterranean
ALICANTE	Spain	ESALC	Mediterranean
ALICANTE	Spain	ESALC	Mediterranean
ALGECIRAS	Spain	ESALG	Mediterranean
ALGECIRAS	Spain	ESALG	Mediterranean
BARCELONA	Spain	ESBCN	Mediterranean
CADIZ	Spain	ESCAD	Mediterranean
CARTAGENA (Spain)	Spain	ESCAR	Mediterranean
CUETA	Spain	ESCEU	Mediterranean
FERROL	Spain	ESFRO	Europe
PUERTO DE GANDIA	Spain	ESGND	Mediterranean
IBIZA	Spain	ESIBZ	Mediterranean
ALMERIA	Spain	ESLEI	Mediterranean
ALMERIA	Spain	ESLEI	Mediterranean
MARIN	Spain	ESMAR	Europe
MOTRIL	Spain	ESMOT	Mediterranean
PALMA DE MALLORCA	Spain	ESPMI	Mediterranean
ROSAS	Spain	ESROS	Mediterranean
ROTA	Spain	ESROT	Mediterranean
SAGUNTO	Spain	ESSAG	Mediterranean
SANTA CRUZ DE TENERIFE	Spain	ESSCT	Africa
SAN FELIU DE GUIXOLS	Spain	ESSFU	Mediterranean
TORREVIEJA	Spain	ESTOR	Mediterranean
VIGO	Spain	ESVGO	Europe
VALENCIA	Spain	ESVLC	Mediterranean
HAMINA	Finland	FIHMN	Europe

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
PORVOO	Finland	FIPRV	Europe
BASTIA	France	FRBIA	Mediterranean
CALVI	France	FRCLY	Mediterranean
CALAIS	France	FRCQF	Europe
DUNKERQUE PORT OUEST	France	FRDKK	Europe
FECAMP	France	FRFEC	Europe
FOS	France	FRFZS	Mediterranean
GRAVELINES	France	FRGRV	Europe
HONFLEUR	France	FRHON	Europe
OUISTREHAM	France	FROUI	Europe
PORT-DE-BOUC	France	FRPDB	Mediterranean
PORT SAINT LOUIS DU RHONE	France	FRPSL	Mediterranean
ABERDEEN (UK)	United Kingdom	GBABD	Europe
ABERDEEN (UK)	United Kingdom	GBABD	Europe
AVONMOUTH	United Kingdom	GBAVO	Europe
AVONMOUTH	United Kingdom	GBAVO	Europe
BARRY	United Kingdom	GBBYG	Europe
CAERNARVON	United Kingdom	GBCNV	Europe
COWES HARBOUR	United Kingdom	GBCOW	Europe
DARTMOUTH HARBOUR	United Kingdom	GBDTM	Europe
DOVER HARBOR	United Kingdom	GBDVR	Europe
FAWLEY MARINE TERMINAL	United Kingdom	GBFAW	Europe
FOLKESTONE HARBOUR	United Kingdom	GBFOL	Europe
FELIXSTOWE	United Kingdom	GBFXT	Europe
GRAVESEND	United Kingdom	GBGVS	Europe
HARWICH	United Kingdom	GBHRW	Europe
ISLE OF GRAIN	United Kingdom	GBIOG	Europe
LIVERPOOL BAY TERMINAL	United Kingdom	GBLIB	Europe
LITTLEHAMPTON HARBOUR	United Kingdom	GBLIT	Europe
LIVERPOOL	United Kingdom	GBLIV	Europe
LOWESTOFT	United Kingdom	GBLOW	Europe
NEWHAVEN HARBOUR	United Kingdom	GBNHV	Europe
NEWLYN	United Kingdom	GBNYL	Europe
PLYMOUTH	United Kingdom	GBPLY	Europe
POOLE HARBOUR	United Kingdom	GBPOO	Europe
PORTLAND HARBOUR	United Kingdom	GBPRH	Europe

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
RAMSGATE	United Kingdom	GBRMG	Europe
RYE HARBOUR	United Kingdom	GBRYE	Europe
SHEERNESS	United Kingdom	GBSHS	Europe
SOUTHAMPTON	United Kingdom	GBSOU	Europe
THAMESPORT	United Kingdom	GBTHP	Europe
TILBURY	United Kingdom	GBTIL	Europe
WATCHET HARBOR	United Kingdom	GBWAT	Europe
WHITSTABLE	United Kingdom	GBWTS	Europe
YARMOUTH HARBOUR	United Kingdom	GBYMO	Europe
TEMA	Ghana	GHTEM	Africa
TAKORADI	Ghana	GHTKD	Africa
CONAKRY	Guinea	GNCKY	Africa
AYIOS NIKOLAOS	Greece	GRAGF	Mediterranean
AYIOS NIKOLAOS	Greece	GRAGF	Mediterranean
ASPROPIRGOS	Greece	GRASS	Mediterranean
ASPROPIRGOS	Greece	GRASS	Mediterranean
ELEVSIS	Greece	GRELE	Mediterranean
GAVRIO	Greece	GRGAV	Mediterranean
KALAMATA	Greece	GRKLX	Mediterranean
LAVRIO	Greece	GRLAV	Mediterranean
MEGARA OIL TERMINAL	Greece	GRMGR	Mediterranean
IRAKLION	Greece	GRNAI	Mediterranean
PERAMA	Greece	GRPER	Mediterranean
THESSALONIKI	Greece	GRSKG	Mediterranean
SPETSES	Greece	GRSPE	Mediterranean
PUERTO QUETZAL	Guatemala	GTPRQ	Mexico West Coast
HONG KONG	Hong Kong	HKHKG	South China
DUBROVNIK	Croatia	HRDBV	Mediterranean
UMAG	Croatia	HRUMG	Mediterranean
BELANAK FIELD TERMINAL	Indonesia	IDBNT	Southeast Asia
KIJANG	Indonesia	IDKIJ	Southeast Asia
PULAU SAMBU	Indonesia	IDPSS	Southeast Asia
SEKUPANG	Indonesia	IDSKP	Southeast Asia
TANJUNGUBAN	Indonesia	IDTAN	Southeast Asia
TANJUNG BALAI KARIMUN	Indonesia	IDTBU	Southeast Asia
JAKARTA	Indonesia	IDUTC	Southeast Asia

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
HAIFA	Israel	ILHFA	Mediterranean
MUNDRA	India	INMUN	South Asia
JAWAHARLAL NEHRU PORT (NHAVA SHIVA)	India	INNSA	South Asia
RATNAGIRI	India	INRTC	South Asia
TUTICORIN	India	INTUT	South Asia
BANDAR ABBAS	Iran	IRBND	Mid East
BANDAR-E SHAHID REAJIE	Iran	IRBSR	Mid East
BUSHEHR	Iran	IRBUZ	Mid East
ANCONA	Italy	ITAOI	Mediterranean
ANCONA	Italy	ITAOI	Mediterranean
BAGNOLI	Italy	ITBLN	Mediterranean
CAGLIARI	Italy	ITCAG	Mediterranean
CROTONE	Italy	ITCRV	Mediterranean
FIUMICINO	Italy	ITFCO	Mediterranean
GELA	Italy	ITGEA	Mediterranean
GENOVA	Italy	ITGEN	Mediterranean
GIOIA TAURO	Italy	ITGIT	Mediterranean
IMPERIA	Italy	ITIMP	Mediterranean
LICATA	Italy	ITLIC	Mediterranean
LIPARI	Italy	ITLIP	Mediterranean
LIVORNO	Italy	ITLIV	Mediterranean
MAZARA DEL VALLO	Italy	ITMAZ	Mediterranean
MARINA DI CARRARA	Italy	ITMDC	Mediterranean
NAPOLI	Italy	ITNAP	Mediterranean
PORTO EMPEDOCLE	Italy	ITPEM	Mediterranean
POZZUOLI	Italy	ITPOZ	Mediterranean
POZZALLO	Italy	ITPZL	Mediterranean
SALERNO	Italy	ITSAL	Mediterranean
SIRACUSA	Italy	ITSIR	Mediterranean
LA SPEZIA	Italy	ITSPE	Mediterranean
SAN REMO	Italy	ITSRE	Mediterranean
SAVONA	Italy	ITSVN	Mediterranean
TARANTO	Italy	ITTAR	Mediterranean
TORRE DEL GRECO	Italy	ITTDG	Mediterranean
TRAPANI	Italy	ITTPS	Mediterranean
TERMINI IMERESE	Italy	ITTRI	Mediterranean

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
TRIESTE	Italy	ITTRS	Mediterranean
MUGGIA	Italy	ITUGG	Mediterranean
VIBO VALENTIA MARINA	Italy	ITVVA	Mediterranean
KINGSTON	Jamaica	JMKIN	Caribbean / Gulf
PORT ANTONIO	Jamaica	JMPOT	Caribbean / Gulf
FUNABASHI	Japan	JPFNB	North Asia
HANNAN KO	Japan	JPHAN	North Asia
NIIHAMA	Japan	JPIHA	North Asia
INNOSHIMA	Japan	JPINS	North Asia
IZUHARA	Japan	JPIZH	North Asia
KIKUMA	Japan	JPKIK	North Asia
KAWASAKI KO	Japan	JPKWS	North Asia
KISARAZU KO	Japan	JPKZU	North Asia
MOJI KO	Japan	JPMOG	North Asia
OSAKA	Japan	JPOSA	North Asia
OWASE	Japan	JPOWA	North Asia
SAKAI-SENBOKU	Japan	JPSAK	North Asia
SHINGU	Japan	JPSHN	North Asia
SHIMOTSU	Japan	JPSMT	North Asia
TACHIBANA	Japan	JPTBN	North Asia
TOBATA	Japan	JPTBT	North Asia
TATEYAMA KO	Japan	JPTY	North Asia
KOBE	Japan	JPUKB	North Asia
URAGA KO	Japan	JPURG	North Asia
KRONSHTADT	Russia	KDT	Russia
MOMBASA	Kenya	KEMBA	Africa
ULSAN	Korea, South	KRONS	North Asia
CAYMAN BRAC	Cayman Islands	KYCYB	Caribbean / Gulf
COLOMBO	Sri Lanka	LKCMB	South Asia
KLAIPEDA	Lithuania	LTKLJ	Europe
RIGA	Latvia	LVRIX	Europe
AGADIR	Morocco	MAAGA	Africa
AGADIR	Morocco	MAAGA	Africa
CASABLANCA	Morocco	MACAS	Africa
MOHAMMEDIA	Morocco	MAMOH	Africa
MONACO	Monaco	MCMON	Mediterranean

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
MACAU	Macau	MCU	South China
FORT DE FRANCE	Martinique	MQFDF	Caribbean / Gulf
NOUAKCHOTT	Mauritania	MRNKC	Africa
MARSAXLOKK	Malta	MTMAR	Mediterranean
ALTAMIRA	Mexico	MXATM	Mexico East Coast
ALTAMIRA	Mexico	MXATM	Mexico East Coast
PROGRESO	Mexico	MXPGO	Mexico East Coast
VERACRUZ	Mexico	MIXVER	Mexico East Coast
MANZANILLO	Mexico	MXZLO	Mexico West Coast
ROSARITO	Mexico	MXZRO	Mexico West Coast
TANJUNG PELEPAS	Malaysia	MYTPP	Southeast Asia
BONNY	Nigeria	NGBON	Africa
LAGOS	Nigeria	NGLOS	Africa
ONNE	Nigeria	NGONN	Africa
TIN CAN ISLAND	Nigeria	NGTIN	Africa
DEN HELDER	Netherlands	NLDHR	Europe
EEMSHAVEN	Netherlands	NLEEM	Europe
EUROPOORT	Netherlands	NLEUR	Europe
HANSWEERT	Netherlands	NLHAN	Europe
HOEK VAN HOLLAND	Netherlands	NLHVH	Europe
IJMUIDEN	Netherlands	NLIJM	Europe
MAASSLUIS	Netherlands	NLMSL	Europe
ROTTERDAM	Netherlands	NLRTM	Europe
SCHEVENINGEN	Netherlands	NLSCE	Europe
SCHIEDAM	Netherlands	NLSCI	Europe
TERNEUZEN	Netherlands	NLTNZ	Europe
VLAARDINGEN	Netherlands	NLVLA	Europe
VLISSINGEN	Netherlands	NLVLI	Europe
ALESUND	Norway	NOAeS	Europe
ALESUND	Norway	NOAeS	Europe
ARENDAL	Norway	NOARE	Europe
ARENDAL	Norway	NOARE	Europe
KRAGERO	Norway	NOKRA	Europe
RISOR	Norway	NORIS	Europe
PORT LYTTELTON	New Zealand	NZLYT	Oceania
PICTON	New Zealand	NZPCN	Oceania

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
WELLINGTON	New Zealand	NZWLG	Oceania
MINA AL FAHL	Oman	OMMFH	Mid East
PORT OF SOHAR	Oman	OMSOH	Mid East
BALBOA	Panama	PABL8	Panama Canal
PUERTO CRISTOBAL	Panama	PACTB	Panama Canal
BAHIA DE LAS MINAS	Panama	PAPBM	Panama Canal
BATANGAS CITY	Philippines	PHBTG	Southeast Asia
MANILA	Philippines	PHMNL	Southeast Asia
GWADAR	Pakistan	PKGWD	Mid East
KARACHI	Pakistan	PKKHI	South Asia
MUHAMAMAD BIN QASIM	Pakistan	PKQCT	South Asia
GDANSK	Poland	PLGDN	Europe
GDYNIA	Poland	PLGDY	Europe
SWINUJSCIE	Poland	PLSWI	Europe
AGUADILLA	Puerto Rico	PRBQN	Caribbean / Gulf
AGUADILLA	Puerto Rico	PRBQN	Caribbean / Gulf
SAN JUAN	Puerto Rico	PRSJU	Caribbean / Gulf
FARO	Portugal	PTFAO	Mediterranean
FIGUEIRA DA FOZ	Portugal	PTFDF	Europe
LISBOA	Portugal	PTLIS	Europe
PONTA DELGADA	Portugal	PTPDL	Europe
SETUBAL	Portugal	PTSET	Europe
SINES	Portugal	PTSIE	Europe
VIANA DO CASTELO	Portugal	PTVDC	Europe
VILA DO PORTO	Portugal	PTVDP	Europe
DOHA	Qatar	QADOH	Mid East
CONSTANTA	Romania	ROCND	Black Sea
MANGALIA	Romania	ROMAG	Black Sea
AL JUBAYL	Saudi Arabia	SAJBI	Mid East
AL JUBAYL	Saudi Arabia	SAJBI	Mid East
JU AYMAH OIL TERMINAL	Saudi Arabia	SAJUT	Mid East
KEPPEL - (EAST SINGAPORE)	Singapore	SGKEP	Southeast Asia
PULAU BUKOM	Singapore	SGPUB	Southeast Asia
PULAU SEBAROK	Singapore	SGSEB	Southeast Asia
KOPER	Slovenia	SIKOP	Mediterranean
DAKAR	Senegal	SNDKR	Africa

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
ACAJUTLA	El Salvador	SVAQJ	Mexico West Coast
ACAJUTLA	El Salvador	SVAQJ	Mexico West Coast
ACAJUTLA OFFSHORE TERMINAL	El Salvador	SVAQJ	Mexico West Coast
ACAJUTLA OFFSHORE TERMINAL	El Salvador	SVAQJ	Mexico West Coast
AL LADHIQIYAH	Syria	SYALD	Mediterranean
AL LADHIQIYAH	Syria	SYALD	Mediterranean
BANGHAZI	Libya	SYBEN	Mediterranean
PORT DE LOME	Togo	TGLFW	Africa
LAEM CHABANG	Thailand	THLCH	Southeast Asia
TAZERKA OIL TERMINAL	Tunisia	TNTAT	Mediterranean
AMBARLI	Turkey	TRAMB	Black Sea
AMBARLI	Turkey	TRAMB	Black Sea
CANAKKALE	Turkey	TRCKZ	Mediterranean
GELIBOLU	Turkey	TRGEL	Mediterranean
HAYDARPASA	Turkey	TRHAY	Black Sea
ISTANBUL	Turkey	TRIST	Black Sea
KARABIGA	Turkey	TRKRB	Mediterranean
MERSIN	Turkey	TRMER	Mediterranean
CHAGUARAMAS	Trinidad and Tobago	TTCHA	East Coast South America
PORT OF SPAIN	Trinidad and Tobago	TTCHF	East Coast South America
POINT LISAS INDUSTRIAL PORT	Trinidad and Tobago	TTPTS	East Coast South America
KAO-HSIUNG	Taiwan	TWKHH	South China
MAILIAO	Taiwan	TWMLI	South China
ILLICHIVSK	Ukraine	UAILK	Black Sea
ODESA	Ukraine	UAODS	Black Sea
YUZHNY	Ukraine	UAYUZ	Black Sea
NANTUCKET	United States	USACK	U.S. East Coast
BROOKLYN	United States	USAFFZ	U.S. East Coast
ATLANTIC CITY	United States	USAIIY	U.S. East Coast
ATLANTIC CITY	United States	USAIIY	U.S. East Coast
AKUTAN HARBOR	United States	USAUKU	U.S. West Coast
AKUTAN HARBOR	United States	USAUKU	U.S. West Coast
AVALON	United States	USAOU	U.S. West Coast
AVALON	United States	USAOU	U.S. West Coast
BALTIMORE	United States	USBAL	U.S. East Coast
BAYONNE	United States	USBAY	U.S. East Coast

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
BRUNSWICK	United States	USBCK	U.S. East Coast
BEAUFORT	United States	USBFO	U.S. East Coast
BARNEGAT	United States	USBG7	U.S. East Coast
PRINCETOWN	United States	USBLF	U.S. West Coast
BOSTON	United States	USBOS	U.S. East Coast
CAPE CHARLES	United States	USCCJ	U.S. East Coast
CRESCENT CITY	United States	USCEC	U.S. West Coast
CHARLESTON	United States	USCHS	U.S. East Coast
PORT ANGELES	United States	USCLM	U.S. West Coast
CANAVERAL HARBOR	United States	USCPV	U.S. East Coast
DAVENPORT	United States	USDAV	U.S. West Coast
BODEGA BAY	United States	USDHB	U.S. West Coast
DEEPWATER POINT	United States	USDPW	U.S. East Coast
DUTCH HARBOR	United States	USDUT	U.S. West Coast
EDWARDS POINT	United States	USDWP	U.S. West Coast
EL SEGUNDO	United States	USELS	U.S. West Coast
NEWARK	United States	USEWR	U.S. East Coast
ELIZABETHPORT	United States	USEZ8	U.S. East Coast
FORT BRAGG	United States	USFBG	U.S. West Coast
FLORENCE	United States	USFCE	U.S. West Coast
GLOUCESTER	United States	USG2C	U.S. East Coast
GULFPORT SI	United States	USGFP	U.S. East Coast
GLEN COVE	United States	USGLN	U.S. West Coast
GALVESTON	United States	USGLS	U.S. Gulf Coast
GREENPORT	United States	USGP4	U.S. East Coast
GRETNNA	United States	USGTL	U.S. Gulf Coast
HONOLULU	United States	USHNL	Pacific
JACKSONVILLE	United States	USIJX	U.S. East Coast
WILMINGTON	United States	USILG	U.S. East Coast
ILWACO	United States	USIQL	U.S. West Coast
SAUSALITO	United States	USJMC	U.S. West Coast
LEONARDO	United States	USJND	U.S. East Coast
NEWPORT BEACH	United States	USJNP	U.S. West Coast
KALAMA	United States	USKAM	U.S. West Coast
OAKLAND	United States	USKNP	U.S. West Coast
LOS ANGELES	United States	USLAX	U.S. West Coast

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
LONG BEACH	United States	USLB3	U.S. West Coast
LAKE CHARLES	United States	USLCH	U.S. Gulf Coast
MARBLEHEAD	United States	USMH2	U.S. East Coast
MIAMI	United States	USMIA	U.S. East Coast
MORRO BAY	United States	USMJK	U.S. West Coast
NEW ORLEANS	United States	USMSY	U.S. Gulf Coast
MONTAUK HARBOR	United States	USMTP	U.S. East Coast
MONTEREY	United States	USMY3	U.S. West Coast
BARBERS POINT TERMINAL	United States	USNAX	Pacific
DESTREHAN	United States	USNEW	U.S. Gulf Coast
NORFOLK	United States	USNFF	U.S. East Coast
ALAMEDA	United States	USNGZ	U.S. West Coast
ALAMEDA	United States	USNGZ	U.S. West Coast
NEWPORT NEWS	United States	USNNS	U.S. East Coast
MAYPORT	United States	USNRB	U.S. East Coast
NEW YORK CITY	United States	USNYC	U.S. East Coast
OCEAN CITY	United States	USOCE	U.S. East Coast
SOLOMONS ISLAND	United States	USOMU	U.S. East Coast
PALM BEACH	United States	USPAB	U.S. East Coast
PAULSBORO	United States	USPAU	U.S. East Coast
PATCHOGUE	United States	USPCP	U.S. East Coast
PORT EVERGLADES	United States	USPEF	U.S. East Coast
ST PETERSBURG	United States	USPIE	U.S. Gulf Coast
PORT SAN LUIS	United States	USPSL	U.S. West Coast
PROVINCETOWN	United States	USPVC	U.S. East Coast
PINEY POINT	United States	USPYR	U.S. East Coast
POINT RICHMOND	United States	USR14	U.S. West Coast
SAVANNAH	United States	USSA8	U.S. East Coast
SEATTLE	United States	USSEA	U.S. West Coast
SAN FRANCISCO	United States	USSFO	U.S. West Coast
SOUTHPORT	United States	USSP4	U.S. East Coast
ST HELENS	United States	USSTH	U.S. West Coast
PORT SULPHUR	United States	USSUL	U.S. Gulf Coast
STAPLETON SI	United States	USTAE	U.S. East Coast
TACOMA	United States	USTIW	U.S. West Coast
TAMPA	United States	USTPA	U.S. Gulf Coast

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
TOMPKINSVILLE SI	United States	USTPM	U.S. East Coast
UNALASKA	United States	USUAA	U.S. West Coast
ST AUGUSTINE	United States	USUST	U.S. East Coast
FORT WARD	United States	USYWD	U.S. West Coast
JOSE IGNACIO	Uruguay	UYJIT	East Coast South America
MONTEVIDEO	Uruguay	UYMVD	East Coast South America
EL PALITO	Venezuela	VEELP	West Coast South America
LA GUAIRA	Venezuela	VELAG	West Coast South America
LAS PIEDRAS	Venezuela	VELSP	West Coast South America
PUERTO CABELLO	Venezuela	VEPBL	West Coast South America
VAN PHONG BAN	Vietnam	VNVPH	Africa
AL SHAHEEN TERMINAL	Qatar	XZSHA	Mid East
AL SHAHEEN TERMINAL	Qatar	XZSHA	Mid East
CAPE TOWN	South Africa	ZACPT	Africa
DURBAN	South Africa	ZADUR	Africa
PORT ELIZABETH	South Africa	ZAPLZ	Africa
RICHARDS BAY	South Africa	ZARCB	Africa
SALDANHA BAY	South Africa	ZASDB	Africa
AL ISKANDARIYH (ALEXANDRIA)	Egypt		Mediterranean
AL ISKANDARIYH (ALEXANDRIA)	Egypt		Mediterranean
AL JAZEERA PORT	United Arab Emirates		Mid East
AL JAZEERA PORT	United Arab Emirates		Mid East
AL KUWAYT	Kuwait		Mid East
AL KUWAYT	Kuwait		Mid East
AL RAYYAN TERMINAL	Qatar		Mid East
AL RAYYAN TERMINAL	Qatar		Mid East
ARRECIFE	Spain		Africa
ARRECIFE	Spain		Africa
AS SUWAYS	Egypt		Suez
AS SUWAYS	Egypt		Suez
ASH SHARIQAH	United Arab Emirates		Mid East
ASH SHARIQAH	United Arab Emirates		Mid East
BAHIA DE VALPARAISO	Chile		West Coast South America
BANZART	Tunisia		Mediterranean
BAYRUT	Lebanon		Mediterranean
BAYWAY	United States		U.S. East Coast

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
CHENNAI (MADRAS)	India		South Asia
CHI-LUNG	Taiwan		South China
CHINAE	Korea, South		North Asia
COLES BAY OIL TERMINAL	Netherlands Antilles		Caribbean / Gulf
DAMMAM	Saudi Arabia		Mid East
DNIPRO-BUZKYY	Ukraine		Black Sea
EL ISMAILIYA	Egypt		Suez
EL MAADIYA	Egypt		Mediterranean
EL-ADABIYA	Egypt		Suez
EUROPA POINT	Gibraltar		Mediterranean
GAVIOTA	United States		U.S. West Coast
HONOKAA	United States		Pacific
HORNILLO	Spain		Mediterranean
HUANGPUXINGANG	China		South China
HULUDAO GANG	China		North Asia
ISTHMUS COVE	United States		U.S. West Coast
JASK	Iran		Mid East
JAZIREH-YE HORMOZ	Iran		Mid East
JAZIREH-YE LAVAN OIL TERMINAL	Iran		Mid East
JAZIREH-YE SIRRI	Iran		Mid East
JINZHOU WAN	China		North Asia
JOHOR	Malaysia		Southeast Asia
JURONG ISLAND	Singapore		Southeast Asia
KABA BURNU	Turkey		Black Sea
KHAWR KHASAB	Oman		Mid East
KHIOS	Greece		Mediterranean
KHOMS	Libya		Mediterranean
KO SI CHANG TERMINAL	Thailand		Southeast Asia
LA PUSH	United States		U.S. West Coast
LAS PALMAS	Spain		Africa
LIMIN KOS	Greece		Mediterranean
LOOP TERMINAL	United States		U.S. Gulf Coast
M BAO OIL TERMINAL	Senegal		Africa
MAKUSHIN	United States		U.S. West Coast
MINA ASH SHUAYBAH	Kuwait		Mid East
MINA JABAL ALI	United Arab Emirates		Mid East

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
MINA QABUS	Oman		Mid East
MIINA TARABULUS (TRIPOLI)	Libya		Mediterranean
MISRATAH	Libya		Mediterranean
MUMBIA (BOMBAY)	India		South Asia
MUTUREZIMA KO	Japan		North Asia
MUUGA-PORT OF TALLIN	Estonia		Europe
NISOS NAXOS	Greece		Mediterranean
NORTH AIN SUKHNA PORT	Egypt		Suez
NOWY PORT	Poland		Europe
ORANJESTAD	Netherlands Antilles		Caribbean / Gulf
PAKHI OIL TERMINAL	Greece		Mediterranean
PHILLIPSBURG	Netherlands Antilles		Caribbean / Gulf
PIPAVAV BANDAR	India		South Asia
PIRAIEVS	Greece		Mediterranean
POLENG OIL FIELD	Indonesia		Southeast Asia
PORT DU HAVRE-ANTIFER	France		Europe
PORT KELANG	Malaysia		Southeast Asia
PORT OF LE HAVRE	France		Europe
PORT POLNOCHNY	Poland		Europe
PORT RICHMOND SI	United States		U.S. East Coast
PORTO DI CORSINI	Italy		Mediterranean
PORTO DI PALERMO	Italy		Mediterranean
PORTSMOUTH HARBOUR	United Kingdom		Europe
PTO MARITIMO DE QUAYAQUIL	Ecuador		West Coast South America
PUERTO BORBURATA	Venezuela		West Coast South America
PUERTO COLON	Panama		Panama Canal
PUERTO DE BILBAO	Spain		Europe
PUERTO DE CARBONERAS	Spain		Mediterranean
PUERTO ILO	Peru		West Coast South America
PUERTO SAN BARTOLOME	Mexico		Mexico West Coast
PUNTA VACA MONTE	Panama		Panama Canal
PUSAN	Korea, South		North Asia
QALHAT LNG TERMINAL	Oman		Mid East
RADA DE ARICA	Chile		West Coast South America
RADA DI VADO	Italy		Mediterranean
RADE DE BREST	France		Europe

Table A-4: Port Codes and Region Look-ups, Sorted by Port Code

Destination Name	Country	Port Code	Region Name
REGGIO DI CALABRIA	Italy		Mediterranean
RIJEKA LUKA	Croatia		Mediterranean
RUFISQUE	Senegal		Africa
SALEM NJ	United States		U.S. East Coast
SALINA	Netherlands Antilles		West Coast South America
SAN PEDRO	Cote d'Ivoire		Africa
SANKT-PETERBURG	Russia		Russia
SARROCH OIL TERMINAL	Italy		Mediterranean
SERANGOON HARBOR	Singapore		Southeast Asia
SKAGEN HAVN	Denmark		Europe
ST NAZaire	France		Europe
ST. MARY'S (SCILLY ISL.)	United Kingdom		Europe
TAESAN-HANG	Korea, South		North Asia
TANGIER-MEDITERRANEAN	Morocco		Mediterranean
TANJUNGPINANG	Indonesia		Southeast Asia
TELUK ANSON	Malaysia		Southeast Asia
TOKYO KO	Japan		North Asia
TONGUE POINT	United States		U.S. West Coast
TROIS RIVIERES	Canada		Great Lakes
UCLUELET	Canada		Canada West Coast
UKPOKITI MARINE TERMINAL	Nigeria		Africa
UMM AL QAYWAYN	United Arab Emirates		Mid East
VALLETTA HARBORS	Malta		Mediterranean
VENTERMINALS	Venezuela		West Coast South America
VILANOVA Y GELTRU	Spain		Mediterranean
VISHAKHAPATNAM	India		South Asia
WILSON COVE	United States		U.S. West Coast
YERBABUENA ISLAND	United States		U.S. West Coast
YITHION	Greece		Mediterranean
YOKOHAMA KO	Japan		North Asia
YOKOSUKA KO	Japan		North Asia
YOSU	Korea, South		North Asia
ZAFARANA TERMINAL	Egypt		Suez
ZHEN HAI	China		North Asia

Glossary

Glossary Term	Glossary Definition
Anchorages	Designated node where vessels wait intermediately if prohibited from reaching its destination due to congestion or constraints
Destination	The place to which a shipment is consigned and a vessel is directed
Draft Change	The absolute value of Arrival Draft minus Departure Draft
Panamax	The largest acceptable vessel size in order to transit the Panama Canal prior to the 2014 expansion
Ping	The AIS system transmittal of a vessel's spatial location and attribute data such as speed, heading, intended destination, etc, for a given point in time
Port	Defined in the A-DAPP according to the World Port Index definition of Port, includes only Large and Medium ports
Post-Panamax Gen	Denotes vessels that will not fit through the Panama Canal prior to the 2014 expansion
Route Group	Named itinerary or portion thereof that a vessel may travel before and after visiting the port of study
Service	Regular vessel transit across a set of regions
Sub-Panamax	Vessels that are able to enter most ports and go between container ports that are not served by larger ships
Vessel Call	Single port visit by vessel where dock visit(s) and commodity transfers occur
Vessel Class	Subset of vessel type; defined by user based upon physical parameters, commodities carried, sailing draft, sailing speeds, operating costs, and ocean sailing routes
Vessel Sub-Class	General category of vessels such as tankers, general cargo vessels, or container vessels, as defined by user
Vessels	Various types of ships that visit the harbor

Index

- A-DAPP*, 1, 3, 4, 5, 8, 15, 18, 19, 20, 22, 23, 24, 25, 26, 31, 34, 39, 40, 45
- Additional Sea Distance*, 39, 40
- AIS*. *See Automated Identification System*
- Anchorage*, 23, 25, 95
- Arrival Draft*, 33, 42
- Auto Report*, 33
- Automatic Identification System*, 1
- CDF*, 42
- Create Services*, 32, 33
- Custom Selection*, 32
- Data Pane*, 23, 25, 26, 31, 32, 33, 34, 35, 37, 40, 41, 43, 44
- Destination Name*, 25, 42, 51, 52, 66, 67
- Draft Change*, 33, 42
- Geographic Selection*, 32
- Global View*, 24, 25
- Graphics Pane*, 23, 24, 25, 35, 42, 43
- HarborSym*, 1, 31, 35, 39, 40
- IMO Number*, 26, 34, 41
- Latitude*, 25, 26, 42
- Longitude*, 25, 26, 42
- Look*, 43, 50, 51, 52, 66, 67, 79
- Manual Selection*, 33
- Menu Bar*, 22
- Move*, 43
- Movement*, 1
- Navigation Pane*, 23, 24, 25, 26, 31, 34, 37, 41, 43
- Navigation Tool*, 43
- Panama Canal*, 26, 50, 52, 61, 73, 95
- Panamax*, 26, 27, 28, 29, 34
- Ping*, 95
- Port*, 1, 5, 23, 24, 25, 31, 32, 33, 34, 35, 36, 37, 39, 40, 41, 42, 45, 51, 52, 66, 67, 79, 95
- Port View*, 32, 33
- Post Panamax Gen 1*, 26
- Post Panamax Gen 2*, 26
- Regions*, 25, 39, 40
- Route Group*, 31, 34, 35, 39, 40, 41, 42, 95
- Route String*, 26
- Service*, 26, 31, 35, 37, 42, 95
- Services*, 31, 34, 35, 36, 37, 41, 42
- Single Port*, 31
- Statistics*, 1, 33, 34, 42
- Sub-Panamax*, 26, 27, 34
- TEU*, 26, 27, 30
- Time at Dock*, 33, 42

<i>Title Bar</i> , 22	<i>Vessel Subclass</i> , 26, 34, 42
<i>Uninstall</i> , 21	<i>Vessels</i> , 1, 26, 33, 34, 35, 37, 41, 95
<i>Vessel Call</i> , 95	<i>W-DAPP</i> , 1, 42
<i>Vessel Class</i> , 26, 27, 34, 36, 37, 41, 42, 95	<i>World Port Index</i> , 25
<i>Vessel Name</i> , 26, 34, 42	<i>Zoom</i> , 43