CNA's Integrated Ship Database

Third Quarter CY 2013 Update

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ANALYSIS & SOLUTIONS

Photo Credit
Cover photo courtesy of "NavSource Naval History: Photographic History of the U.S. Navy," last accessed Jan. 6, 2014, at http://www.navsource.org/archives.

In preparation for Hurricane Rita, mine countermeasures ships homeported at Naval Station Ingleside nest in a modified mooring. Left to right: unknown, *Scout* (MCM 8), *Sentry* (MCM 3), unknown, *Champion* (MCM 4), *Pioneer* (MCM 9), *Chief* (MCM 14), *Gladiator* (MCM 11), *Avenger* (MCM 1) and *Defender* (MCM 2). U.S. Navy photo 050923-N-4913K-006 by Fifi Kieschnick, http://www.navsource.org/archives/11/11120812.jpg.

Approved for distribution: October 2014

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Contents

Introduction 1
Background. 1
Outline of this document 1

ISDB overview 3
Accessing the database 3
Organization of the ISDB file 7
The Document tab 7
The Directory tab 7
DataTableOriginal 7
DataTableCopy 13
The Pivot Tables 13

Changes in database content for this quarter 25
Routine update of source data 25
Changes in the ship forces 25

Glossary 27

References 29

List of figures 37

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Introduction

Background

In this CNA Interactive Software document, we present the update of our Integrated Ship Database (ISDB) for the third 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,[1] from other CNA research scientists and analysts, and from others in government as well.

Since our initial version in 2005 [1], we have published 30 quarterly updates [2–31]. All are available online on the Integrated Ship Database page of CNA's website, 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 [32].

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 July 1 and September 30, 2013.

Finally, we present ship counts and inventory summaries as of September 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). The specific address for the main page for the database is http://www.cna.org/centers/operations-tactics/ship-database [33]. Figure 1 illustrates the main page.[2]

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.

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

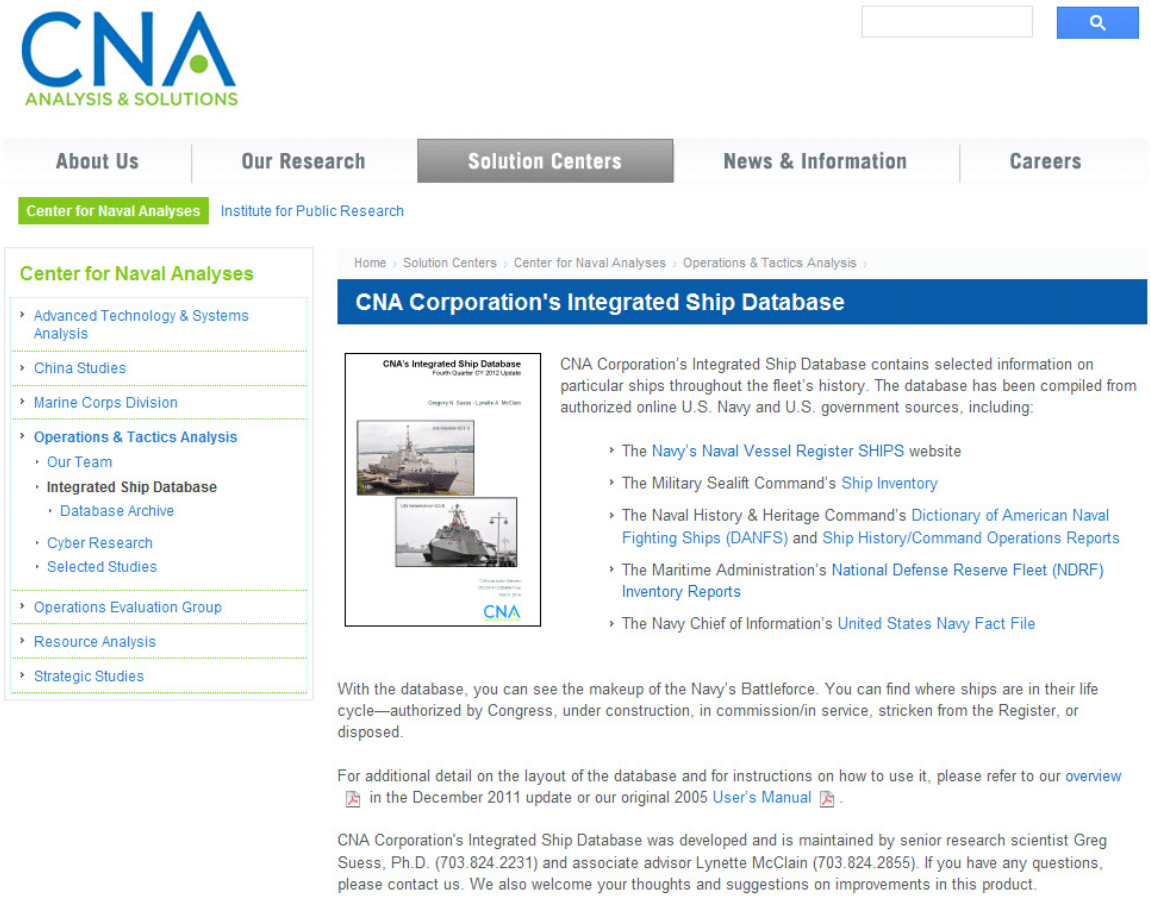


Figure 2. Lower section of the main database page

2013

September 2013

- ISDB2013-09.xlsm

June 2013

- ISDB2013-06.xlsm

March 2013

- ISDB2013-03.xlsm

2012

December 2012

- ISDB2012-12.xlsm

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

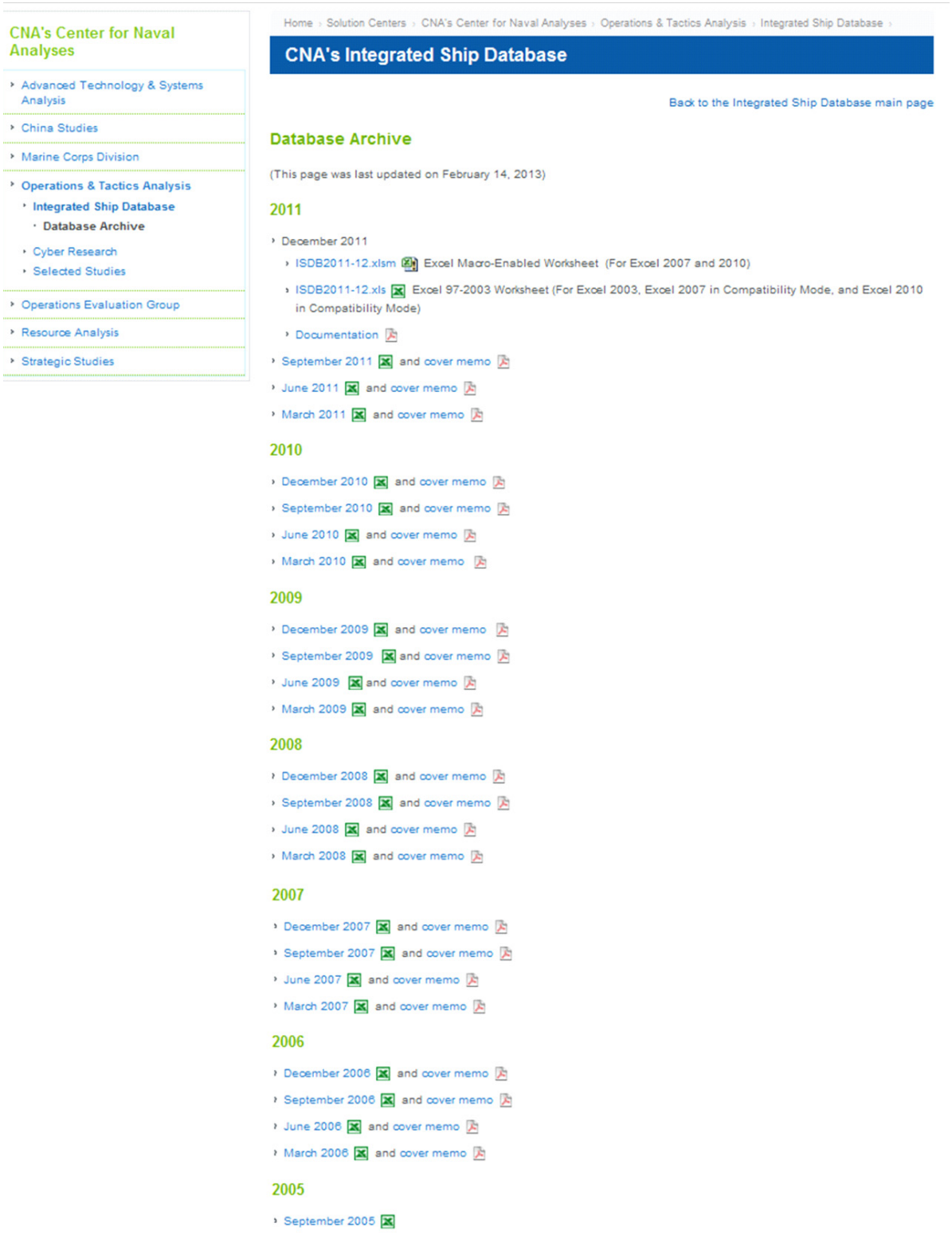
- Click here to view database updates from 2005 to 2011

(This page was last updated on January 14, 2014)

Data Sources

- **Naval Vessel Register**
  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



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

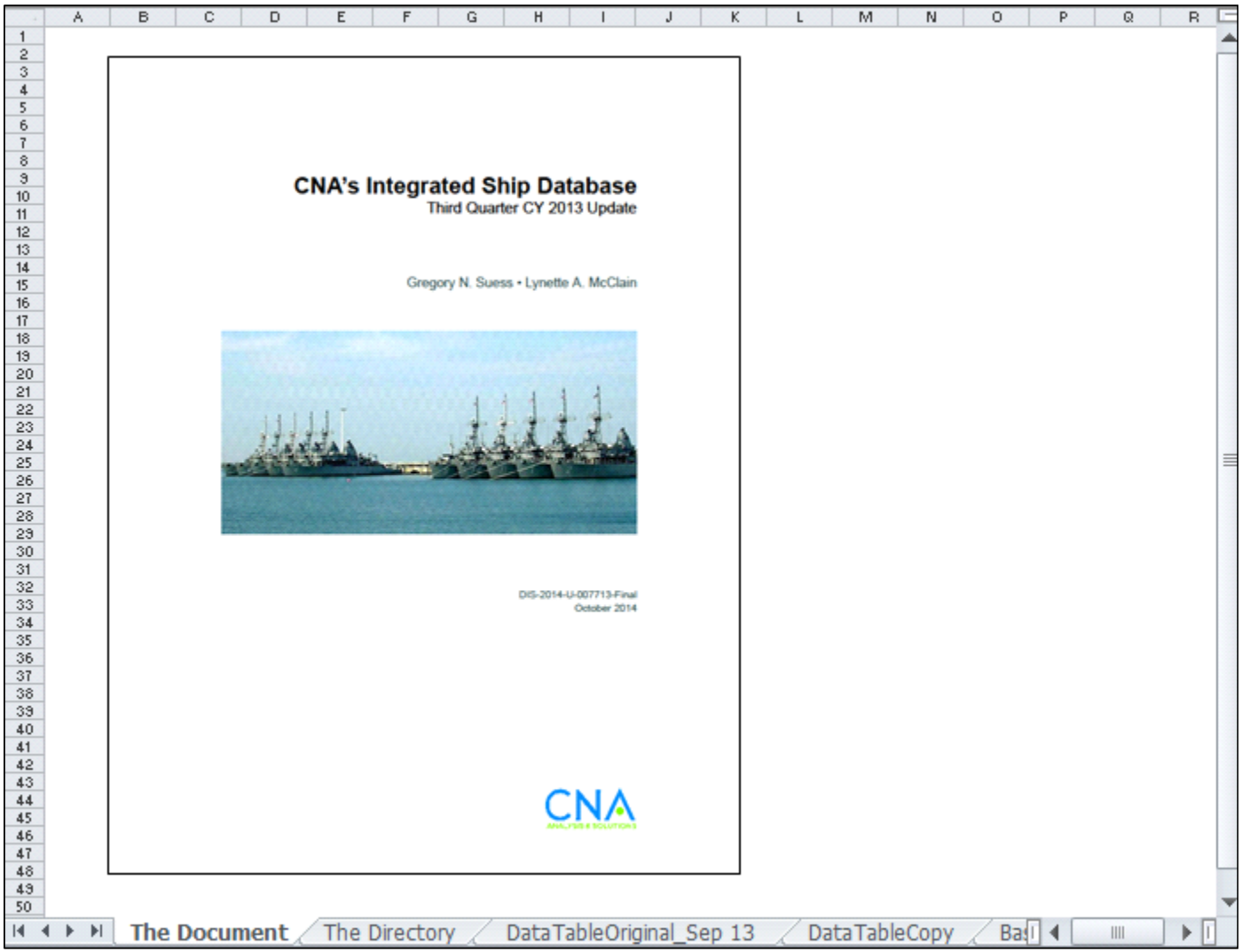
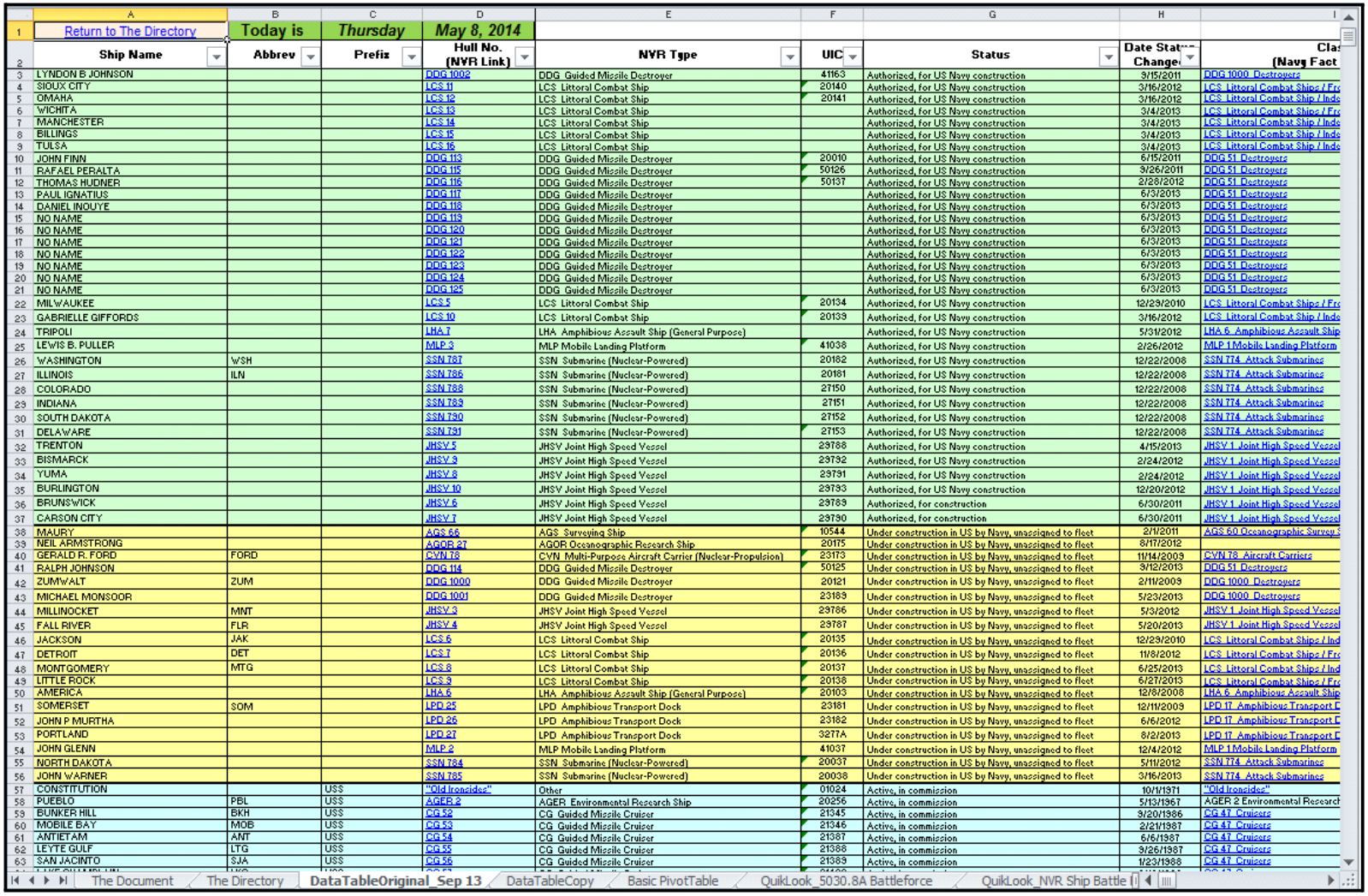


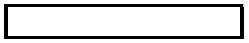
Figure 5. The Directory tab

Figure 6. DataTableOriginal



	A	B	C	D	E	F	G	H	I
1	Return to The Directory	Today is	Thursday	May 8, 2014					
2	Ship Name	Abbrev	Prefix	Hull No. (NVR Link)	NVR Type	UIC	Status	Date Status Change	Class (Navy Fact
3	LYNDON B JOHNSON			DDG 1002	DDG Guided Missile Destroyer	41163	Authorized, for US Navy construction	3/15/2011	DDG 1000 Destroyers
4	SIOUX CITY			LCS 11	LCS Littoral Combat Ship	20140	Authorized, for US Navy construction	3/16/2012	LCS Littoral Combat Ships / Fr
5	OMAHA			LCS 12	LCS Littoral Combat Ship	20141	Authorized, for US Navy construction	3/16/2012	LCS Littoral Combat Ship / Inde
6	WICHITA			LCS 13	LCS Littoral Combat Ship		Authorized, for US Navy construction	3/4/2013	LCS Littoral Combat Ships / Fr
7	MANCHESTER			LCS 14	LCS Littoral Combat Ship		Authorized, for US Navy construction	3/4/2013	LCS Littoral Combat Ship / Inde
8	BILLINGS			LCS 15	LCS Littoral Combat Ship		Authorized, for US Navy construction	3/4/2013	LCS Littoral Combat Ship / Inde
9	TULSA			LCS 16	LCS Littoral Combat Ship		Authorized, for US Navy construction	3/4/2013	LCS Littoral Combat Ship / Inde
10	JOHN FINN			DDG 113	DDG Guided Missile Destroyer	20010	Authorized, for US Navy construction	6/15/2011	DDG 51 Destroyers
11	RAFAEL PERALTA			DDG 115	DDG Guided Missile Destroyer	50126	Authorized, for US Navy construction	3/26/2011	DDG 51 Destroyers
12	THOMAS HUDNER			DDG 116	DDG Guided Missile Destroyer	50137	Authorized, for US Navy construction	2/28/2012	DDG 51 Destroyers
13	PAUL IGNATIUS			DDG 117	DDG Guided Missile Destroyer		Authorized, for US Navy construction	6/3/2013	DDG 51 Destroyers
14	DANIEL INOUYE			DDG 118	DDG Guided Missile Destroyer		Authorized, for US Navy construction	6/3/2013	DDG 51 Destroyers
15	NO NAME			DDG 119	DDG Guided Missile Destroyer		Authorized, for US Navy construction	6/3/2013	DDG 51 Destroyers
16	NO NAME			DDG 120	DDG Guided Missile Destroyer		Authorized, for US Navy construction	6/3/2013	DDG 51 Destroyers
17	NO NAME			DDG 121	DDG Guided Missile Destroyer		Authorized, for US Navy construction	6/3/2013	DDG 51 Destroyers
18	NO NAME			DDG 122	DDG Guided Missile Destroyer		Authorized, for US Navy construction	6/3/2013	DDG 51 Destroyers
19	NO NAME			DDG 123	DDG Guided Missile Destroyer		Authorized, for US Navy construction	6/3/2013	DDG 51 Destroyers
20	NO NAME			DDG 124	DDG Guided Missile Destroyer		Authorized, for US Navy construction	6/3/2013	DDG 51 Destroyers
21	NO NAME			DDG 125	DDG Guided Missile Destroyer		Authorized, for US Navy construction	6/3/2013	DDG 51 Destroyers
22	MILWAUKEE			LCS 5	LCS Littoral Combat Ship	20134	Authorized, for US Navy construction	12/29/2010	LCS Littoral Combat Ships / Fr
23	GABRIELLE GIFFORDS			LCS 10	LCS Littoral Combat Ship	20139	Authorized, for US Navy construction	3/16/2012	LCS Littoral Combat Ship / Inde
24	TRIPOLI			LHA 7	LHA Amphibious Assault Ship (General Purpose)		Authorized, for US Navy construction	5/31/2012	LHA 6 Amphibious Assault Ship
25	LEWIS B. PULLER			MLP 3	MLP Mobile Landing Platform	41038	Authorized, for US Navy construction	2/26/2012	MLP 1 Mobile Landing Platform
26	WASHINGTON	WSH		SSN 787	SSN Submarine (Nuclear-Powered)	20182	Authorized, for US Navy construction	12/22/2008	SSN 774 Attack Submarines
27	ILLINOIS	ILN		SSN 786	SSN Submarine (Nuclear-Powered)	20181	Authorized, for US Navy construction	12/22/2008	SSN 774 Attack Submarines
28	COLORADO			SSN 788	SSN Submarine (Nuclear-Powered)	27150	Authorized, for US Navy construction	12/22/2008	SSN 774 Attack Submarines
29	INDIANA			SSN 789	SSN Submarine (Nuclear-Powered)	27151	Authorized, for US Navy construction	12/22/2008	SSN 774 Attack Submarines
30	SOUTH DAKOTA			SSN 790	SSN Submarine (Nuclear-Powered)	27152	Authorized, for US Navy construction	12/22/2008	SSN 774 Attack Submarines
31	DELAWARE			SSN 791	SSN Submarine (Nuclear-Powered)	27153	Authorized, for US Navy construction	12/22/2008	SSN 774 Attack Submarines
32	TRENTON			JHSV 5	JHSV Joint High Speed Vessel	23788	Authorized, for US Navy construction	4/15/2013	JHSV 1 Joint High Speed Vessel
33	BISMARCK			JHSV 9	JHSV Joint High Speed Vessel	23732	Authorized, for US Navy construction	2/24/2012	JHSV 1 Joint High Speed Vessel
34	YUMA			JHSV 8	JHSV Joint High Speed Vessel	23731	Authorized, for US Navy construction	2/24/2012	JHSV 1 Joint High Speed Vessel
35	BURLINGTON			JHSV 10	JHSV Joint High Speed Vessel	23733	Authorized, for US Navy construction	12/20/2012	JHSV 1 Joint High Speed Vessel
36	BRUNSWICK			JHSV 6	JHSV Joint High Speed Vessel	23783	Authorized, for construction	6/30/2011	JHSV 1 Joint High Speed Vessel
37	CARSON CITY			JHSV 7	JHSV Joint High Speed Vessel	23730	Authorized, for construction	6/30/2011	JHSV 1 Joint High Speed Vessel
38	MAURY			AGS 66	AGS Surveying Ship	10544	Under construction in US by Navy, unassigned to fleet	2/1/2011	AGS 60 Oceanographic Survey S
39	NEIL ARMSTRONG			AGOR 27	AGOR Oceanographic Research Ship	20175	Under construction in US by Navy, unassigned to fleet	8/17/2012	
40	GERALD R. FORD	FORD		CVN 78	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	23173	Under construction in US by Navy, unassigned to fleet	11/14/2009	CVN 78 Aircraft Carriers
41	RALPH JOHNSON			DDG 114	DDG Guided Missile Destroyer	50125	Under construction in US by Navy, unassigned to fleet	3/12/2013	DDG 51 Destroyers
42	ZUMWALT	ZUM		DDG 1000	DDG Guided Missile Destroyer	20121	Under construction in US by Navy, unassigned to fleet	2/11/2009	DDG 1000 Destroyers
43	MICHAEL MONSOOR			DDG 1001	DDG Guided Missile Destroyer	23189	Under construction in US by Navy, unassigned to fleet	5/23/2013	DDG 1000 Destroyers
44	MILLINOCKET	MNT		JHSV 3	JHSV Joint High Speed Vessel	23786	Under construction in US by Navy, unassigned to fleet	5/3/2012	JHSV 1 Joint High Speed Vessel
45	FALL RIVER	FLR		JHSV 4	JHSV Joint High Speed Vessel	23787	Under construction in US by Navy, unassigned to fleet	5/20/2013	JHSV 1 Joint High Speed Vessel
46	JACKSON	JAK		LCS 6	LCS Littoral Combat Ship	20135	Under construction in US by Navy, unassigned to fleet	12/29/2010	LCS Littoral Combat Ships / Ind
47	DETROIT	DET		LCS 7	LCS Littoral Combat Ship	20136	Under construction in US by Navy, unassigned to fleet	11/8/2012	LCS Littoral Combat Ships / Fr
48	MONTGOMERY	MTG		LCS 8	LCS Littoral Combat Ship	20137	Under construction in US by Navy, unassigned to fleet	6/25/2013	LCS Littoral Combat Ships / Ind
49	LITTLE ROCK			LCS 9	LCS Littoral Combat Ship	20138	Under construction in US by Navy, unassigned to fleet	6/27/2013	LCS Littoral Combat Ships / Fr
50	AMERICA			LHA 6	LHA Amphibious Assault Ship (General Purpose)	20103	Under construction in US by Navy, unassigned to fleet	12/8/2008	LHA 6 Amphibious Assault Ship
51	SOMERSET	SOM		LPD 25	LPD Amphibious Transport Dock	23181	Under construction in US by Navy, unassigned to fleet	12/11/2009	LPD 17 Amphibious Transport D
52	JOHN P MURTHA			LPD 26	LPD Amphibious Transport Dock	23182	Under construction in US by Navy, unassigned to fleet	6/6/2012	LPD 17 Amphibious Transport D
53	PORTLAND			LPD 27	LPD Amphibious Transport Dock	3277A	Under construction in US by Navy, unassigned to fleet	8/2/2013	LPD 17 Amphibious Transport D
54	JOHN GLENN			MLP 2	MLP Mobile Landing Platform	41037	Under construction in US by Navy, unassigned to fleet	12/4/2012	MLP 1 Mobile Landing Platform
55	NORTH DAKOTA			SSN 784	SSN Submarine (Nuclear-Powered)	20037	Under construction in US by Navy, unassigned to fleet	5/11/2012	SSN 774 Attack Submarines
56	JOHN WARNER			SSN 785	SSN Submarine (Nuclear-Powered)	20038	Under construction in US by Navy, unassigned to fleet	3/16/2013	SSN 774 Attack Submarines
57	CONSTITUTION		USS	"Old Ironsides"	Other	01024	Active, in commission	10/1/1971	"Old Ironsides"
58	PUEBLO	PBL	USS	AGER 2	AGER Environmental Research Ship	20256	Active, in commission	5/13/1967	AGER 2 Environmental Research
59	BUNKER HILL	BKH	USS	CG 52	CG Guided Missile Cruiser	21345	Active, in commission	3/20/1986	CG 47 Cruisers
60	MOBILE BAY	MOB	USS	CG 53	CG Guided Missile Cruiser	21346	Active, in commission	2/21/1987	CG 47 Cruisers
61	ANTIETAM	ANT	USS	CG 54	CG Guided Missile Cruiser	21387	Active, in commission	6/6/1987	CG 47 Cruisers
62	LEYTE GULF	LTG	USS	CG 55	CG Guided Missile Cruiser	21388	Active, in commission	9/26/1987	CG 47 Cruisers
63	SAN JACINTO	SJA	USS	CG 56	CG Guided Missile Cruiser	21389	Active, in commission	1/23/1988	CG 47 Cruisers

The Document | The Directory | DataTableOriginal_Sep 13 | DataTableCopy | Basic PivotTable | QuikLook_5030.8A Battleforce | QuikLook_NVR Ship Battle

- Donated as museum, memorial
- Disposed
- Lost, sunk
- Military Sealift Command
- MARAD/NDRF
- Hull number assigned, not built
- Reclassed
- No NVR status
- Historical from PMARS,[3] DANFS,[4] 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

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 September 2013
- Previous, Other Names
- Award Date
- Keel Date
- Launch Date
- Delivery Date
- Commission Date
- Age of the ship[5]
- Decommission/Out Of Action (OOA) Date
- Inactivation Date
- Stricken Date
- Date last updated
- Additional Comments, References

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 sheet.

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

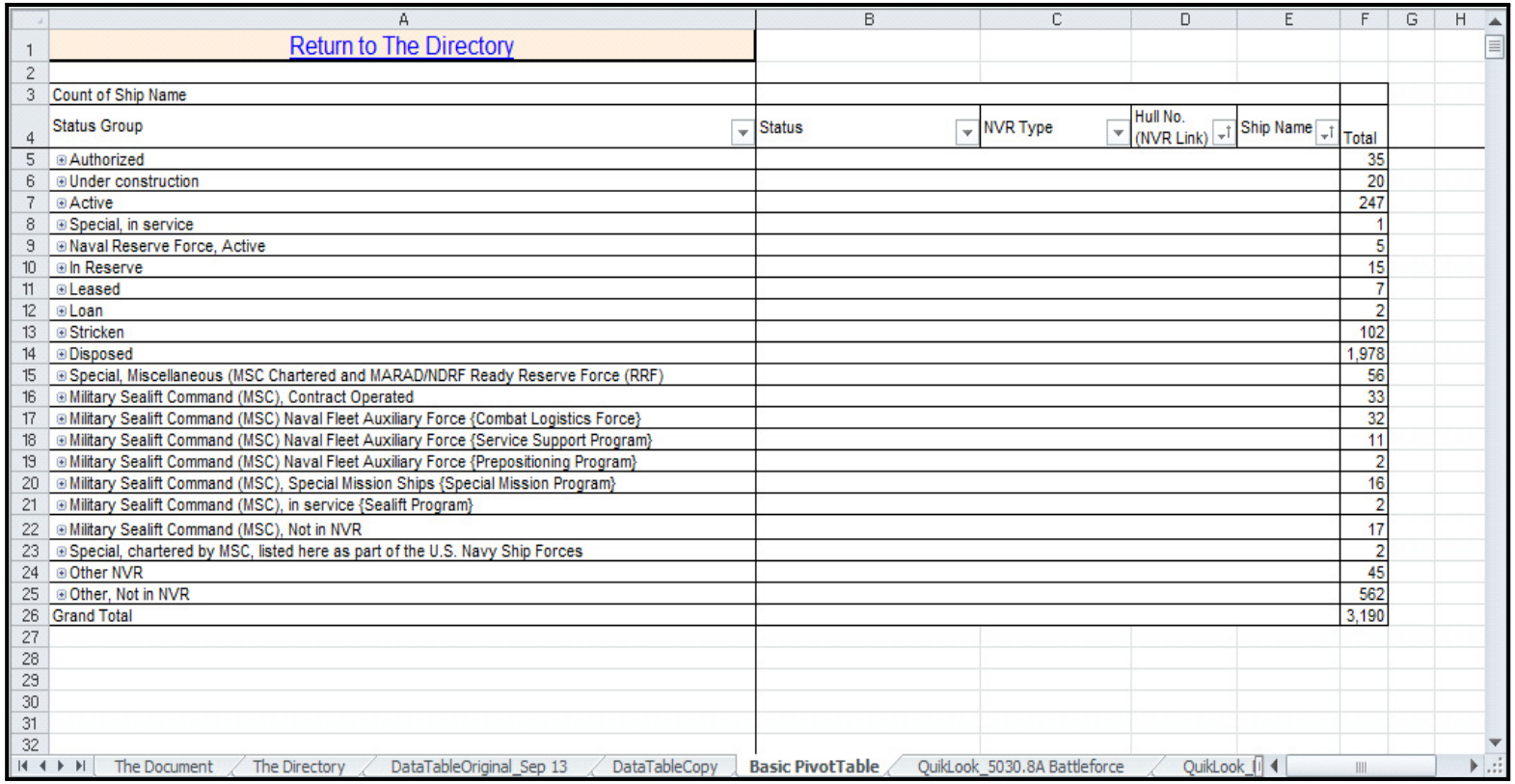
As shown in figure 7, the Basic Pivot Table presents a view of the makeup of the entire ISDB. There, you can see the distribution of the 3,190 ship records by Ship Status Group.

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



	A	B	C	D	E	F	G	H
1	Return to The Directory							
2								
3	Count of Ship Name							
4	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total		
5	Authorized					35		
6	Under construction					20		
7	Active					247		
8	Special, in service					1		
9	Naval Reserve Force, Active					5		
10	In Reserve					15		
11	Leased					7		
12	Loan					2		
13	Stricken					102		
14	Disposed					1,978		
15	Special, Miscellaneous (MSC Chartered and MARAD/NDRF Ready Reserve Force (RRF)					56		
16	Military Sealift Command (MSC), Contract Operated					33		
17	Military Sealift Command (MSC) Naval Fleet Auxiliary Force {Combat Logistics Force}					32		
18	Military Sealift Command (MSC) Naval Fleet Auxiliary Force {Service Support Program}					11		
19	Military Sealift Command (MSC) Naval Fleet Auxiliary Force {Prepositioning Program}					2		
20	Military Sealift Command (MSC), Special Mission Ships {Special Mission Program}					16		
21	Military Sealift Command (MSC), in service {Sealift Program}					2		
22	Military Sealift Command (MSC), Not in NVR					17		
23	Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces					2		
24	Other NVR					45		
25	Other, Not in NVR					562		
26	Grand Total					3,190		
27								
28								
29								
30								
31								
32								

The Document | The Directory | DataTableOriginal_Sep 13 | DataTableCopy | **Basic PivotTable** | QuikLook_5030.8A Battleforce | QuikLook_(

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

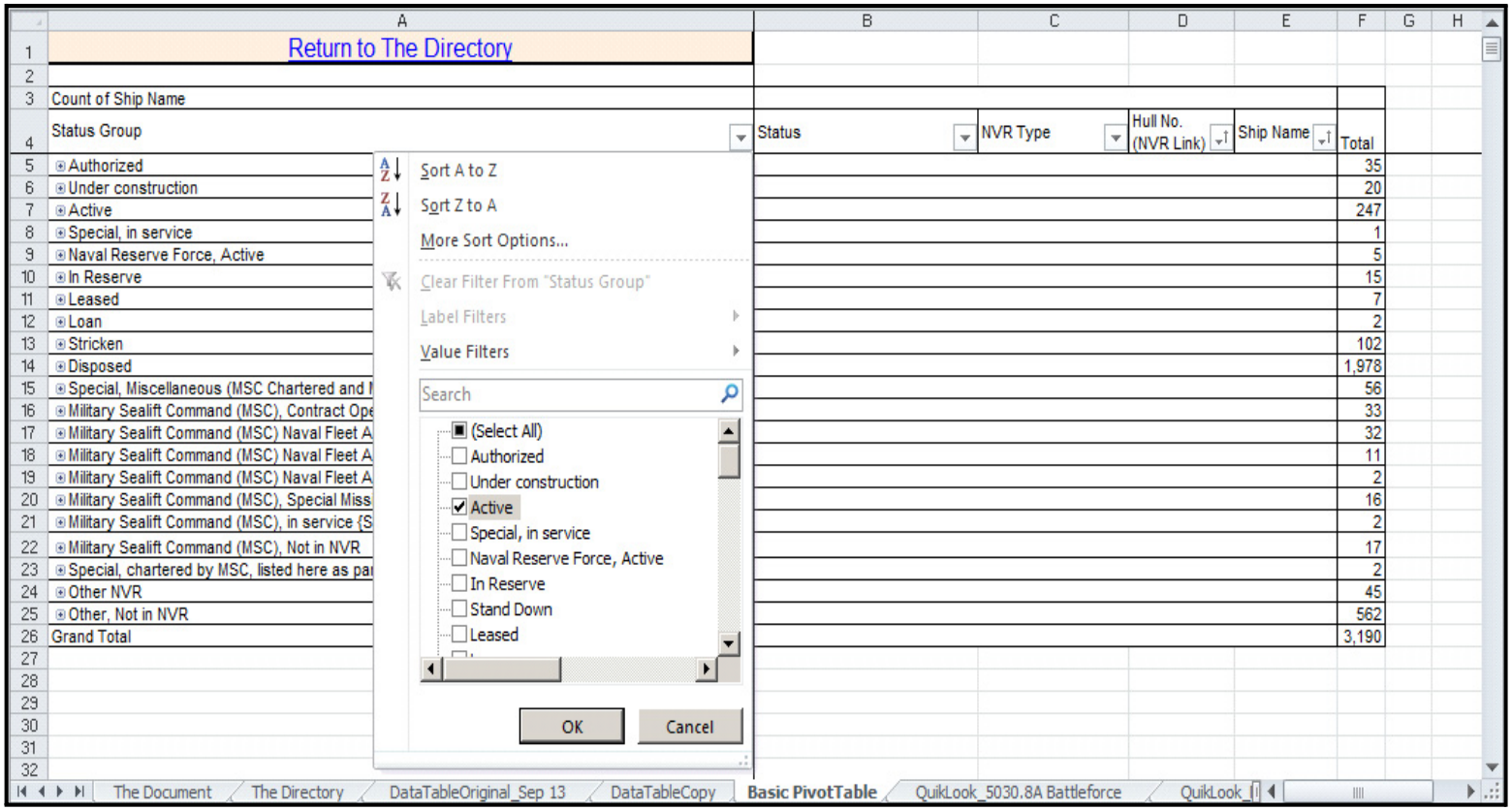


Figure 9. Expanding the entire Status Group field

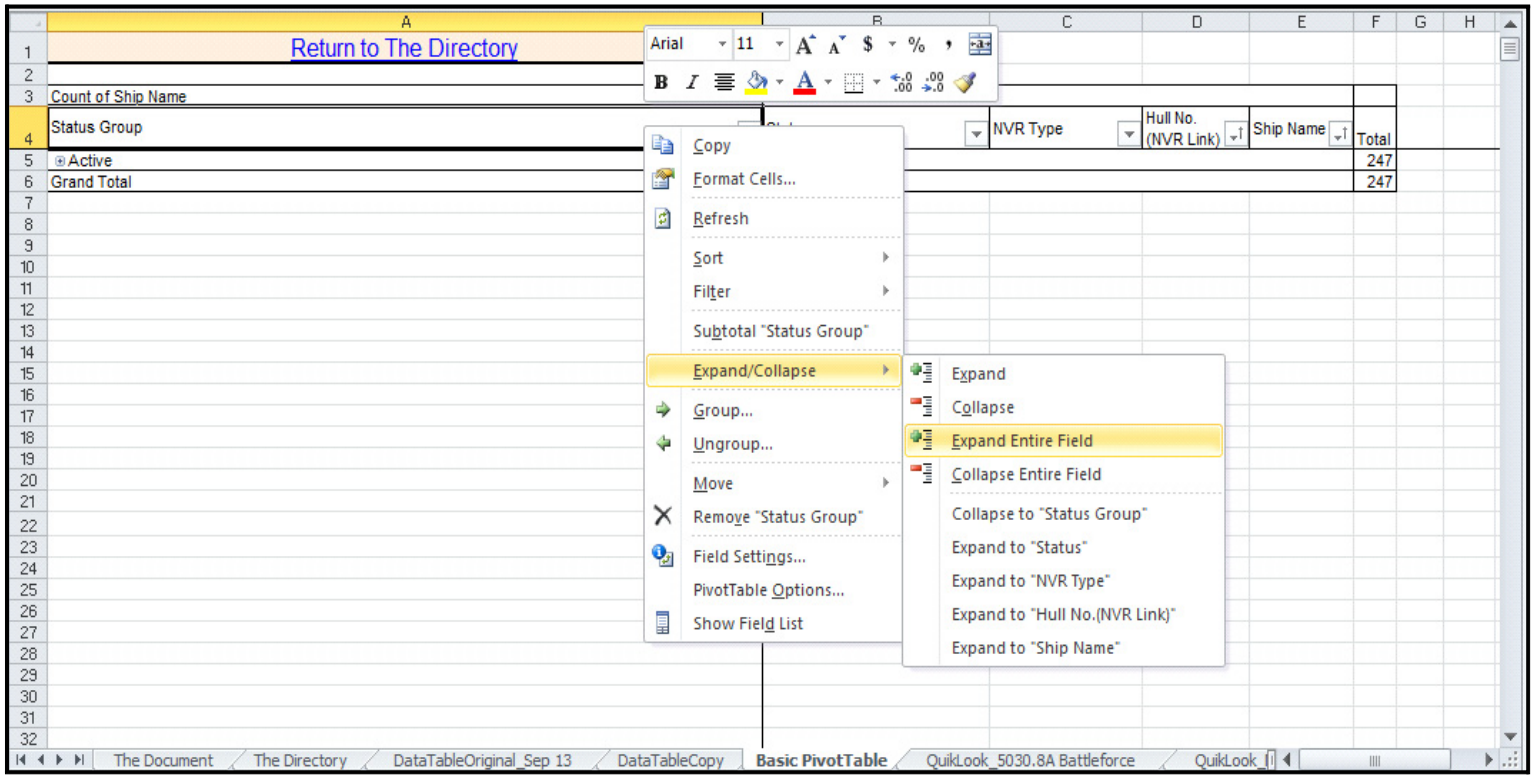
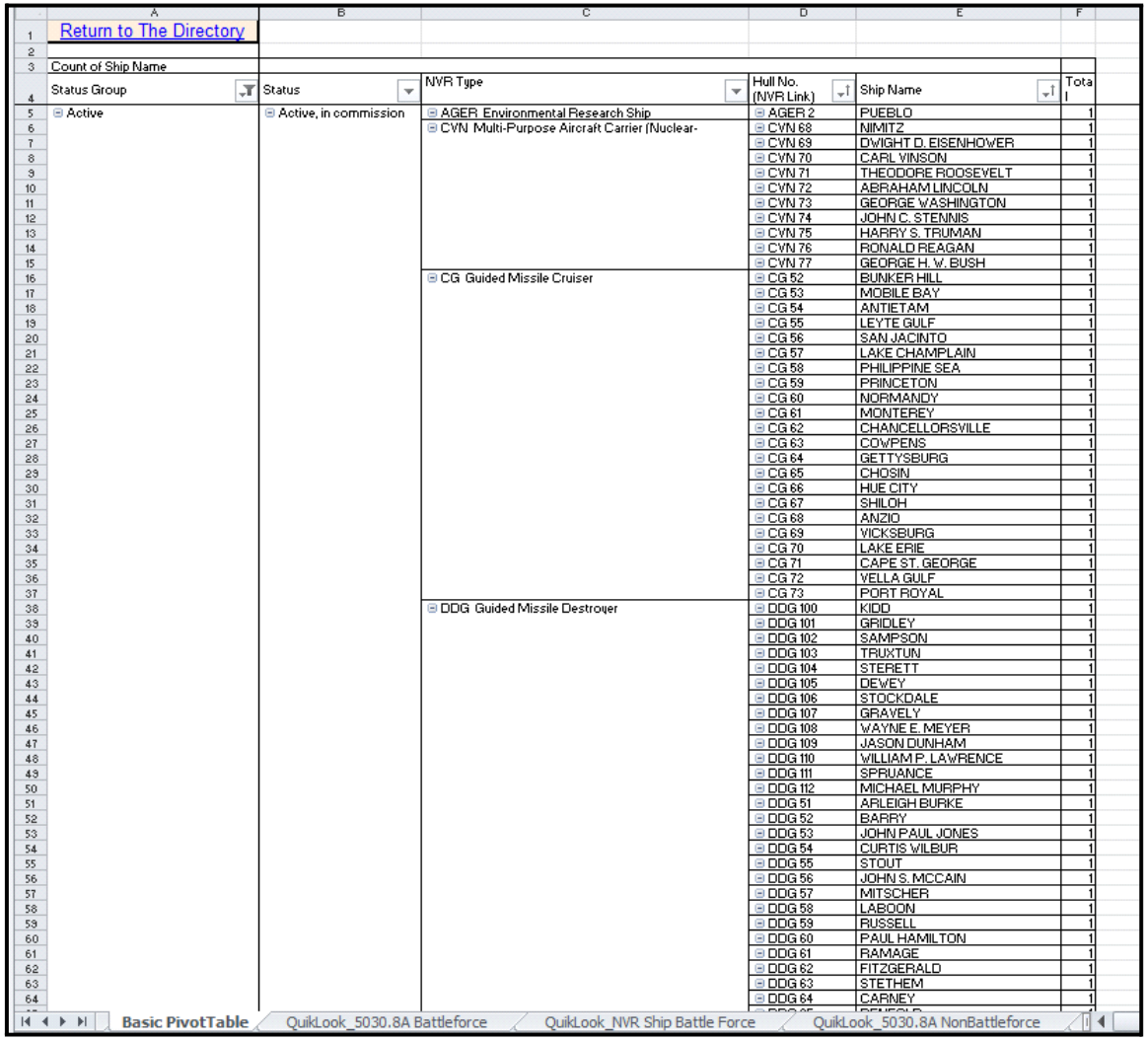


Figure 10. Top portion of fully expanded Basic Pivot Table



	A	B	C	D	E	F
1	Return to The Directory					
2						
3	Count of Ship Name					
4	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
5	Active	Active, in commission	AGER Environmental Research Ship	AGER 2	PUEBLO	1
6			CVN Multi-Purpose Aircraft Carrier (Nuclear-	CVN 68	NIMITZ	1
7				CVN 69	DWIGHT D. EISENHOWER	1
8				CVN 70	CARL VINSON	1
9				CVN 71	THEODORE ROOSEVELT	1
10				CVN 72	ABRAHAM LINCOLN	1
11				CVN 73	GEORGE WASHINGTON	1
12				CVN 74	JOHN C. STENNIS	1
13				CVN 75	HARRY S. TRUMAN	1
14				CVN 76	RONALD REAGAN	1
15				CVN 77	GEORGE H. W. BUSH	1
16			CG Guided Missile Cruiser	CG 52	BUNKER HILL	1
17				CG 53	MOBILE BAY	1
18				CG 54	ANTIETAM	1
19				CG 55	LEYTE GULF	1
20				CG 56	SAN JACINTO	1
21				CG 57	LAKE CHAMPLAIN	1
22				CG 58	PHILIPPINE SEA	1
23				CG 59	PRINCETON	1
24				CG 60	NORMANDY	1
25				CG 61	MONTEREY	1
26				CG 62	CHANCELLORSVILLE	1
27				CG 63	COWPENS	1
28				CG 64	GETTYSBURG	1
29				CG 65	CHOSIN	1
30				CG 66	HUE CITY	1
31				CG 67	SHILOH	1
32				CG 68	ANZIO	1
33				CG 69	VICKSBURG	1
34				CG 70	LAKE ERIE	1
35				CG 71	CAPE ST. GEORGE	1
36				CG 72	VELLA GULF	1
37				CG 73	PORT ROYAL	1
38			DDG Guided Missile Destroyer	DDG 100	KIDD	1
39				DDG 101	GRIDLEY	1
40				DDG 102	SAMPSON	1
41				DDG 103	TRUXTUN	1
42				DDG 104	STERETT	1
43				DDG 105	DEWEY	1
44				DDG 106	STOCKDALE	1
45				DDG 107	GRAVELY	1
46				DDG 108	WAYNE E. MEYER	1
47				DDG 109	JASON DUNHAM	1
48				DDG 110	WILLIAM P. LAWRENCE	1
49				DDG 111	SPRUANCE	1
50				DDG 112	MICHAEL MURPHY	1
51				DDG 51	ARLEIGH BURKE	1
52				DDG 52	BARRY	1
53				DDG 53	JOHN PAUL JONES	1
54				DDG 54	CURTIS WILBUR	1
55				DDG 55	STOUT	1
56				DDG 56	JOHN S. MCCAIN	1
57				DDG 57	MITSCHER	1
58				DDG 58	LABOON	1
59				DDG 59	RUSSELL	1
60				DDG 60	PAUL HAMILTON	1
61				DDG 61	RAMAGE	1
62				DDG 62	FITZGERALD	1
63				DDG 63	STETHEM	1
64				DDG 64	CARNEY	1

Basic PivotTable | QuikLook_5030.8A Battleforce | QuikLook_NVR Ship Battle Force | QuikLook_5030.8A NonBattleforce

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* [34].[6] 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 [36]. At the highest level, ships are assigned to either the Ship Battle Forces[7] 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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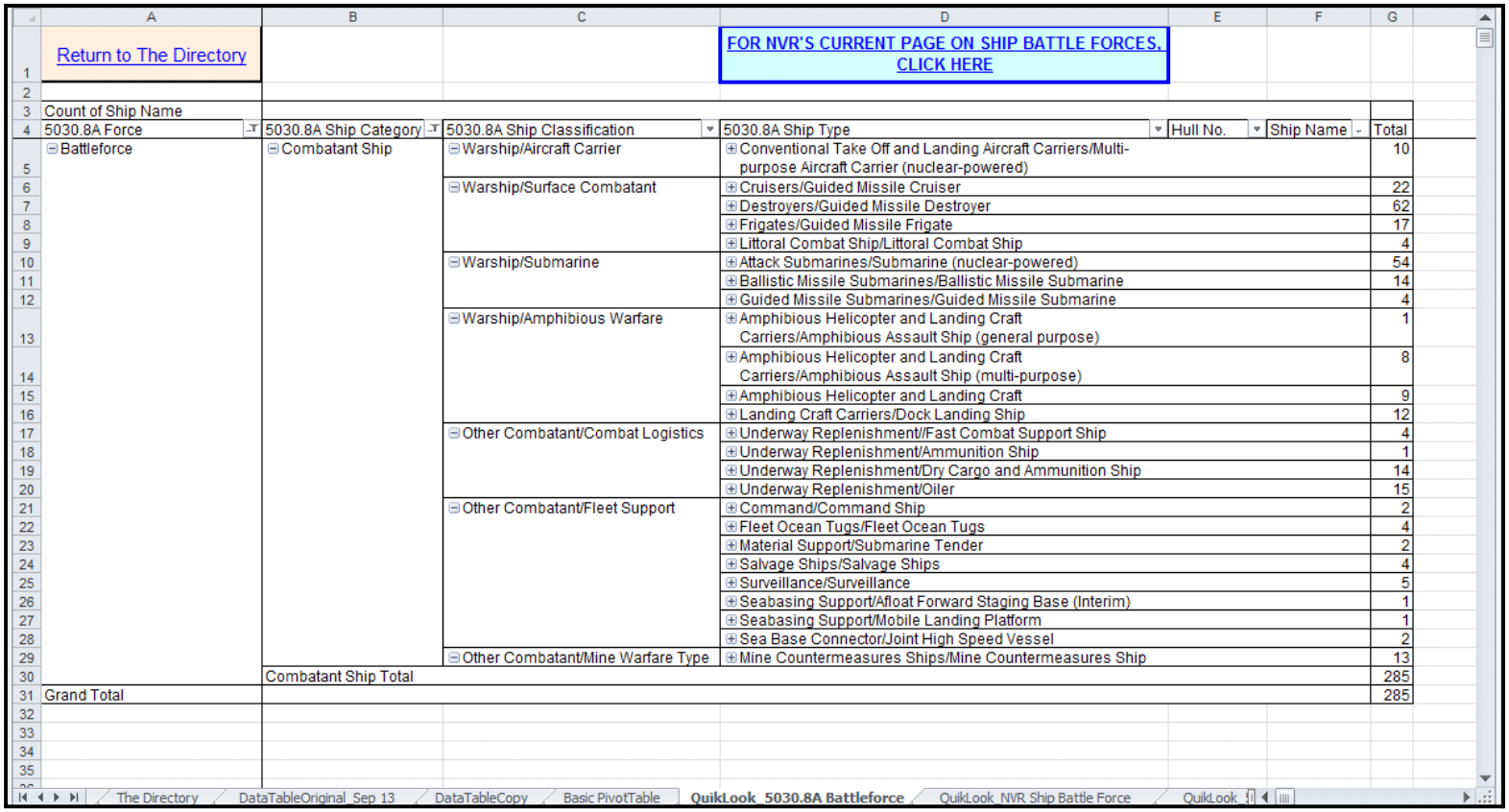
6. In March 2014, SECNAV INSTRUCTION 5030.8A was superseded by INSTRUCTION 5030.8B [35]. In this document, we retain 5030.8A as the standard since it was in effect during the data period of interest.

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.

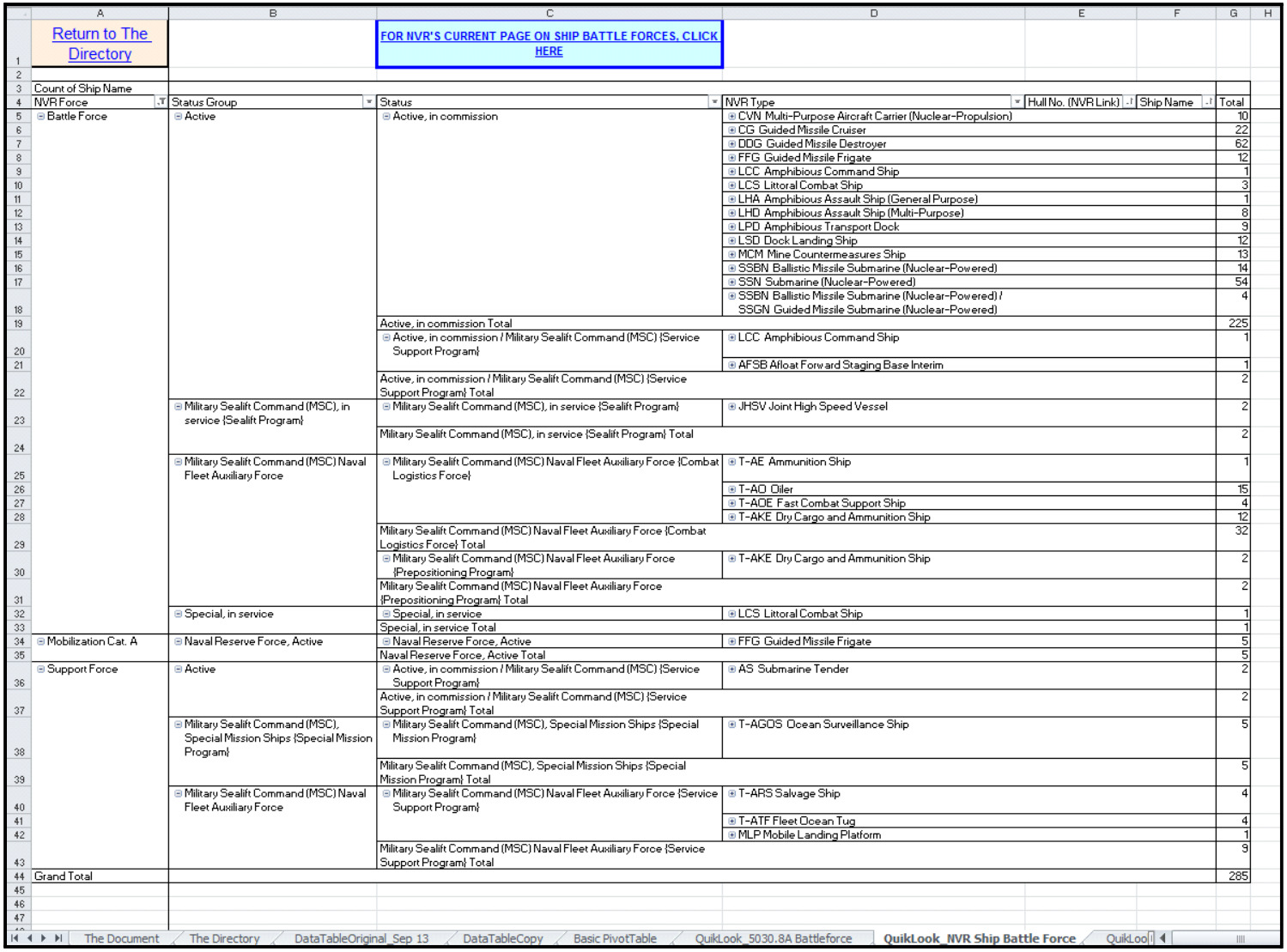
Figure 11. Composition of the 5030.8A Battleforce by ship classification and ship type as displayed in the *QuikLook_5030.8A Battleforce* Pivot Table



	A	B	C	D	E	F	G
1	Return to The Directory			FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE			
2							
3	Count of Ship Name						
4	5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No.	Ship Name	Total
5	Battleforce	Combatant Ship	Warship/Aircraft Carrier	Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)			10
6			Warship/Surface Combatant	Cruisers/Guided Missile Cruiser			22
7				Destroyers/Guided Missile Destroyer			62
8				Frigates/Guided Missile Frigate			17
9				Littoral Combat Ship/Littoral Combat Ship			4
10			Warship/Submarine	Attack Submarines/Submarine (nuclear-powered)			54
11				Ballistic Missile Submarines/Ballistic Missile Submarine			14
12				Guided Missile Submarines/Guided Missile Submarine			4
13			Warship/Amphibious Warfare	Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)			1
14				Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)			8
15				Amphibious Helicopter and Landing Craft			9
16				Landing Craft Carriers/Dock Landing Ship			12
17			Other Combatant/Combat Logistics	Underway Replenishment//Fast Combat Support Ship			4
18				Underway Replenishment/Ammunition Ship			1
19				Underway Replenishment/Dry Cargo and Ammunition Ship			14
20				Underway Replenishment/Oiler			15
21			Other Combatant/Fleet Support	Command/Command Ship			2
22				Fleet Ocean Tugs/Fleet Ocean Tugs			4
23				Material Support/Submarine Tender			2
24				Salvage Ships/Salvage Ships			4
25				Surveillance/Surveillance			5
26				Seabasing Support/Afloat Forward Staging Base (Interim)			1
27				Seabasing Support/Mobile Landing Platform			1
28				Sea Base Connector/Joint High Speed Vessel			2
29			Other Combatant/Mine Warfare Type	Mine Countermeasures Ships/Mine Countermeasures Ship			13
30		Combatant Ship Total					285
31	Grand Total						285
32							
33							
34							
35							

The Directory | DataTableOriginal_Sep 13 | DataTableCopy | Basic PivotTable | QuikLook_5030.8A Battleforce | QuikLook_NVR Ship Battle Force | QuikLook

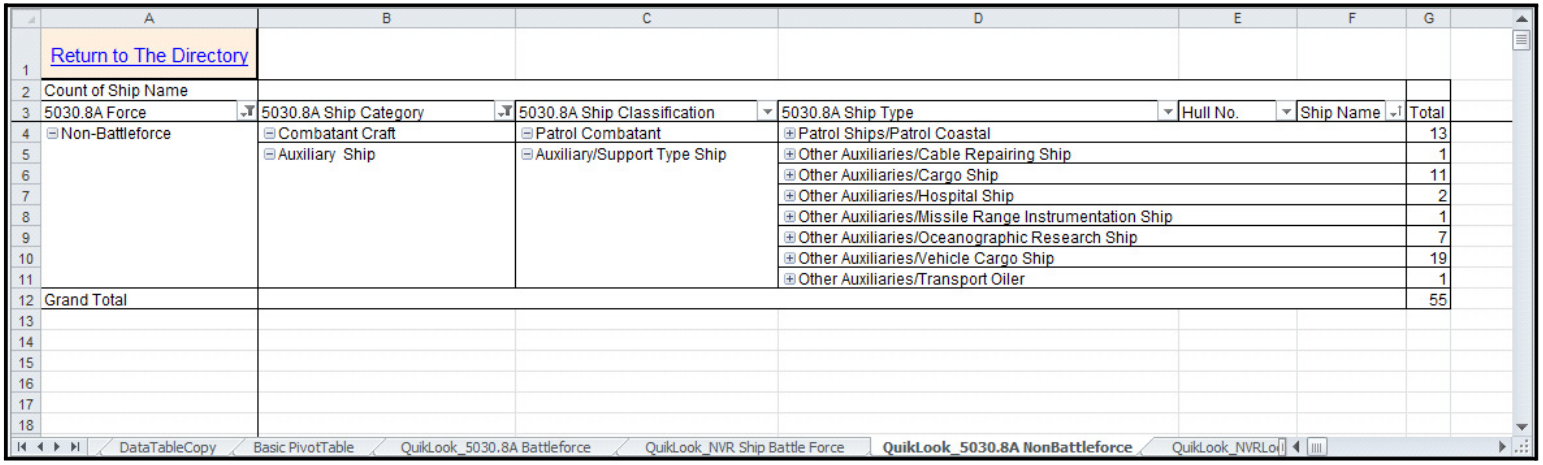
Figure 12. Makeup of the Ship Battle Forces as displayed in the *QuikLook_NVR Ship Battle Force* Pivot Table



	A	B	C	D	E	F	G	H
1	Return to The Directory		FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE					
2								
3	Count of Ship Name							
4	NVR Force	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total	
5	Battle Force	Active	Active, in commission	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)			10	
6				CG Guided Missile Cruiser			22	
7				DDG Guided Missile Destroyer			62	
8				FFG Guided Missile Frigate			12	
9				LCC Amphibious Command Ship			1	
10				LCS Littoral Combat Ship			3	
11				LHA Amphibious Assault Ship (General Purpose)			1	
12				LHD Amphibious Assault Ship (Multi-Purpose)			8	
13				LPD Amphibious Transport Dock			9	
14				LSD Dock Landing Ship			12	
15				MCM Mine Countermeasures Ship			13	
16				SSBN Ballistic Missile Submarine (Nuclear-Powered)			14	
17				SSN Submarine (Nuclear-Powered)			54	
18				SSBN Ballistic Missile Submarine (Nuclear-Powered) / SSGN Guided Missile Submarine (Nuclear-Powered)			4	
19			Active, in commission Total				225	
20			Active, in commission / Military Sealift Command (MSC) {Service Support Program}	LCC Amphibious Command Ship			1	
21				AFSB Afloat Forward Staging Base Interim			1	
22			Active, in commission / Military Sealift Command (MSC) {Service Support Program} Total				2	
23		Military Sealift Command (MSC), in service {Sealift Program}	Military Sealift Command (MSC), in service {Sealift Program}	JHSV Joint High Speed Vessel			2	
24			Military Sealift Command (MSC), in service {Sealift Program} Total				2	
25		Military Sealift Command (MSC) Naval Fleet Auxiliary Force	Military Sealift Command (MSC) Naval Fleet Auxiliary Force {Combat Logistics Force}	T-AE Ammunition Ship			1	
26				T-AO Oiler			15	
27				T-AOE Fast Combat Support Ship			4	
28				T-AKE Dry Cargo and Ammunition Ship			12	
29			Military Sealift Command (MSC) Naval Fleet Auxiliary Force {Combat Logistics Force} Total				32	
30			Military Sealift Command (MSC) Naval Fleet Auxiliary Force {Prepositioning Program}	T-AKE Dry Cargo and Ammunition Ship			2	
31			Military Sealift Command (MSC) Naval Fleet Auxiliary Force {Prepositioning Program} Total				2	
32		Special, in service	Special, in service	LCS Littoral Combat Ship			1	
33			Special, in service Total				1	
34	Mobilization Cat. A	Naval Reserve Force, Active	Naval Reserve Force, Active	FFG Guided Missile Frigate			5	
35			Naval Reserve Force, Active Total				5	
36	Support Force	Active	Active, in commission / Military Sealift Command (MSC) {Service Support Program}	AS Submarine Tender			2	
37			Active, in commission / Military Sealift Command (MSC) {Service Support Program} Total				2	
38		Military Sealift Command (MSC), Special Mission Ships {Special Mission Program}	Military Sealift Command (MSC), Special Mission Ships {Special Mission Program}	T-AGOS Ocean Surveillance Ship			5	
39			Military Sealift Command (MSC), Special Mission Ships {Special Mission Program} Total				5	
40		Military Sealift Command (MSC) Naval Fleet Auxiliary Force	Military Sealift Command (MSC) Naval Fleet Auxiliary Force {Service Support Program}	T-ARS Salvage Ship			4	
41				T-ATF Fleet Ocean Tug			4	
42				MLP Mobile Landing Platform			1	
43			Military Sealift Command (MSC) Naval Fleet Auxiliary Force {Service Support Program} Total				9	
44	Grand Total						285	
45								
46								
47								

The Document | The Directory | DataTableOriginal_Sep 13 | DataTableCopy | Basic PivotTable | QuikLook_5030.8A Battleforce | **QuikLook_NVR Ship Battle Force** | QuikLoo

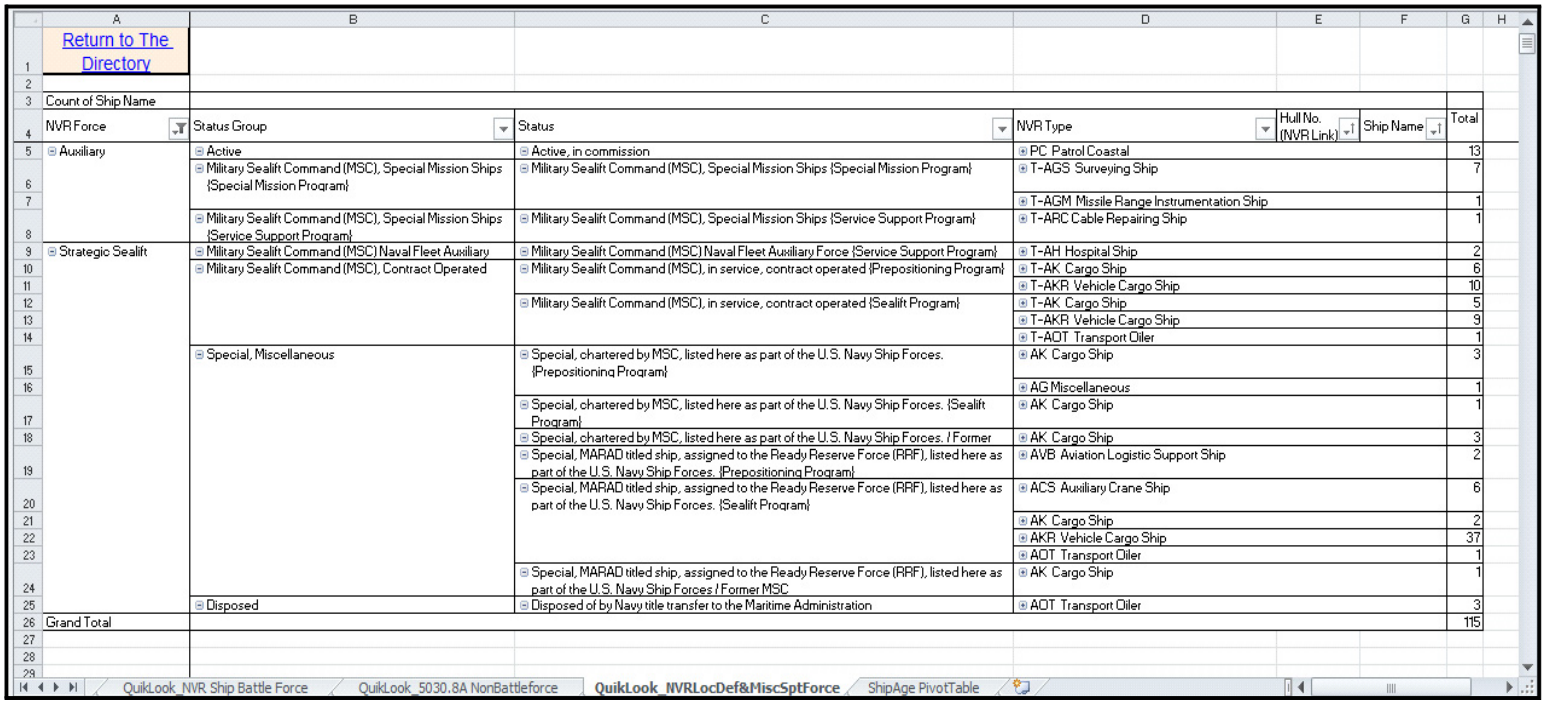
Figure 13. 5030.8A Non-Battleforce composition as displayed in the *QuikLook_5030.8A NonBattleForce* Pivot Table



	A	B	C	D	E	F	G
1	Return to The Directory						
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							
15							
16							
17							
18							

DataTableCopy | Basic PivotTable | QuikLook_5030.8A Battleforce | QuikLook_NVR Ship Battle Force | **QuikLook_5030.8A NonBattleforce** | QuikLook_NVRLo(

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



Return to The Directory

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 (Special Mission Program)	Military Sealift Command (MSC), Special Mission Ships (Special Mission Program)	T-AGS Surveying Ship			7
			T-AGM Missile Range Instrumentation Ship			1
	Military Sealift Command (MSC), Special Mission Ships (Service Support Program)	Military Sealift Command (MSC), Special Mission Ships (Service Support Program)	T-ARC Cable Repairing Ship			1
Strategic Sealift	Military Sealift Command (MSC) Naval Fleet Auxiliary	Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program)	T-AH Hospital Ship			2
	Military Sealift Command (MSC), Contract Operated	Military Sealift Command (MSC), in service, contract operated (Prepositioning Program)	T-AK Cargo Ship			6
			T-AKR Vehicle Cargo Ship			10
		Military Sealift Command (MSC), in service, contract operated (Sealift Program)	T-AK Cargo Ship			5
			T-AKR Vehicle Cargo Ship			9
			T-AOT Transport Oiler			1
	Special, Miscellaneous	Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. (Prepositioning Program)	AK Cargo Ship			3
			AG Miscellaneous			1
		Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. (Sealift Program)	AK Cargo Ship			1
		Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. / Former	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. (Prepositioning 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
			AOT 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
	Disposed	Disposed of by Navy title transfer to the Maritime Administration	AOT Transport Oiler			3
Grand Total						115

QuikLook_NVR Ship Battle Force | QuikLook_5030.8A NonBattleforce | **QuikLook_NVRLocDef&MiscSptForce** | ShipAge PivotTable

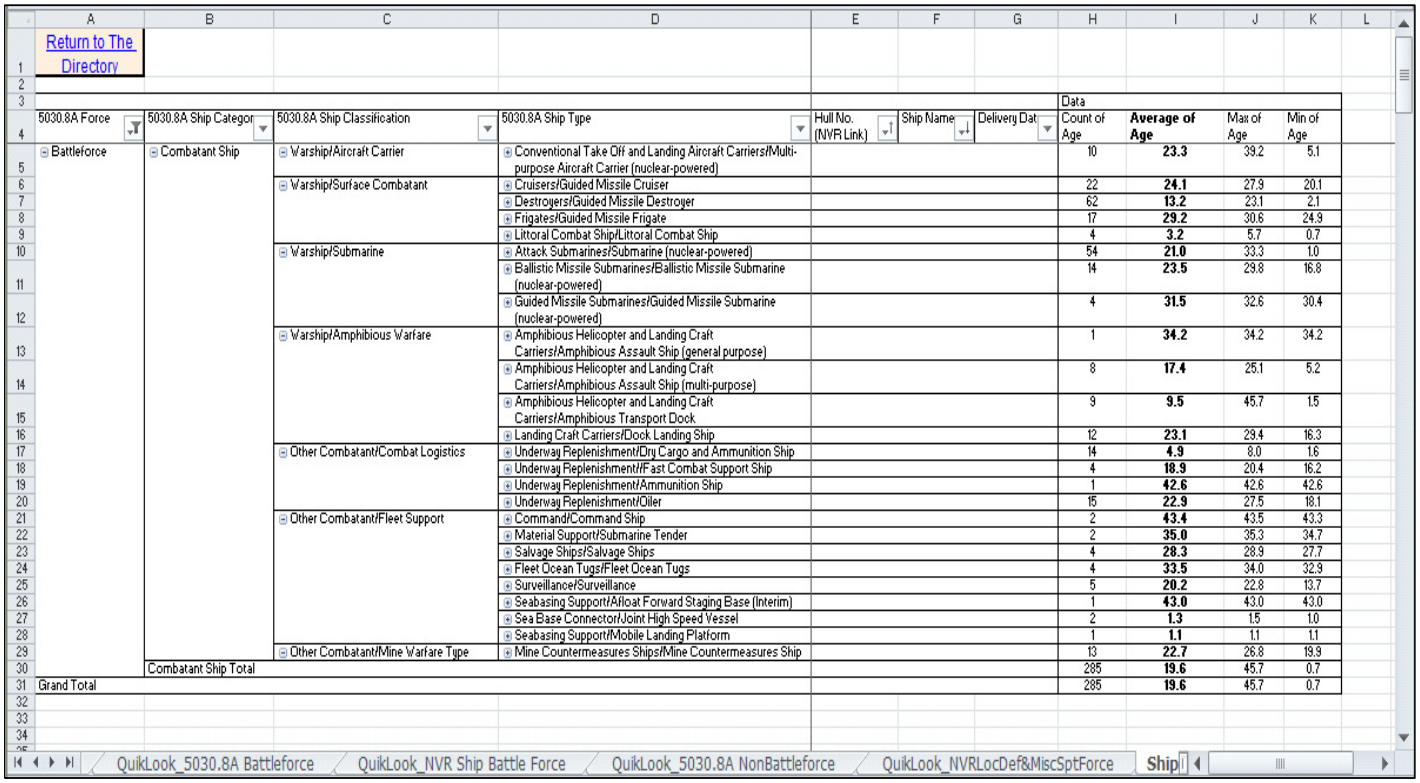
ShipAge Pivot Table

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 September 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



Return to The Directory

5030.8A Force	5030.8A Ship Categor	5030.8A Ship Classification	5030.8A Ship Type	Hull No. (NVR Link)	Ship Name	Delivery Dat	Data: Count of Age	Data: **Average of Age**	Data: Max of Age	Data: Min of Age
Battleforce	Combatant Ship	Warship/Aircraft Carrier	Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)				10	**23.3**	39.2	5.1
		Warship/Surface Combatant	Cruisers/Guided Missile Cruiser				22	**24.1**	27.9	20.1
			Destroyers/Guided Missile Destroyer				62	**13.2**	23.1	2.1
			Frigates/Guided Missile Frigate				17	**29.2**	30.6	24.9
			Littoral Combat Ship/Littoral Combat Ship				4	**3.2**	5.7	0.7
		Warship/Submarine	Attack Submarines/Submarine (nuclear-powered)				54	**21.0**	33.3	1.0
			Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)				14	**23.5**	29.8	16.8
			Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)				4	**31.5**	32.6	30.4
		Warship/Amphibious Warfare	Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)				1	**34.2**	34.2	34.2
			Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)				8	**17.4**	25.1	5.2
			Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock				9	**9.5**	45.7	1.5
			Landing Craft Carriers/Dock Landing Ship				12	**23.1**	29.4	16.3
		Other Combatant/Combat Logistics	Underway Replenishment/Dry Cargo and Ammunition Ship				14	**4.9**	8.0	1.6
			Underway Replenishment/Fast Combat Support Ship				4	**18.9**	20.4	16.2
			Underway Replenishment/Ammunition Ship				1	**42.6**	42.6	42.6
			Underway Replenishment/Oiler				15	**22.9**	27.5	18.1
		Other Combatant/Fleet Support	Command/Command Ship				2	**43.4**	43.5	43.3
			Material Support/Submarine Tender				2	**35.0**	35.3	34.7
			Salvage Ships/Salvage Ships				4	**28.3**	28.9	27.7
			Fleet Ocean Tugs/Fleet Ocean Tugs				4	**33.5**	34.0	32.9
			Surveillance/Surveillance				5	**20.2**	22.8	13.7
			Seabasing Support/Afloat Forward Staging Base (Interim)				1	**43.0**	43.0	43.0
			Sea Base Connector/Joint High Speed Vessel				2	**1.3**	1.5	1.0
			Seabasing Support/Mobile Landing Platform				1	**1.1**	1.1	1.1
		Other Combatant/Mine Warfare Type	Mine Countermeasures Ships/Mine Countermeasures Ship				13	**22.7**	26.8	19.9
	Combatant Ship Total						285	**19.6**	45.7	0.7
Grand Total							285	**19.6**	45.7	0.7

QuikLook_5030.8A Battleforce | QuikLook_NVR Ship Battle Force | QuikLook_5030.8A NonBattleforce | QuikLook_NVRLocDef&MiscSptForce | Ship

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 [37], (2) MSC's Ship Inventory [38], and (3) MARAD's NDRF Inventory [39].

We obtained the data from NVR by email [40], from MSC's Ship Inventory "Show changes" web site [41], and from MARAD's monthly reports on the NDRF Inventory [42–44].

Changes in the ship forces

SECNAVINST 5030.8A Battleforce increases to 285 ships

During the third quarter of 2013, the number of ships in the Battleforce as defined in SECNAVINST 5030.8A decreased from 286 to 285 ships [45]. One ship was decommissioned: USS *Reuben James* (FFG 37), on October 1.

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 [45], and the Ship Management Information System (iSMIS) Manager's report on October 21, 2013 on the Total Battleforce Count [46].

NVR Ship Battle Forces at 285 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 third 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 [47] and July 2013 [48].

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
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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List of figures

Figure 1. Main web page for the Integrated Ship Database 4

Figure 2. Lower section of the main database page 5

Figure 3. The Database Archive web page 6

Figure 4. The Document tab 8

Figure 5. The Directory tab 9

Figure 6. DataTableOriginal. 10

Figure 7. Basic Pivot Table. 14

Figure 8. Filtering on the Active Status Group using column A drop-down menu 15

Figure 9. Expanding the entire Status Group field. 16

Figure 10. Top portion of fully expanded Basic Pivot Table 17

Figure 11. Composition of the 5030.8A Battleforce by ship classification and ship type as displayed in the *QuikLook_5030.8A Battleforce* Pivot Table 19

Figure 12. Makeup of the Ship Battle Forces as displayed in the *QuikLook_NVR Ship Battle Force* Pivot Table 20

Figure 13. 5030.8A Non-Battleforce composition as displayed in the *QuikLook_5030.8A NonBattleForce* Pivot Table 21

Figure 14. QuikLook Pivot Table for the Local Defense and Miscellaneous Support Forces of the NVR convention, *QuikLook_NVRLocDef&MiscSptForce* 22

Figure 15. View of the Ship-Age Pivot Table 24

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