

# CNA's Integrated Ship Database

## Second Quarter CY 2013 Update

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USNS *Alan Shepard* (T-AKE 3)



USNS *Bridge* (T-AOE 10)



USNS *Yukon* (T-AO 202)

DIS-2014-U-007712-Final  
October 2014

### Photo Credits

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USNS *Alan Shepard* (T-AKE-3) departing San Diego Bay to conduct sea trials, 12 June 2007. NASSCO photo, contributed by Mary Montgomery, General Dynamics NASSCO, San Diego, California, <http://www.navsource.org/archives/09/75/09750307.jpg>.

USNS *Bridge* (T-AOE-10) underway, date and location unknown. U.S. Navy/Military Sealift Command (MSC) photo, contributed by Robert Hurst, <http://www.navsource.org/archives/09/59/09591023.jpg>.

USNS *Yukon* (T-AO-202) underway, date and location unknown. U.S. Navy photo, MSC website, <http://www.navsource.org/archives/09/19/091920202.jpg>.

Approved for distribution:

October 2014



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# Introduction

## Background

In this CNA Interactive Software document, we present the update of our Integrated Ship Database (ISDB) for the second quarter of calendar year 2013.

In this version of the ISDB, as in the previous ones, we bring together data on naval ships from several different online government sources into a single combined database tool. The ISDB makes ship data readily accessible for analysis and reporting. By continually maintaining and updating the database, we are better able to respond promptly to requests for information on ships from our sponsor,<sup>1</sup> from other CNA research scientists and analysts, and from others in government as well.

Since our initial version in 2005 [1], we have published 29 quarterly updates [2–30]. All are available online on the [Integrated Ship Database page](#) of CNA's website, [www.cna.org](http://www.cna.org).

## Outline of this document

We begin with a brief overview of the ISDB to orient you in a general way to the database. But if you are looking for details, please refer to the original 2005 user's manual [1] and to the fourth quarter 2011 update [25]. In addition, the documentation of the second quarter 2012 update [27] discusses the changes we made due to the Military Sealift Command's (MSC) organizational realignment of 2012 [31].

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1. This work is being conducted as part of CNA's Historic Fleet Employment Database Project, sponsored by the Deputy Chief of Naval Operations for Operations, Plans, and Strategy (N3/N5).

After the overview, we discuss our changes to the database because of modifications to the Naval Vessel Register (NVR), the MSC Ship Inventory, and the Maritime Administration's (MARAD) National Defense Reserve Fleet (NDRF) Inventory between April 1 and June 30, 2013.

Finally, we present ship counts and inventory summaries as of June 30, 2013.

## ISDB overview

In this section, we present an overview of the Integrated Ship Database. We tell you where to find the database online and how to access it. Then we show how the Microsoft Excel database file is organized according to worksheet tabs for documentation, database navigation, data tables, and pivot tables for display and analysis.

### Accessing the database

You can find all issues of the database on the Integrated Ship Database page on CNA's website ([www.cna.org](http://www.cna.org)). The specific address for the main page for the database is <http://www.cna.org/centers/operations-tactics/ship-database> [32]. Figure 1 illustrates the main page.<sup>2</sup>

Figure 2 is a view of the bottom portion of the main page. It contains a list of the database products for calendar years 2012 and 2013, a link to the Database Archive, and a list of our data source organizations and respective points of contact.

Figure 3 shows the top portion of the Database Archive web page. Here you will find all our database products between September 2005 and December 2011.

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2. Figures 1–3 display these web pages as of the time that this document was prepared. We update the ISDB web pages periodically, so depending on when you access the website, you may find some differences in details.

Figure 1. Main web page for the Integrated Ship Database

**CNA**  
ANALYSIS & SOLUTIONS

Home > Solution Centers > Center for Naval Analyses > Operations & Tactics Analysis >

## CNA Corporation's Integrated Ship Database

CNA Corporation's Integrated Ship Database contains selected information on particular ships throughout the fleet's history. The database has been compiled from authorized online U.S. Navy and U.S. government sources, including:

- › The [Navy's Naval Vessel Register SHIPS](#) website
- › The Military Sealift Command's [Ship Inventory](#)
- › The Naval History & Heritage Command's [Dictionary of American Naval Fighting Ships \(DANFS\)](#) and [Ship History/Command Operations Reports](#)
- › The Maritime Administration's [National Defense Reserve Fleet \(NDRF\) Inventory Reports](#)
- › The Navy Chief of Information's [United States Navy Fact File](#)

With the database, you can see the makeup of the Navy's Battleforce. You can find where ships are in their life cycle—authorized by Congress, under construction, in commission/in service, stricken from the Register, or disposed.

For additional detail on the layout of the database and for instructions on how to use it, please refer to our [overview](#) in the December 2011 update or our original 2005 [User's Manual](#).

CNA Corporation's Integrated Ship Database was developed and is maintained by senior research scientist Greg Sues, Ph.D. (703.824.2231) and associate advisor Lynette McClain (703.824.2855). If you have any questions, please contact us. We also welcome your thoughts and suggestions on improvements in this product.

Figure 2. Lower section of the main database page

## 2013

### December 2013

- › [ISDB2013-12.xlsm](#) 

### September 2013

- › [ISDB2013-09.xlsm](#) 

### June 2013

- › [ISDB2013-06.xlsm](#) 

### March 2013

- › [ISDB2013-03.xlsm](#) 

## 2012

### December 2012

- › [ISDB2012-12.xlsm](#) 
- › [Documentation](#)  (CNA Interactive Software DIS-2014-U-006685-Final)

### September 2012

- › [ISDB2012-09.xlsm](#) 
- › [Documentation](#)  (CNA Interactive Software DIS-2013-U-005782-Final)

### June 2012

- › [ISDB2012-06.xlsm](#)  Excel Macro-Enabled Worksheet (For Excel 2007 and 2010)
- › [ISDB2012-06.xls](#)  Excel 97-2003 Worksheet (For Excel 2003, Excel 2007 in Compatibility Mode, and Excel 2010 in Compatibility Mode)
- › [Documentation](#)  (CNA Interactive Software DIS-2012-U-003585-Final)

### March 2012

- › [ISDB2012-03.xlsm](#) 
- › [ISDB2012-03.xls](#) 

## Database Archive

- › [Click here to view database updates from 2005 to 2011](#)

(This page was last updated on April 10, 2014)

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## Data Sources

- › **Naval Vessel Register**  
[NFSH\\_NNSY\\_NVR\\_CUSTODIAN@NAVY.MIL](mailto:NFSH_NNSY_NVR_CUSTODIAN@NAVY.MIL)
- › **U.S. Navy Fact File**  
Marie Tillery 202.433.0572
- › **National Defense Reserve Fleet Inventory**  
Barbara Voulgaris
- › **Military Sealift Command Ship Inventory**  
Kevin Mabon 202.685.5319
- › **Naval History and Heritage Command**  
Dan Jones 202.433.6801

Figure 3. The Database Archive web page

Home > Solution Centers > CNA's Center for Naval Analyses > Operations & Tactics Analysis > Integrated Ship Database >

## CNA's Integrated Ship Database

[Back to the Integrated Ship Database main page](#)

### Database Archive

(This page was last updated on February 14, 2013)

#### 2011

- › December 2011
  - › ISDB2011-12.xlsm  Excel Macro-Enabled Worksheet (For Excel 2007 and 2010)
  - › ISDB2011-12.xls  Excel 97-2003 Worksheet (For Excel 2003, Excel 2007 in Compatibility Mode, and Excel 2010 in Compatibility Mode)
  - › Documentation 
- › September 2011  and cover memo 
- › June 2011  and cover memo 
- › March 2011  and cover memo 

#### 2010

- › December 2010  and cover memo 
- › September 2010  and cover memo 
- › June 2010  and cover memo 
- › March 2010  and cover memo 

#### 2009

- › December 2009  and cover memo 
- › September 2009  and cover memo 
- › June 2009  and cover memo 
- › March 2009  and cover memo 

#### 2008

- › December 2008  and cover memo 
- › September 2008  and cover memo 
- › June 2008  and cover memo 
- › March 2008  and cover memo 

#### 2007

- › December 2007  and cover memo 
- › September 2007  and cover memo 
- › June 2007  and cover memo 
- › March 2007  and cover memo 

#### 2006

- › December 2006  and cover memo 
- › September 2006  and cover memo 
- › June 2006  and cover memo 
- › March 2006  and cover memo 

#### 2005

- › September 2005 

### CNA's Center for Naval Analyses

- › Advanced Technology & Systems Analysis
- › China Studies
- › Marine Corps Division
- › Operations & Tactics Analysis
  - › Integrated Ship Database
    - › Database Archive
    - › Cyber Research
    - › Selected Studies
- › Operations Evaluation Group
- › Resource Analysis
- › Strategic Studies

# Organization of the ISDB file

## The Document tab

Upon opening the database file, you will see the view in figure 4. The graphic of the document cover contains an associated hyperlink for immediate access to the documentation. Double-click the graphic and the PDF document will immediately open if you have the appropriate Adobe software installed on your computer. (If you don't, go to <http://get.adobe.com/reader/> to download the software.) The Document tab is the first of ten tabs in the file. You can see the tabs at the bottom of the sheet.

## The Directory tab

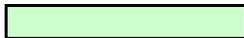
Figure 5 shows the next tab in the file—the Directory tab. The Directory helps you navigate to the various tabs in the database.

## DataTableOriginal

The DataTableOriginal tab contains all the data. See figure 6 for a view of the top portion of the sheet. The rows in the sheet are the records of the database, one row for each ship hull unit. The columns are the database fields.

### The records

We have color-coded the records in the database to depict the various Status categories:

- Authorized for construction 
- Under construction 
- Active 
- Naval Reserve Force, Active 
- Special, miscellaneous 
- In reserve 
- Leased or loaned 
- Stricken 

∞ Figure 4. The Document tab

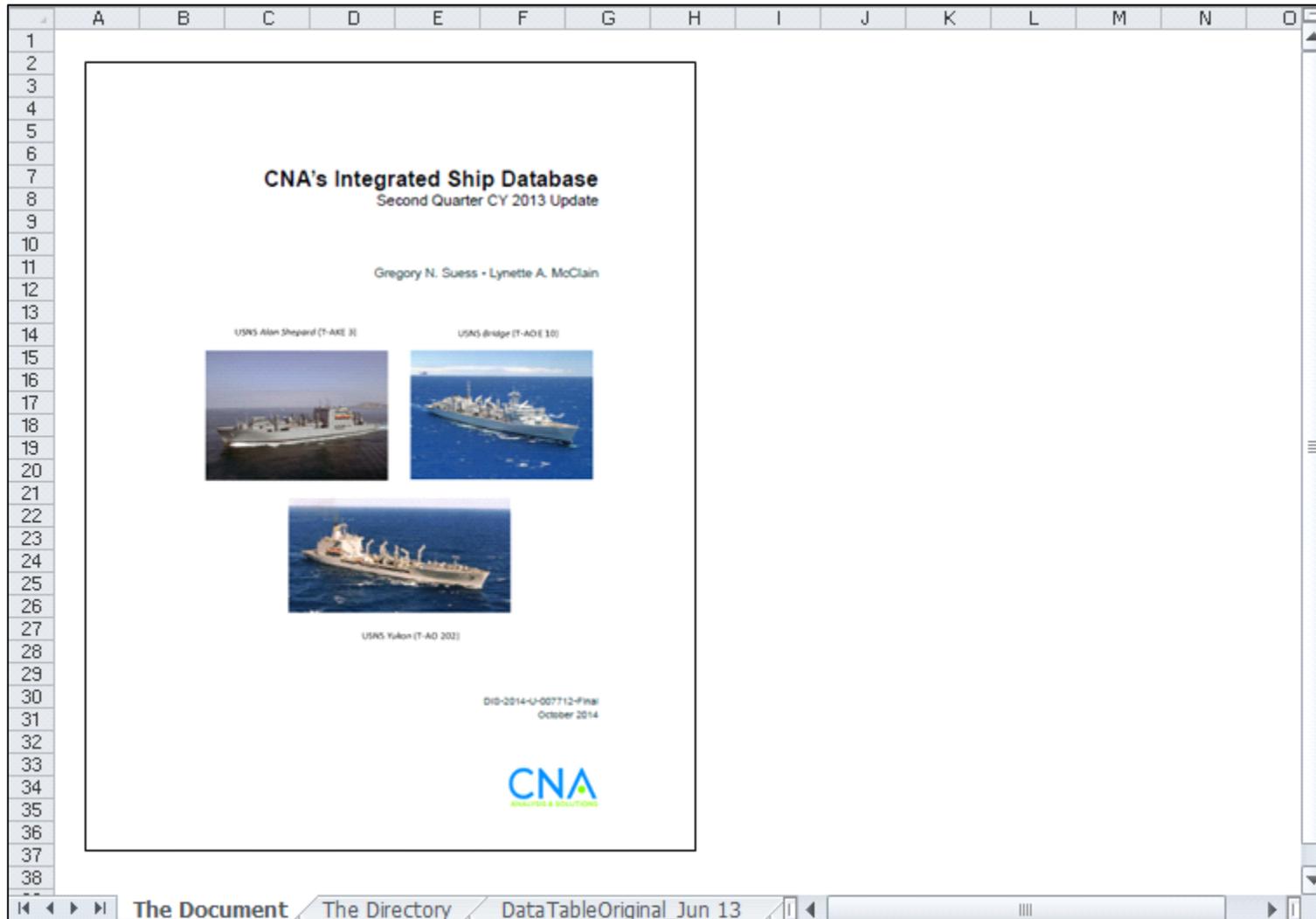


Figure 5. The Directory tab

The screenshot shows an Excel spreadsheet with columns A, B, and C, and rows 1 through 20. The content is organized into three main sections: 'The Database', 'Database Worksheet', and 'Pivot Tables'. Each section has a header in column A and a list of links in column B. The 'Pivot Tables' section is enclosed in a rectangular box.

	A	B	C
1			
2			
3	<b>The Database</b>	<a href="#">DataTableOriginal Jun 13</a>	
4			
5	<b>Database Worksheet</b>	<a href="#">DataTableCopy</a>	
6			
7	<b>Pivot Tables</b>	<a href="#">The Basic Pivot Table</a>	
8			
9		<a href="#">QuikLook Pivot Table on SECNAVINST 5030.8A Battleforce Ships</a>	
10			
11		<a href="#">QuikLook Pivot Table on SECNAVINST 5030.8A Non-Battleforce Ships</a>	
12			
13		<a href="#">QuikLook Pivot Table for NVR Ship Battle Forces</a>	
14			
15		<a href="#">QuikLook Pivot Table for NVR Local Defense and Miscellaneous Support Forces</a>	
16			
17		<a href="#">Ship Age PivotTable for Battleforce Ships</a>	
18			
19			
20			

The spreadsheet interface includes a tab bar at the bottom with the following tabs: 'The Document', 'The Directory', 'DataTableOriginal Jun 13', 'DataTableCopy', and 'Basic Pivot'. The 'The Directory' tab is currently selected.

Figure 6. DataTableOriginal

1	<a href="#">Return to The Directory</a>	Today is	Thursday	May 29, 2014						
2	Ship Name	Abbrev	Prefix	Hull No. (NVR Link)	NVR Type	UIC	Status	Date Status Changed		C (Navy Fa
3	JOHN FINN			<a href="#">DDG 113</a>	DDG Guided Missile Destroyer	20010	Authorized, for US Navy construction	6/15/2011	<a href="#">DDG 51 Destroyers</a>	
4	RALPH JOHNSON			<a href="#">DDG 114</a>	DDG Guided Missile Destroyer	50125	Authorized, for US Navy construction	9/26/2011	<a href="#">DDG 51 Destroyers</a>	
5	RAFAEL PERALTA			<a href="#">DDG 115</a>	DDG Guided Missile Destroyer	50126	Authorized, for US Navy construction	9/26/2011	<a href="#">DDG 51 Destroyers</a>	
6	THOMAS HUDNER			<a href="#">DDG 116</a>	DDG Guided Missile Destroyer	50137	Authorized, for US Navy construction	2/28/2012	<a href="#">DDG 51 Destroyers</a>	
7	PAUL IGNATIUS			<a href="#">DDG 117</a>	DDG Guided Missile Destroyer		Authorized, for US Navy construction	6/3/2013	<a href="#">DDG 51 Destroyers</a>	
8	DANIEL INDOUYE			<a href="#">DDG 118</a>	DDG Guided Missile Destroyer		Authorized, for US Navy construction	6/3/2013	<a href="#">DDG 51 Destroyers</a>	
9	LYNDON B JOHNSON			<a href="#">DDG 1002</a>	DDG Guided Missile Destroyer	4163	Authorized, for US Navy construction	9/15/2011	<a href="#">DDG 1000 Destroyers</a>	
10	MILWAUKEE			<a href="#">LCS 5</a>	LCS Littoral Combat Ship	20134	Authorized, for US Navy construction	12/29/2010	<a href="#">LCS Littoral Combat Ships /J</a>	
11	LITTLE ROCK			<a href="#">LCS 9</a>	LCS Littoral Combat Ship	20138	Authorized, for US Navy construction	3/16/2012	<a href="#">LCS Littoral Combat Ships /J</a>	
12	GABRIELLE GIFFORDS			<a href="#">LCS 10</a>	LCS Littoral Combat Ship	20139	Authorized, for US Navy construction	3/16/2012	<a href="#">LCS Littoral Combat Ship /J/n</a>	
13	SIOUX CITY			<a href="#">LCS 11</a>	LCS Littoral Combat Ship	20140	Authorized, for US Navy construction	3/16/2012	<a href="#">LCS Littoral Combat Ships /J</a>	
14	OMAHA			<a href="#">LCS 12</a>	LCS Littoral Combat Ship	20141	Authorized, for US Navy construction	3/16/2012	<a href="#">LCS Littoral Combat Ship /J/n</a>	
15	WICHITA			<a href="#">LCS 13</a>	LCS Littoral Combat Ship		Authorized, for US Navy construction	3/4/2013	<a href="#">LCS Littoral Combat Ships /J</a>	
16	MANCHESTER			<a href="#">LCS 14</a>	LCS Littoral Combat Ship		Authorized, for US Navy construction	3/4/2013	<a href="#">LCS Littoral Combat Ship /J/n</a>	
17	TRIPOLI			<a href="#">LHA 7</a>	LHA Amphibious Assault Ship (General Purpose)		Authorized, for US Navy construction	5/31/2012	<a href="#">LHA 6 Amphibious Assault S</a>	
18	LEWIS B. FULLER			<a href="#">MLP 3</a>	MLP Mobile Landing Platform	41038	Authorized, for US Navy construction	2/26/2012	<a href="#">MLP 1 Mobile Landing Platfor</a>	
19	WASHINGTON			<a href="#">SSN 787</a>	SSN Submarine (Nuclear-Powered)	20182	Authorized, for US Navy construction	12/22/2008	<a href="#">SSN 774 Attack Submarines</a>	
20	ILLINOIS			<a href="#">SSN 788</a>	SSN Submarine (Nuclear-Powered)	20181	Authorized, for US Navy construction	12/22/2008	<a href="#">SSN 774 Attack Submarines</a>	
21	COLORADO			<a href="#">SSN 788</a>	SSN Submarine (Nuclear-Powered)	27150	Authorized, for US Navy construction	12/22/2008	<a href="#">SSN 774 Attack Submarines</a>	
22	INDIANA			<a href="#">SSN 789</a>	SSN Submarine (Nuclear-Powered)	27151	Authorized, for US Navy construction	12/22/2008	<a href="#">SSN 774 Attack Submarines</a>	
23	SOUTH DAKOTA			<a href="#">SSN 790</a>	SSN Submarine (Nuclear-Powered)	27152	Authorized, for US Navy construction	12/22/2008	<a href="#">SSN 774 Attack Submarines</a>	
24	DELAWARE			<a href="#">SSN 791</a>	SSN Submarine (Nuclear-Powered)	27153	Authorized, for US Navy construction	12/22/2008	<a href="#">SSN 774 Attack Submarines</a>	
25	TRENTON			<a href="#">JHSV 5</a>	JHSV Joint High Speed Vessel	29788	Authorized, for US Navy construction	4/15/2013	<a href="#">JHSV 1 Joint High Speed Ves</a>	
26	BISMARCK			<a href="#">JHSV 3</a>	JHSV Joint High Speed Vessel	29792	Authorized, for US Navy construction	2/24/2012	<a href="#">JHSV 1 Joint High Speed Ves</a>	
27	BRUNSWICK			<a href="#">JHSV 6</a>	JHSV Joint High Speed Vessel	29789	Authorized, for construction	6/30/2011	<a href="#">JHSV 1 Joint High Speed Ves</a>	
28	CARSON CITY			<a href="#">JHSV 7</a>	JHSV Joint High Speed Vessel	29790	Authorized, for construction	6/30/2011	<a href="#">JHSV 1 Joint High Speed Ves</a>	
29	YUMA			<a href="#">JHSV 8</a>	JHSV Joint High Speed Vessel	29791	Authorized, for US Navy construction	2/24/2012	<a href="#">JHSV 1 Joint High Speed Ves</a>	
30	BURLINGTON			<a href="#">JHSV 10</a>	JHSV Joint High Speed Vessel	29793	Authorized, for US Navy construction	12/20/2012	<a href="#">JHSV 1 Joint High Speed Ves</a>	
31	PORTLAND			<a href="#">LPD 27</a>	LPD Amphibious Transport Dock	3277A	Hull number assigned, authorized to be built, construction contract has not been awarded	6/5/2013	<a href="#">LPD 17 Amphibious Transpo</a>	
32	MAURY			<a href="#">AGS 66</a>	AGS Surveying Ship	10544	Under construction in US by Navy, unassigned to fleet	2/1/2011	<a href="#">AGS 60 Oceanographic Surv</a>	
33	NEIL ARMSTRONG			<a href="#">AGOR 27</a>	AGOR Oceanographic Research Ship	20175	Under construction in US by Navy, unassigned to fleet	8/17/2012		
34	GERALD R. FORD			<a href="#">CVN 78</a>	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	23173	Under construction in US by Navy, unassigned to fleet	11/14/2009	<a href="#">CVN 78 Aircraft Carriers</a>	
35	ZUMWALT			<a href="#">DDG 1000</a>	DDG Guided Missile Destroyer	20121	Under construction in US by Navy, unassigned to fleet	2/11/2009	<a href="#">DDG 1000 Destroyers</a>	
36	MICHAEL MONSOOR			<a href="#">DDG 1000</a>	DDG Guided Missile Destroyer	23189	Under construction in US by Navy, unassigned to fleet	5/23/2013	<a href="#">DDG 1000 Destroyers</a>	
37	MILLINOCKET			<a href="#">JHSV 3</a>	JHSV Joint High Speed Vessel	29786	Under construction in US by Navy, unassigned to fleet	5/3/2012	<a href="#">JHSV 1 Joint High Speed Ves</a>	
38	FALL RIVER			<a href="#">JHSV 4</a>	JHSV Joint High Speed Vessel	29787	Under construction in US by Navy, unassigned to fleet	5/20/2013	<a href="#">JHSV 1 Joint High Speed Ves</a>	
39	CORONADO			<a href="#">LCS 4</a>	LCS Littoral Combat Ship	20131	Under construction in US by Navy, unassigned to fleet	5/28/2013	<a href="#">LCS Littoral Combat Ships /J</a>	
40	JACKSON			<a href="#">LCS 6</a>	LCS Littoral Combat Ship	20135	Under construction in US by Navy, unassigned to fleet	12/29/2010	<a href="#">LCS Littoral Combat Ships /J</a>	
41	DETROIT			<a href="#">LCS 7</a>	LCS Littoral Combat Ship	20136	Under construction in US by Navy, unassigned to fleet	1/18/2012	<a href="#">LCS Littoral Combat Ships /J</a>	
42	MONTGOMERY			<a href="#">LCS 8</a>	LCS Littoral Combat Ship	20137	Under construction in US by Navy, unassigned to fleet	6/25/2013	<a href="#">LCS Littoral Combat Ships /J</a>	
43	AMERICA			<a href="#">LHA 6</a>	LHA Amphibious Assault Ship (General Purpose)	20103	Under construction in US by Navy, unassigned to fleet	12/8/2008	<a href="#">LHA 6 Amphibious Assault S</a>	
44	SOMERSET	SOM		<a href="#">LPD 25</a>	LPD Amphibious Transport Dock	23181	Under construction in US by Navy, unassigned to fleet	12/11/2009	<a href="#">LPD 17 Amphibious Transpo</a>	
45	JOHN P MURTHA			<a href="#">LPD 26</a>	LPD Amphibious Transport Dock	23182	Under construction in US by Navy, unassigned to fleet	6/8/2012	<a href="#">LPD 17 Amphibious Transpo</a>	
46	JOHN GLENN			<a href="#">MLP 2</a>	MLP Mobile Landing Platform	41037	Under construction in US by Navy, unassigned to fleet	12/4/2012	<a href="#">MLP 1 Mobile Landing Platfor</a>	
47	NORTH DAKOTA			<a href="#">SSN 784</a>	SSN Submarine (Nuclear-Powered)	20037	Under construction in US by Navy, unassigned to fleet	5/11/2012	<a href="#">SSN 774 Attack Submarines</a>	
48	JOHN WARNER			<a href="#">SSN 785</a>	SSN Submarine (Nuclear-Powered)	20038	Under construction in US by Navy, unassigned to fleet	3/18/2013	<a href="#">SSN 774 Attack Submarines</a>	
49	CONSTITUTION		USS	"Old Ironsides"	Other	01024	Active, in commission	10/11/871	"Old Ironsides"	
50	PUEBLO	PBL	USS	<a href="#">AGER 2</a>	AGER Environmental Research Ship	20256	Active, in commission	5/13/1967	<a href="#">AGER 2 Environmental Rese</a>	
51	BUNKER HILL	BKH	USS	<a href="#">CG 62</a>	CG Guided Missile Cruiser	21345	Active, in commission	9/20/1986	<a href="#">CG 47 Cruisers</a>	
52	MOBILE BAY	MOB	USS	<a href="#">CG 63</a>	CG Guided Missile Cruiser	21346	Active, in commission	2/21/1987	<a href="#">CG 47 Cruisers</a>	

- Donated as museum, memorial 
- Disposed 
- Lost, sunk 
- Military Sealift Command 
- MARAD/NDRF 
- Hull number assigned, not built 
- Reclassed 
- No NVR status 
- Historical from PMARS,<sup>3</sup> DANFS,<sup>4</sup> www.navy.mil 

### The fields

Each record in the ISDB is made up of 32 fields:

- Ship Name
- Abbrev (for ship abbreviation, usually a trigraph)
- Prefix
- Hull number (with link to [NVR web page](#))
- NVR Type
- UIC (for Unit Identification Code)
- Status
- Date Status Changed
- Class (with link to [Navy Fact File](#))
- NVR Force

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3. PMARS: MARAD's Property Management and Archive Record System

4. DANFS: Dictionary of American Naval Fighting Ships from the Naval History and Heritage Command (NHHC)

- 5030.8A Force
- 5030.8A Ship Category
- 5030.8A Ship Classification
- 5030.8A Ship Type
- [MSC Ship Link](#)
- MSC Type, with link to MSC Program page—e.g., to [Sealift \(PM5\) page](#)
- MARAD/NDRF Program-Type/Status (with link to [NDRF page](#))
- DANFS Entry (with link to [NHHC's DANFS ship page](#))
- Ship History Report (with link to [NHHC's Ship Histories/Command Operations Reports Index](#))
- Homeport (with link to [NVR Homeport page](#)) as of the end of June 2013
- Previous, Other Names
- Award Date
- Keel Date
- Launch Date
- Delivery Date
- Commission Date
- Age of the ship<sup>5</sup>
- Decommission/Out Of Action (OOA) Date
- Inactivation Date
- Stricken Date
- Date last updated
- Additional Comments, References

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5. For commissioned ships, the age is the time between its delivery date and the latest date the Pivot Table was refreshed. For historical ships, the age is based on the delivery date and the decommission/OOA date. If either of these dates is unavailable, we use the commission date and/or the inactivation date, respectively.

## **DataTableCopy**

We have protected the DataTableOriginal page to prevent unintentional data changes and maintain configuration control. With page protection, however, Microsoft Excel inhibits some features.

By copying DataTableOriginal into the blank DataTableCopy, all features are available. With this table, you can modify the contents of DataTableOriginal to suit your needs, while preserving the data table in its original form on the DataTableOriginal workbook.

## **The Pivot Tables**

We've used Excel Pivot Tables to display the contents of the database in several different summary forms. Pivot Tables enable you to examine the contents of the database at varying levels of specificity.

### **BasicPivotTable**

As shown in figure 7, the Basic Pivot Table presents a view of the makeup of the entire ISDB. There, you can see the distribution of the 3,178 ship records by Ship Status Group.

To demonstrate the ease and flexibility of pivot tables in Excel, we present a sequence from the fully compressed Basic Pivot Table in figure 7 to a fully expanded view of the Active Status Group in figure 10.

First, we need to filter the table to present only the Active Status Group. Figure 8 shows the drop-down menu for column A with the Active Status Group selected. Click ok.

Figure 9 then displays how to expand the compressed Active Status Group into the specific individual ship Status type, NVR Ship Type, Hull Number, and Ship Name. A right-click in the Status Group cell produces the drop-down menu with which the entire Status Group field can be expanded. Figure 10 is the top portion of the resulting expansion.

Figure 7. Basic Pivot Table

Count of Ship Name	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
Authorized					29
Under construction					18
Active					248
Naval Reserve Force, Active					5
In Reserve					14
Leased					7
Loan					2
Stricken					102
Disposed					1,978
Special, Miscellaneous (MSC Chartered and MARAD/NDRF Ready Reserve Force (RRF))					58
Military Sealift Command (MSC), Contract Operated					33
Military Sealift Command (MSC) Naval Fleet Auxiliary Force					44
Military Sealift Command (MSC), Special Mission Ships					17
Military Sealift Command (MSC), in service (Sealift Program)					2
Military Sealift Command (MSC), Not in NVR					16
Other NVR					43
Other, Not in NVR					562
<b>Grand Total</b>					<b>3,178</b>

Figure 8. Filtering on the Active Status Group using column A drop-down menu

Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
Authorized					29
Under construction					18
Active					248
Naval Reserve Force, Active					5
In Reserve					14
Leased					7
Loan					2
Stricken					102
Disposed					1,978
Special, Miscellaneous (MSC Chartered and M...					58
Military Sealift Command (MSC), Contract Oper...					33
Military Sealift Command (MSC) Naval Fleet Au...					44
Military Sealift Command (MSC), Special Missio...					17
Military Sealift Command (MSC), in service (Se...					2
Military Sealift Command (MSC), Not in NVR					16
Other NVR					43
Other, Not in NVR					562
Grand Total					3,178

Figure 9. Expanding the entire Status Group field

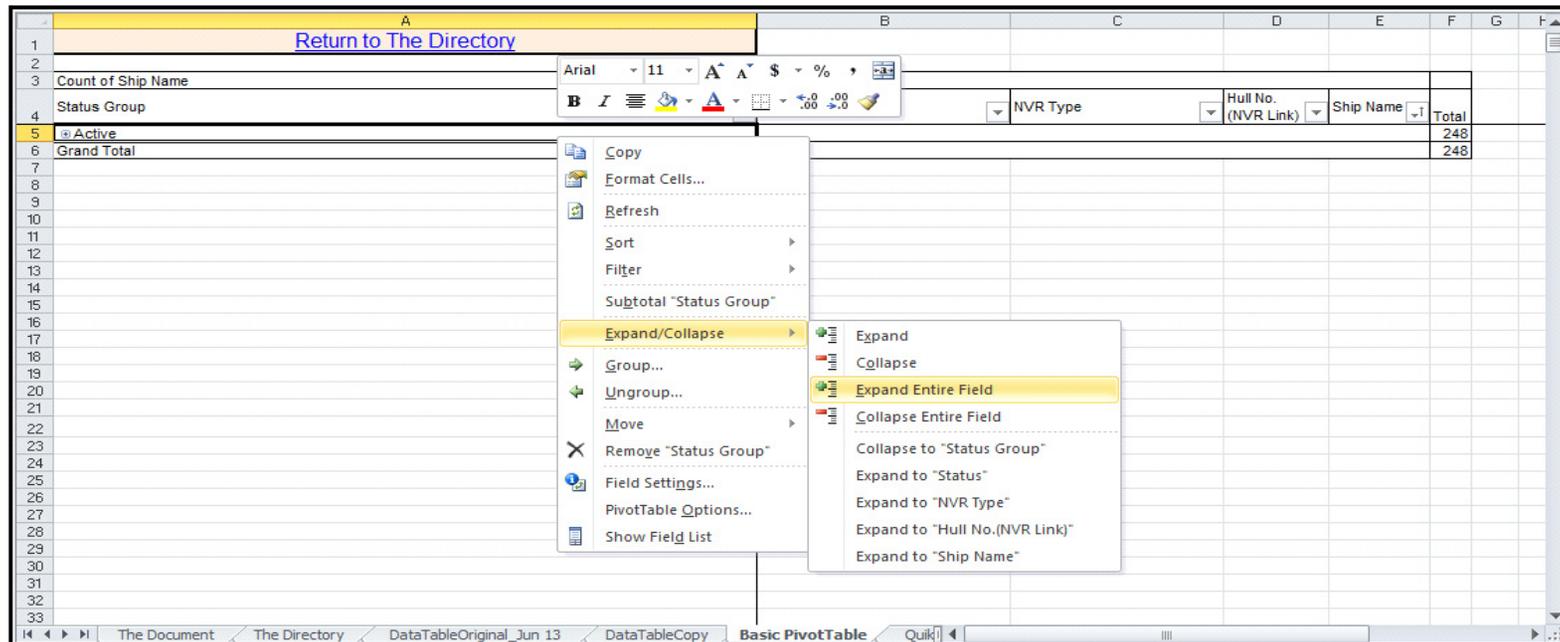


Figure 10. Top portion of fully expanded Basic Pivot Table

Count of Ship Name	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
Active	Active, in commission	AGER Environmental Research Ship	AGER 2	PUEBLO	1
		CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	CVN 68	NIMITZ	1
			CVN 69	DWIGHT D. EISENHOWER	1
			CVN 70	CARL VINSON	1
			CVN 71	THEODORE ROOSEVELT	1
			CVN 72	ABRAHAM LINCOLN	1
			CVN 73	GEORGE WASHINGTON	1
			CVN 74	JOHN C. STENNIS	1
			CVN 75	HARRY S. TRUMAN	1
			CVN 76	RONALD REAGAN	1
			CVN 77	GEORGE H. W. BUSH	1
		CG Guided Missile Cruiser	CG 52	BUNKER HILL	1
			CG 53	MOBILE BAY	1
			CG 54	ANTIETAM	1
			CG 55	LEYTE GULF	1
			CG 56	SAN JACINTO	1
			CG 57	LAKE CHAMPLAIN	1
			CG 58	PHILIPPINE SEA	1
			CG 59	PRINCETON	1
			CG 60	NORMANDY	1
			CG 61	MONTEREY	1
			CG 62	CHANCELLORSVILLE	1
			CG 63	COWPENS	1
		DDG Guided Missile Destroyer	DDG 100	KIDD	1
			DDG 101	GRIDLEY	1
			DDG 102	SAMPSON	1
			DDG 103	TRUXTUN	1
			DDG 104	STERETT	1
			DDG 105	DEWEY	1
			DDG 106	STOCKDALE	1
			DDG 107	GRAVELY	1

## The QuikLook Pivot Tables

The QuikLook Pivot Tables present the compositions and counts of ships according to two different conventions that define Navy, MSC, and NDRF forces.

The first convention is specified in the Secretary of the Navy's Instruction 5030.8A on *General Guidance for the Classification of Naval Vessels and Battleforce Ship Counting* [33].<sup>6</sup> At the highest level, Instruction 5030.8A distinguishes between Battleforce and Non-Battleforce ships.

The second convention is that used by the Naval Vessel Register in its database field named "Force." This convention was formerly used for Navy budgeting, planning, and programming [35]. At the highest level, ships are assigned to either the Ship Battle Forces<sup>7</sup> or to the Local Defense and Miscellaneous Support Forces.

*QuikLook\_5030.8A Battleforce.* Figure 11 shows the composition of the 5030.8A Battleforce by Ship Category, Ship Classification, and Ship Type as defined in this Instruction.

*QuikLook\_NVR Ship Battle Force.* The makeup of the NVR Ship Battle Force is by NVR Force, Status Group, Status, and Ship Type, as shown in figure 12.

*Quiklook 5030.8A Non-Battleforce.* Figure 13 shows the organization of the Non-Battleforce ships according to the 5030.8A instruction in this Pivot Table.

*QuikLook\_NVRLocDef&MiscSptForce.* The composition of the Local Defense and Miscellaneous Support Forces of the NVR convention is displayed in figure 14.

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6. In March 2014, SECNAV INSTRUCTION 5030.8A was superseded by INSTRUCTION 5030.8B [34]. In this document, we retain 5030.8A as the standard since it was in effect during the data period of interest.

7. Over the years, the term, "Battle Force," has been defined differently and has taken different forms (as in the previous paragraph, "Battleforce") in the various ship classification and counting schemes. To emphasize the existence of these differences and hopefully minimize ambiguity, we retain the forms used in the respective source documents cited here.

Figure 11. Composition of the 5030.8A Battleforce by ship classification and ship type as displayed in the *QuikLook\_5030.8A Battleforce* Pivot Table

Count of Ship Name	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No.	Ship Name	Total
10	Combatant Ship	Warship/Aircraft Carrier	Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)			10
22		Warship/Surface Combatant	Cruisers/Guided Missile Cruiser			22
62			Destroyers/Guided Missile Destroyer			62
18			Frigates/Guided Missile Frigate			18
3			Littoral Combat Ship/Littoral Combat Ship			3
55		Warship/Submarine	Attack Submarines/Submarine (nuclear-powered)			55
14			Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)			14
4			Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)			4
1		Warship/Amphibious Warfare	Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)			1
8			Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)			8
9			Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock			9
12			Landing Craft Carriers/Dock Landing Ship			12
4		Other Combatant/Combat Logistics	Underway Replenishment/Fast Combat Support Ship			4
1			Underway Replenishment/Ammunition Ship			1
14			Underway Replenishment/Dry Cargo and Ammunition Ship			14
15			Underway Replenishment/Oiler			15
2		Other Combatant/Fleet Support	Command/Command Ship			2
4			Fleet Ocean Tugs/Fleet Ocean Tugs			4
2			Material Support/Submarine Tender			2
4			Salvage Ships/Salvage Ships			4
5			Surveillance/Surveillance			5
1			Seabasing Support/Afloat Forward Staging Base (Interim)			1
2			Sea Base Connector/Joint High Speed Vessel			2
1			Seabasing Support/Mobile Landing Platform			1
13		Other Combatant/Mine Warfare Type Ships	Mine Countermeasures Ships/Mine Countermeasures Ship			13
286	Grand Total					286

Figure 12. Makeup of the Ship Battle Forces as displayed in the *QuikLook\_NVR Ship Battle Force* Pivot Table

Count of Ship Name	Status Group	Status	NVR Type	Hull No. (NVR)	Ship Name	Total
<b>FOR MYR'S CURRENT PAGE ON SHIP BATTLE FORCES. CLICK HERE</b>						
<input type="checkbox"/> Battle Force	<input type="checkbox"/> Active	<input type="checkbox"/> Active, in commission	<input type="checkbox"/> CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)			10
			<input type="checkbox"/> CG Guided Missile Cruiser			22
			<input type="checkbox"/> DDG Guided Missile Destroyer			62
			<input type="checkbox"/> FFG Guided Missile Frigate			13
			<input type="checkbox"/> LCC Amphibious Command Ship			1
			<input type="checkbox"/> LCS Littoral Combat Ship			3
			<input type="checkbox"/> LHA Amphibious Assault Ship (General)			1
			<input type="checkbox"/> LHD Amphibious Assault Ship (Multi-Purpose)			8
			<input type="checkbox"/> LPD Amphibious Transport Dock			9
			<input type="checkbox"/> LSD Dock Landing Ship			12
			<input type="checkbox"/> MCM Mine Countermeasures Ship			13
			<input type="checkbox"/> SSBN Ballistic Missile Submarine (Nuclear-Powered)			14
			<input type="checkbox"/> SSN Submarine (Nuclear-Powered)			54
			<input type="checkbox"/> SSBN Ballistic Missile Submarine (Nuclear-Powered) / SSGN Guided Missile Submarine (Nuclear-Powered)			4
		<input type="checkbox"/> Active, in service	<input type="checkbox"/> SSN Submarine (Nuclear-Powered)			1
		<input type="checkbox"/> Active, in commission / Military Sealift Command (MSC) {Service Support}	<input type="checkbox"/> LCC Amphibious Command Ship			1
			<input type="checkbox"/> LPD Amphibious Transport Dock / AFSB Afloat Forward Staging Base Interim			1
	<input type="checkbox"/> Military Sealift Command (MSC), in service {Sealift Program}	<input type="checkbox"/> Military Sealift Command (MSC), in service {Sealift Program}	<input type="checkbox"/> JHSV Joint High Speed Vessel			2
	<input type="checkbox"/> Military Sealift Command (MSC) Naval Fleet Auxiliary Force	<input type="checkbox"/> Military Sealift Command (MSC) Naval Fleet Auxiliary Force {Combat Logistics}	<input type="checkbox"/> T-AE Ammunition Ship			1
			<input type="checkbox"/> T-AO Oiler			15
			<input type="checkbox"/> T-AOE Fast Combat Support Ship			4
			<input type="checkbox"/> T-AKE Dry Cargo and Ammunition Ship			12
			<input type="checkbox"/> T-AKE Dry Cargo and Ammunition Ship			2
<input type="checkbox"/> Mobilization Cat. A	<input type="checkbox"/> Naval Reserve Force, Active	<input type="checkbox"/> Naval Reserve Force, Active	<input type="checkbox"/> FFG Guided Missile Frigate			5
<input type="checkbox"/> Support Force	<input type="checkbox"/> Active	<input type="checkbox"/> Active, in commission / Military Sealift Command (MSC) {Service Support}	<input type="checkbox"/> AS Submarine Tender			2
	<input type="checkbox"/> Military Sealift Command (MSC), Special Mission Ships	<input type="checkbox"/> Military Sealift Command (MSC), Special Mission Ships {Special Mission Program}	<input type="checkbox"/> T-AGOS Ocean Surveillance Ship			5
		<input type="checkbox"/> Military Sealift Command (MSC), Special Mission Ships {Service Support Program}	<input type="checkbox"/> MLP Mobile Landing Platform			1
	<input type="checkbox"/> Military Sealift Command (MSC) Naval Fleet Auxiliary Force	<input type="checkbox"/> Military Sealift Command (MSC) Naval Fleet Auxiliary Force {Service Support}	<input type="checkbox"/> T-ARS Salvage Ship			4
<b>Grand Total</b>			<input type="checkbox"/> T-ATF Fleet Ocean Tug			4
						286

Figure 13. 5030.8A Non-Battleforce composition as displayed in the *QuikLook\_5030.8A NonBattleForce* Pivot Table

	A	B	C	D	E	F	G
1	<a href="#">Return to The Directory</a>						
2	Count of Ship Name						
3	5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No.	Ship Name	Total
4	Non-Battleforce	Combatant Craft	Patrol Combatant	Patrol Ships/Patrol Coastal			13
5		Auxiliary Ship	Auxiliary/Support Type Ship	Other Auxiliaries/Cable Repairing Ship			1
6				Other Auxiliaries/Cargo Ship			11
7				Other Auxiliaries/Hospital Ship			2
8				Other Auxiliaries/Missile Range Instrumentation Ship			1
9				Other Auxiliaries/Oceanographic Research Ship			7
10				Other Auxiliaries/Vehicle Cargo Ship			19
11				Other Auxiliaries/Transport Oiler			1
12	Grand Total						55
13							
14							

Figure 14. QuikLook Pivot Table for the Local Defense and Miscellaneous Support Forces of the NVR convention, *QuikLook\_NVRLocDef&MiscSptForce*.

Count of Ship Name	NVR Force	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
	Auxiliary	Active	Active, in commission	PC Patrol Coastal			13
		Military Sealift Command (MSC), Special Mission Ships	Military Sealift Command (MSC), Special Mission Ships {Special Mission Program}	T-AGS Surveying Ship			7
				T-ARC Cable Repairing Ship			1
				T-AGM Missile Range Instrumentation Ship			1
	Strategic Sealift	Special, Miscellaneous	Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. {Prepositioning Program}	AK Cargo Ship			3
			Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. {Sealift Program}	AG Miscellaneous			1
			Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. / Former MSC	AK Cargo Ship			1
			Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. {Prepositioning Program}	AK Cargo Ship			3
			Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. {Sealift Program}	AVB Aviation Logistic Support Ship			2
			Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. {Sealift Program}	ACS Auxiliary Crane Ship			6
				AK Cargo Ship			2
				AKR Vehicle Cargo Ship			37
				ADT Transport Oiler			1
			Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. / Former MSC	AK Cargo Ship			1
		Military Sealift Command (MSC), Contract Operated	Military Sealift Command (MSC), in service, contract operated {Prepositioning Program}	T-AK Cargo Ship			6
			Military Sealift Command (MSC), in service, contract operated {Sealift Program}	T-AKR Vehicle Cargo Ship			10
				T-AK Cargo Ship			5
				T-AKR Vehicle Cargo Ship			9
				T-AOT Transport Oiler			1
		Disposed	Disposed of by Navy title transfer to the Maritime Administration	ADT Transport Oiler			3
		Military Sealift Command (MSC) Naval Fleet Auxiliary Force	Military Sealift Command (MSC) Naval Fleet Auxiliary Force {Service Support Program}	T-AH Hospital Ship			2
Grand Total							115

### **ShipAge Pivot Table**

The final pivot table in the data file is named *ShipAge Pivot Table*. You can see the opening view of the table in figure 15. This table presents the age-of-ship data for Battleforce ships, organized using the 5030.8A ship-type groups. The ages displayed in the table are either: (1) the ages computed as of the date when the database was finalized, or (2) the ages as of the last “Refresh” of the Pivot Table.

To refresh the ship age calculation, you can right-click anywhere on the table and select “Refresh.” Or you can go to the Data tab in the menu bar and use the “Refresh All” button. Refreshing the age calculations will not account for decommissionings that may have occurred since the end of the second quarter of CY 2013.

The pivot table shows the number of ships within each group, the average age of ships in the group, the age of the oldest ship, and the age of the newest ship delivered.

Figure 15. View of the Ship-Age Pivot Table

A		B		C		D		E	F	G	H
1	<a href="#">Return to The Directory</a>										
2											
3	Count of Ship Name										
4	NVR Force	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total				
5	⊖ Auxiliary	⊖ Active	⊖ Active, in commission	⊖ PC Patrol Coastal			13				
6		⊖ Military Sealift Command (MSC), Special Mission Ships	⊖ Military Sealift Command (MSC), Special Mission Ships (Special Mission Program)	⊖ T-AGS Surveying Ship			7				
7				⊖ T-ARC Cable Repairing Ship			1				
8				⊖ T-AGM Missile Range Instrumentation Ship			1				
9	⊖ Strategic Sealift	⊖ Special, Miscellaneous	⊖ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. (Prepositioning Program)	⊖ AK Cargo Ship			3				
10			⊖ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. (Sealift Program)	⊖ AG Miscellaneous			1				
11			⊖ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. / Former MSC	⊖ AK Cargo Ship			1				
12			⊖ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. / Former MSC	⊖ AK Cargo Ship			3				
13			⊖ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. (Prepositioning Program)	⊖ AVB Aviation Logistic Support Ship			2				
14			⊖ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. (Sealift Program)	⊖ ACS Auxiliary Crane Ship			6				
15				⊖ AK Cargo Ship			2				
16				⊖ AKR Vehicle Cargo Ship			37				
17				⊖ ADT Transport Oiler			1				
18			⊖ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. / Former MSC	⊖ AK Cargo Ship			1				
19		⊖ Military Sealift Command (MSC), Contract Operated	⊖ Military Sealift Command (MSC), in service, contract operated (Prepositioning Program)	⊖ T-AK Cargo Ship			6				
20			⊖ Military Sealift Command (MSC), in service, contract operated (Sealift Program)	⊖ T-AKR Vehicle Cargo Ship			10				
21				⊖ T-AK Cargo Ship			5				
22				⊖ T-AKR Vehicle Cargo Ship			9				
23				⊖ T-ADT Transport Oiler			1				
24		⊖ Disposed	⊖ Disposed of by Navy title transfer to the Maritime Administration	⊖ ADT Transport Oiler			3				
25		⊖ Military Sealift Command (MSC) Naval Fleet Auxiliary Force	⊖ Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program)	⊖ T-AH Hospital Ship			2				
26	Grand Total						115				
27											
28											
29											
30											
31											

# Changes in database content for this quarter

## Routine update of source data

We modified the database to account for the changes in our three major data sources through the quarter. As mentioned earlier, our sources include: (1) the NVR [36], (2) MSC's Ship Inventory [37], and (3) MARAD's NDRF Inventory [38].

We obtained the data from NVR by email [39], from MSC's Ship Inventory "Show changes" web site [40], and from MARAD's monthly reports on the NDRF Inventory [41–43].

## Changes in the ship forces

### SECNAVINST 5030.8A Battleforce increases to 286 ships

During the second quarter of 2013, the number of ships in the Battleforce as defined in SECNAVINST 5030.8A increased from 283 to 286 ships because three ships were delivered:

- USNS *Montford Point* (T-MLP 1) on May 14
- PCU *Minnesota* (SSN 779) on June 6
- USNS *Choctaw County* (T-JHSV 2) on June 6

Figure 11 shows the composition of the Battleforce at the end of the quarter by the classification scheme in the 5030.8A Instruction.

We verified the count and the changes against the Navy Operations Center's "OPNOTES/Worldwide Navy Distribution" and "CNO's Current Ops Brief" products [44], and the Ship Management Information System (iSMIS) Manager's report of the Total Battleforce Count [45].

### **NVR Ship Battle Forces at 286 ships**

The composition of the Ship Battle Forces according to NVR's ship classification system as presented in ISDB's *Quiklook\_NVR Ship Battle Force* Pivot Table is shown in figure 12. The ships included here are the same as in the 5030.8A Battleforce. But the two ship classification schemes are different. A comparison of the two systems can be found in the documentation accompanying the December 2011 ISDB update [25].

### **SECNAVINST 5030.8A Non-Battleforce ship count at 55**

During the second quarter the Navy's Non-Battleforce fleet was unchanged. The makeup of the force from our *QuikLook\_5030.8A\_NonBattleForce* Pivot Table is shown in figure 13. Our data are consistent with the Navy Ship Annual Supplemental Data Tables (SASDT) of June 2012 [46] and July 2013 [47].

### **NVR Local Defense and Miscellaneous Support Forces at 115 ships**

According to the NVR's classification scheme, ships not in the Ship Battle Forces may fall into its Local Defense and Miscellaneous Support Forces organization. The ships in these forces include the ships in the 5030.8A Non-Battleforce. They also include ships in the Ready Reserve Force, reported in MARAD's National Defense Reserve Fleet Inventory reports. Figure 14 shows the makeup of these forces from our *Quiklook\_NVRLocDef&MiscSptForce* Pivot Table.

# Glossary

DANFS	Dictionary of American Naval Fighting Ships
ISDB	Integrated Ship Database
iSMIS	iSMIS Ship Management Information System
MARAD	Maritime Administration
MSC	Military Sealift Command
NASSCO	National Steel and Shipbuilding Company
NAVSEA	Naval Sea Systems Command
NAVSHIPSO	NAVSEA Shipbuilding Support Office
NDRF	National Defense Reserve Fleet
NHHC	Naval History and Heritage Command
NVR	Naval Vessel Register
OOA	Out of action
PCU	Pre-Commissioning Unit
PMARS	Property Management and Archive Record System
RRF	Ready Reserve Force
SASDT	Ship Annual Supplemental Data Table Ship and Aircraft Supplemental Data Table
SECNAVINST	Secretary of the Navy Instruction

UIC	Unit Identification Code
USNS	United States Naval Ship
USS	United States Ship

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