

CNA's Integrated Ship Database

Third Quarter CY 2012 Update

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Photo credit

"PACIFIC OCEAN (April 23, 2013) - Amphibious assault ship USS Peleliu (LHA 5) sails the Pacific Ocean with amphibious transport dock ship USS Green Bay (LPD 20), middle, and amphibious dock landing ship USS Rushmore (LSD 47). Peleliu is the flagship for the Peleliu Amphibious Ready Group on deployment in the western Pacific region with Green Bay, Rushmore, and embarked 15th Marine Expeditionary Unit. (U.S. Navy Photo by Mass Communication Specialist 3rd Class Michael Duran/Released)" (<http://www.flickr.com/photos/55244200@N05/8675382113>)

Commander, Naval Surface Force, U.S. Pacific Fleet. "Naval Surface Warriors—Flicker Photostream," Last accessed Jul. 24, 2013, at <http://www.flickr.com/photos/navalsurfaceforces/>.

Approved for distribution:

November 2013



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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 2012.

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 sponsor¹, from other CNA research scientists and analysts, and from others in government as well.

Since our initial version in 2005 [1], we have published 26 quarterly updates [2–27]. They are all 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 [28].

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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 in 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, 2012.

Finally, we present ship counts and inventory summaries as of September 30, 2012.

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 web page on CNA's web site (www.cna.org). The specific address for the main page for the database is at <http://www.cna.org/centers/operations-tactics/ship-database> [29]. Figure 1 illustrates the main page.

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

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

Figure 1. Main web page for the Integrated Ship Database

CNA
ANALYSIS & SOLUTIONS

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

CNA's Integrated Ship Database

CNA'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's Integrated Ship Database was developed and is maintained by senior research scientist Greg Suess, 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

June 2013

- › [ISDB2013-06.xlsm](#) 

March 2013

- › [ISDB2013-03.xlsm](#) 

2012

December 2012

- › [ISDB2012-12.xlsm](#) 

September 2012

- › [ISDB2012-09.xlsm](#) 

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](#)

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 October 21, 2013)

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

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.

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

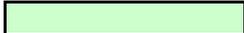
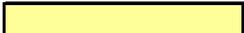
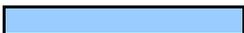
Figure 5 shows the next tab in the file—the Directory tab. The Directory helps you navigate to the various tabs in the database.

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 unit. The columns are the database fields.

The records

We have colored 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

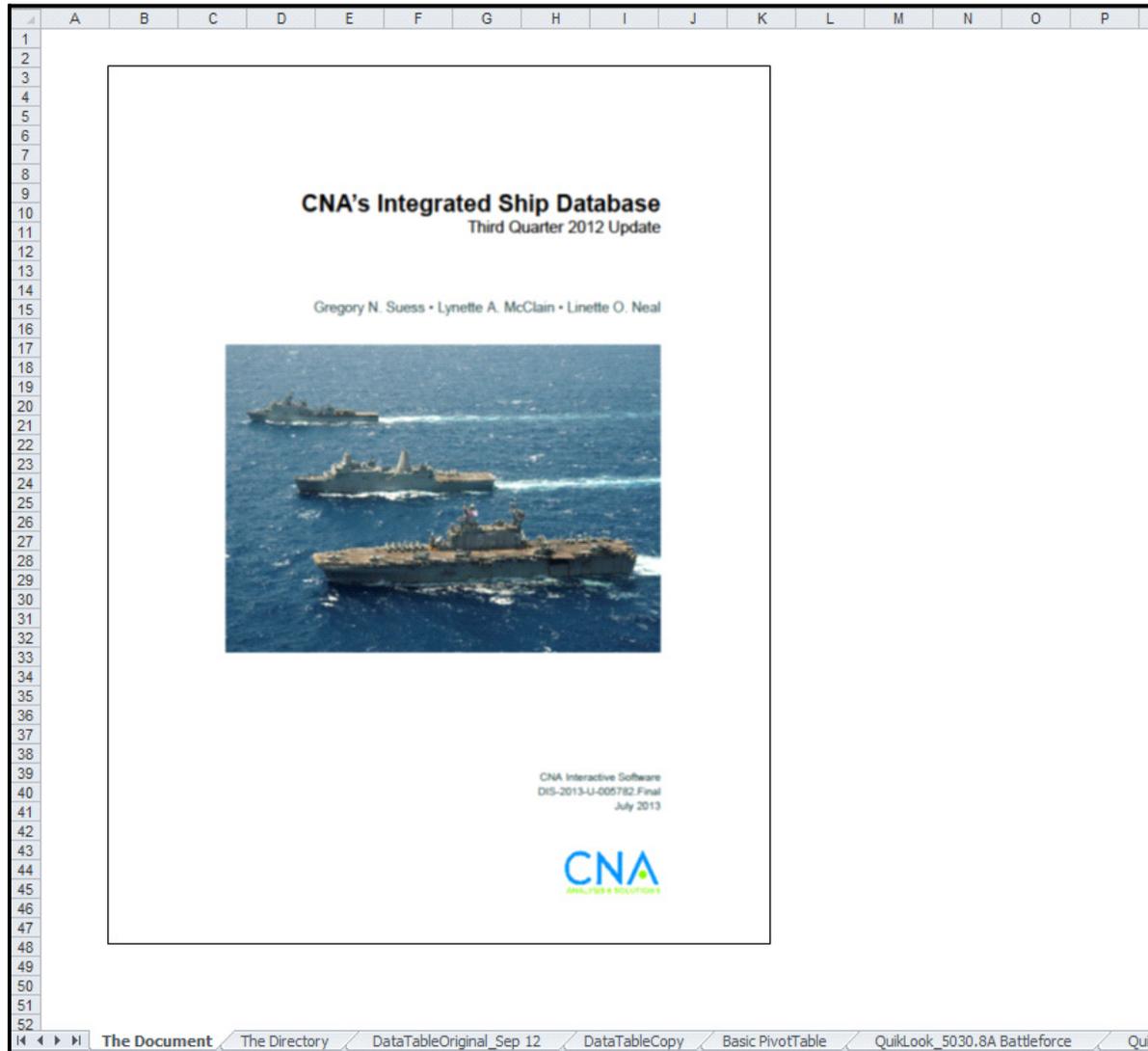


Figure 5. The Directory tab

	A	B	C	D	E	F	G
1							
2							
3	The Database	DataTableOriginal_Sep 12					
4							
5	Database Worksheet	DataTableCopy					
6							
7	Pivot Tables	The Basic Pivot Table					
8							
9		QuikLook Pivot Table on SECNAVINST 5030.8A Battleforce Ships					
10							
11		QuikLook Pivot Table on SECNAVINST 5030.8A Non-Battleforce Ships					
12							
13		QuikLook Pivot Table for NVR Ship Battle Forces					
14							
15		QuikLook Pivot Table for NVR Local Defense and Miscellaneous Support Forces					
16							
17		Ship Age PivotTable for Battleforce Ships					
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							

Taskbar: The Directory | DataTableOriginal_Sep 12 | DataTableCopy | BasicPivotTable | QuikLook_5030.8A Battleforce | QuikLook_NVR Ship Battle Force | QuikLook_5030.8A NonBattleforce

Figure 6. DataTableOriginal

	A	B	C	D	E	F	G
1	Return to The Directory	Today is	Friday	September 6, 2013			
2	Ship Name	Abbrev	Prefix	Hull No. (NVR Link)	NVR Type	UIC	Status
3	NO NAME			AGS 66	AGS Surveying Ship	10544	Authorized, for US Navy construction
4	JOHN FINN			DDG 113	DDG Guided Missile Destroyer	20010	Authorized, for US Navy construction
5	RALPH JOHNSON			DDG 114	DDG Guided Missile Destroyer	50125	Authorized, for US Navy construction
6	RAFAEL PERALTA			DDG 115	DDG Guided Missile Destroyer	50126	Authorized, for US Navy construction
7	MICHAEL MONSDOR			DDG 1001	DDG Guided Missile Destroyer	23189	Authorized, for US Navy construction
8	NO NAME			DDG 1002	DDG Guided Missile Destroyer	41163	Authorized, for US Navy construction
9	MILWAUKEE			LCS 5	LCS Littoral Combat Ship	20134	Authorized, for US Navy construction
10	JACKSON			LCS 6	LCS Littoral Combat Ship	20135	Authorized, for US Navy construction
11	DETROIT			LCS 7	LCS Littoral Combat Ship	20136	Authorized, for US Navy construction
12	MONTGOMERY			LCS 8	LCS Littoral Combat Ship	20137	Authorized, for US Navy construction
13	JOHN P MURTHA			LPD 26	LPD Amphibious Transport Dock	23182	Authorized, for US Navy construction
14	NORTH DAKOTA			SSN 784	SSN Submarine (Nuclear-Powered)	20037	Authorized, for US Navy construction
15	JOHN WARNER			SSN 785	SSN Submarine (Nuclear-Powered)	20038	Authorized, for US Navy construction
16	NO NAME			SSN 786	SSN Submarine (Nuclear-Powered)	20181	Authorized, for US Navy construction
17	NO NAME			SSN 787	SSN Submarine (Nuclear-Powered)	20182	Authorized, for US Navy construction
18	NO NAME			SSN 788	SSN Submarine (Nuclear-Powered)	27150	Authorized, for US Navy construction
19	NO NAME			SSN 789	SSN Submarine (Nuclear-Powered)	27151	Authorized, for US Navy construction
20	NO NAME			SSN 790	SSN Submarine (Nuclear-Powered)	27152	Authorized, for US Navy construction
21	NO NAME			SSN 791	SSN Submarine (Nuclear-Powered)	27153	Authorized, for US Navy construction
22	FORTITUDE			JHSV 3	JHSV Joint High Speed Vessel	29786	Authorized, for US Navy construction
23	FALL RIVER			JHSV 4	JHSV Joint High Speed Vessel	29787	Authorized, for US Navy construction
24	RESOLUTE			JHSV 5	JHSV Joint High Speed Vessel	29788	Authorized, for US Navy construction
25	NO NAME			JHSV 6	JHSV Joint High Speed Vessel	29789	Authorized, for construction
26	COURAGEOUS			JHSV 7	JHSV Joint High Speed Vessel	29790	Authorized, for construction
27	NO NAME			LPD 27	LPD Amphibious Transport Dock	3277A	Hull number assigned, authorized to be built, construction contract awarded
28	CESAR CHAVEZ			AKE 14	AKE Dry Cargo and Ammunition Ship	29003	Under construction in US by Navy, unassigned to fleet
29	GERALD R. FORD			CVN 78	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	23173	Under construction in US by Navy, unassigned to fleet
30	ZUMWALT			DDG 1000	DDG Guided Missile Destroyer	20121	Under construction in US by Navy, unassigned to fleet
31	CHOCTAW COUNTY			JHSV 2	JHSV Joint High Speed Vessel	29785	Under construction in US by Navy, unassigned to fleet
32	CORDONADO			LCS 4	LCS Littoral Combat Ship	20131	Under construction in US by Navy, unassigned to fleet
33	AMERICA			LHA 6	LHA Amphibious Assault Ship (General Purpose)	20103	Under construction in US by Navy, unassigned to fleet
34	ARLINGTON	AFL		LPD 24	LPD Amphibious Transport Dock	23180	Under construction in US by Navy, unassigned to fleet
35	SOMERSET	SOM		LPD 25	LPD Amphibious Transport Dock	23181	Under construction in US by Navy, unassigned to fleet
36	MINNESOTA	MIN		SSN 793	SSN Submarine (Nuclear-Powered)	20034	Under construction in US by Navy, unassigned to fleet
37	SPEARHEAD			JHSV 1	JHSV Joint High Speed Vessel	29784	Under construction in US for US Army, NAVSEA is the contractor
38	CONSTITUTION		USS	"Old Ironsides"	Other	01024	Active, in commission
39	PUEBLO	PBL	USS	AGER 2	AGER Environmental Research Ship	20256	Active, in commission
40	BUNKER HILL	BKH	USS	CG 52	CG Guided Missile Cruiser	21345	Active, in commission
41	MOBILE BAY	MOB	USS	CG 53	CG Guided Missile Cruiser	21346	Active, in commission
42	ANTIETAM	ANT	USS	CG 54	CG Guided Missile Cruiser	21387	Active, in commission
43	LEYTE GULF	LGT	USS	CG 55	CG Guided Missile Cruiser	21388	Active, in commission
44	SAN JACINTO	SJA	USS	CG 56	CG Guided Missile Cruiser	21389	Active, in commission
45	LAKE CHAMPLAIN	LKC	USS	CG 57	CG Guided Missile Cruiser	21428	Active, in commission
46	PHILIPPINE SEA	PSE	USS	CG 58	CG Guided Missile Cruiser	21429	Active, in commission
47	PRINCETON	PRN	USS	CG 59	CG Guided Missile Cruiser	21447	Active, in commission
48	NORFOLK	NOR, NMD	USS	CG 60	CG Guided Missile Cruiser	21449	Active, in commission
49	MONTEREY	MTY	USS	CG 61	CG Guided Missile Cruiser	21450	Active, in commission
50	CHANCELLORSVILLE	CHV	USS	CG 62	CG Guided Missile Cruiser	21451	Active, in commission
51	COVPENS	CDV	USS	CG 63	CG Guided Missile Cruiser	21623	Active, in commission

- Donated as museum, memorial 
- Disposed 
- Lost, sunk 
- Military Sealift Command 
- MARAD/NDRF 
- Hull number assigned, not built 
- Reclassed 
- No NVR status 
- Historical from PMARS², DANFS³, www.navy.mil 

The fields

The ISDB is made up of 32 fields. They include:

- Ship Name
- Abbrev (for ship abbreviation or 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

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

3. DANFS: Dictionary of American Naval Fighting Ships from the Naval History & 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](#))
- Previous, Other Names
- Award Date
- Keel Date
- Launch Date
- Delivery Date
- Commission Date
- Age
- Decommission/Out Of Action (OOA) Date
- Inactivation Date
- Stricken Date
- Date last updated
- Additional Comments, References

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 3,188 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.

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
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	<input type="checkbox"/> Authorized					25
6	<input type="checkbox"/> Under construction					10
7	<input type="checkbox"/> Active					250
8	<input type="checkbox"/> Naval Reserve Force, Active					8
9	<input type="checkbox"/> Inactive, Out of Commission/Service, or In reserve					13
10	<input type="checkbox"/> Stand Down					1
11	<input type="checkbox"/> Leased					7
12	<input type="checkbox"/> Loan					2
13	<input type="checkbox"/> Stricken					102
14	<input type="checkbox"/> Disposed					1,973
15	<input type="checkbox"/> Special, Miscellaneous (MSC Chartered and MARAD/NDRF Ready Reserve Force (RRF))					58
16	<input type="checkbox"/> Military Sealift Command (MSC), Not in NVR (Prepositioning Program)					3
17	<input type="checkbox"/> Military Sealift Command (MSC), Not in NVR (Sealift Program)					3
18	<input type="checkbox"/> Military Sealift Command, Contract Operated					33
19	<input type="checkbox"/> Military Sealift Command, Naval Fleet Auxiliary Force					44
20	<input type="checkbox"/> Military Sealift Command, Special Mission Ships					23
21	<input type="checkbox"/> Other NVR					52
22	<input type="checkbox"/> Other, Not in NVR					581
23	Grand Total					3,188

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

Count of Ship Name	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
Authorized					25
Under construction					10
Active					250
Naval Reserve Force, Active					8
Inactive, Out of Commission/Service, or Inactive					13
Stand Down					1
Leased					7
Loan					2
Stricken					102
Disposed					1,973
Special, Miscellaneous (MSC Chartered)					58
Military Sealift Command (MSC), Not in NVR					3
Military Sealift Command (MSC), Not in NVR					3
Military Sealift Command, Contract Operated					33
Military Sealift Command, Naval Fleet Auxiliary					44
Military Sealift Command, Special Missions					23
Other NVR					52
Other, Not in NVR					581
Grand Total					3,188

Figure 9. Expanding the entire Status Group field

The screenshot shows an Excel PivotTable with the following structure:

Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
Active					250
Grand Total					250

The context menu for the 'Status Group' field is open, showing the following options:

- Expand
- Collapse
- Expand Entire Field**
- Collapse Entire Field
- Collapse to "Status Group"
- Expand to "Status"
- Expand to "NVR Type"
- Expand to "Hull No.(NVR Link)"
- Expand to "Ship Name"

The 'Expand Entire Field' option is highlighted in yellow. The PivotTable is titled 'Basic PivotTable' and is located in the 'QuikLook_5030.8A Bat' workbook.

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				243
6		AGER Environmental Research Ship		AGER 2	PUEBLO	1
7						1
8		CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)		CVN 65	ENTERPRISE	11
9				CVN 68	NIMITZ	1
10				CVN 69	DWIGHT D. EISENHOWER	1
11				CVN 70	CARL VINSON	1
12				CVN 71	THEODORE ROOSEVELT	1
13				CVN 72	ABRAHAM LINCOLN	1
14				CVN 73	GEORGE WASHINGTON	1
15				CVN 74	JOHN C. STENNIS	1
16				CVN 75	HARRY S. TRUMAN	1
17				CVN 76	RONALD REAGAN	1
18				CVN 77	GEORGE H. W. BUSH	1
19						22
20		CG Guided Missile Cruiser		CG 52	BUNKER HILL	1
21				CG 53	MOBILE BAY	1
22				CG 54	ANTIETAM	1
23				CG 55	LEYTE GULF	1
24				CG 56	SAN JACINTO	1
25				CG 57	LAKE CHAMPLAIN	1
26				CG 58	PHILIPPINE SEA	1
27				CG 59	PRINCETON	1
28				CG 60	NORMANDY	1
29				CG 61	MONTEREY	1
30				CG 62	CHANCELLORSVILLE	1
31				CG 63	COWPENS	1
32				CG 64	GETTYSBURG	1
33				CG 65	CHOSIN	1
34				CG 66	HUE CITY	1
35				CG 67	SHILOH	1
36				CG 68	ANZIO	1
37				CG 69	VICKSBURG	1
38				CG 70	LAKE ERIE	1
39				CG 71	CAPE ST. GEORGE	1
40				CG 72	VELLA GULF	1
41				CG 73	PORT ROYAL	1
42						62
43		DDG Guided Missile Destroyer		DDG 100	KIDD	1
44				DDG 101	GRIDLEY	1
45				DDG 102	SAMPSON	1
46				DDG 103	TRUXTUN	1
47				DDG 104	STERETT	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* [30]. At the highest level, Instruction 5030.8A distinguishes between Battleforce⁴ 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 [31]. At the highest level, ships are assigned to either the Ship Battle Forces⁴ or to the Local Defense and Miscellaneous Support Force.

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.

4. Over the years, the term, "battle force," has been defined differently and taken different forms 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
	Combatant Ship	Warship/Aircraft Carrier	Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)			11
		Warship/Surface Combatant	Cruisers/Guided Missile Cruiser			22
			Destroyers/Guided Missile Destroyer			62
			Frigates/Guided Missile Frigate			23
			Littoral Combat Ship/Littoral Combat Ship			3
		Warship/Submarine	Attack Submarines/Submarine (nuclear-powered)			54
			Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)			14
			Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)			4
		Warship/Amphibious Warfare	Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)			1
			Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)			8
			Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock			8
			Landing Craft Carriers/Dock Landing Ship			12
		Other Combatant/Combat Logistics	Underway Replenishment/Fast Combat Support Ship			4
			Underway Replenishment/Ammunition Ship			1
			Underway Replenishment/Dry Cargo and Ammunition Ship			13
			Underway Replenishment/Oiler			15
		Other Combatant/Fleet Support	Command/Command Ship			2
			Fleet Ocean Tugs/Fleet Ocean Tugs			4
			Material Support/Submarine Tender			2
			Salvage Ships/Salvage Ships			4
			Surveillance/Surveillance			5
			Seabasing Support/Afloat Forward Staging Base (Interim)			1
		Other Combatant/Mine Warfare Type Ships	Mine Countermeasures Ships/Mine Countermeasures Ship			14
		Combatant Ship Total				287
Grand Total						287

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 Link)	Ship Name	Total
FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE						
228	Active	Active, in commission	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)			11
22			CG Guided Missile Cruiser			22
62			DDG Guided Missile Destroyer			62
15			FFG Guided Missile Frigate			15
1			LCC Amphibious Command Ship			1
3			LCS Littoral Combat Ship			3
1			LHA Amphibious Assault Ship (General Purpose)			1
8			LHD Amphibious Assault Ship (Multi-Purpose)			8
7			LPD Amphibious Transport Dock			7
12			LSD Dock Landing Ship			12
14			MCM Mine Countermeasures Ship			14
14			SSEN Ballistic Missile Submarine (Nuclear-Powered)			14
4			SSGN Guided Missile Submarine (Nuclear-Powered)			4
54			SSN Submarine (Nuclear-Powered)			54
1		Active, in service	LPD Amphibious Transport Dock			1
2		Active, in commission / Military Sealift Command (MSC) (Service Support Program)				2
1	Military Sealift Command (MSC), Naval Fleet Auxiliary Force		LCC Amphibious Command Ship			1
1			AFSB Afloat Forward Staging Base Interim			1
33		Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Combat Logistics Force)				33
1			T-AE Ammunition Ship			1
15			T-AD Oiler			15
4			T-AOE Fast Combat Support Ship			4
13			T-AKE Dry Cargo and Ammunition Ship			13
8	Naval Reserve Force, Active	Naval Reserve Force, Active				8
8			FFG Guided Missile Frigate			8
2	Active	Active, in commission / Military Sealift Command (MSC) (Service Support Program)				2
2			AS Submarine Tender			2
8	Military Sealift Command (MSC), Naval Fleet Auxiliary Force	Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program)				8
4			T-ARS Salvage Ship			4
4			T-ATF Fleet Ocean Tug			4
5	Military Sealift Command (MSC), Special Mission Ships	Military Sealift Command (MSC), Special Mission Ships (Special Mission Program)				5
5			T-AGOS Ocean Surveillance Ship			5
287	Grand Total					287

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						
5		[-] Combatant Craft					13
6			[-] Patrol Combatant				
7				[-] Patrol Ships/Patrol Coastal			13
8		[-] Auxiliary Ship					42
9			[-] Auxiliary/Support Type Ship				
10				[-] Other Auxiliaries/Cable Repairing Ship			1
11				[-] Other Auxiliaries/Cargo Ship			11
12				[-] Other Auxiliaries/Hospital Ship			2
13				[-] Other Auxiliaries/Missile Range Instrumentation Ship			1
14				[-] Other Auxiliaries/Oceanographic Research Ship			7
15				[-] Other Auxiliaries/Vehicle Cargo Ship			19
16				[-] Other Auxiliaries/Transport Oiler			1
17	Grand Total						55
18							
19							
20							
21							
22							
23							
24							

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

	A	B	C	D	E	F	G
1	Return to The Directory						
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				13
6				⊕ PC Patrol Coastal			13
7		⊕ Military Sealift Command (MSC), Naval Fleet Auxiliary Force	⊕ Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program)				1
8				⊕ T-ARC Cable Repairing Ship			1
9		⊕ Military Sealift Command (MSC), Special Mission Support	⊕ Military Sealift Command (MSC), Special Mission Ships (Special Mission Program)				8
10				⊕ T-AGS Surveying Ship			7
11				⊕ T-AGM Missile Range Instrumentation Ship			1
12	⊖ Strategic Sealift	⊕ Military Sealift Command (MSC), Naval Fleet Auxiliary Force	⊕ Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program)				2
13				⊕ T-AH Hospital Ship			2
14		⊕ Special, Miscellaneous	⊕ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. (Prepositioning Program)				5
15				⊕ AK Cargo Ship			4
16				⊕ AG Miscellaneous			1
17			⊕ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. (Sealift Program)				2
18				⊕ AK Cargo Ship			2
19			⊕ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. (Prepositioning Program)				2
20				⊕ AVB Aviation Logistic Support Ship			2
21			⊕ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. (Sealift Program)				46
22				⊕ ACS Auxiliary Crane Ship			6
23				⊕ AK Cargo Ship			2
24				⊕ AKR Vehicle Cargo Ship			37
25				⊕ AOT Transport Oiler			1
26			⊕ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. (Former MSC)				1
27		⊕ Military Sealift Command (MSC), Contract Operated	⊕ Military Sealift Command (MSC), in service, contract operated (Prepositioning Program)				1
28				⊕ T-AK Cargo Ship			21
29				⊕ T-AKR Vehicle Cargo Ship			11
30				⊕ T-ADT Transport Oiler			3
31			⊕ Military Sealift Command (MSC), in service, contract operated (Sealift Program)				1
32				⊕ T-ADT Transport Oiler			10
33				⊕ T-AKR Vehicle Cargo Ship			10
34		⊕ Disposed	⊕ Disposed of by Navy title transfer to the Maritime Administration				3
35				⊕ AOT Transport Oiler			3
36	Grand Total						114
37							
38							
39							
40							
41							
42							
43							
44							
45							

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 in the various 5030.8A ship-type groups. The ages displayed upon opening the file 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.⁵

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.

5. 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 and use the various options under the “Refresh All” button in the “Connections” section of the “Ribbon.”

Figure 15. View of the Ship-Age Pivot Table

Return to The Directory												
5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No. (NVR Link)	Ship Name	Delivery Date	Data	Count of Age	Average of Age	Max of Age	Min of Age	
⊖ Battleforce	⊖ Combatant Ship	⊖ Warship/Aircraft Carrier	⊖ Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)				11	25.1	51.7	4.2		
		Warship/Aircraft Carrier Total					11	25.1	51.7	4.2		
		⊖ Warship/Surface Combatant	⊖ Cruisers/Guided Missile Cruiser				22	23.2	27.0	19.2		
			⊖ Destroyers/Guided Missile Destroyer				62	12.3	22.2	1.2		
			⊖ Frigates/Guided Missile Frigate				23	28.5	30.5	24.0		
			⊖ Littoral Combat Ship/Littoral Combat Ship				3	3.2	4.8	1.1		
		Warship/Surface Combatant Total					110	17.6	30.5	1.1		
		⊖ Warship/Submarine	⊖ Attack Submarines/Submarine (nuclear-powered)				54	20.9	32.4	1.9		
			⊖ Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)				14	22.6	28.8	15.9		
			⊖ Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)				4	30.6	31.7	29.5		
		Warship/Submarine Total					72	21.8	32.4	1.9		
		⊖ Warship/Amphibious Warfare	⊖ Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)				1	33.3	33.3	33.3		
			⊖ Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)				8	16.4	24.2	4.3		
			⊖ Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock				8	10.8	44.7	1.6		
			⊖ Landing Craft Carriers/Dock Landing Ship				12	22.1	28.5	15.4		
		Warship/Amphibious Warfare Total					23	18.1	44.7	1.6		
		⊖ Other Combatant/Combat	⊖ Underway Replenishment/Dry Cargo and Ammunition Ship				13	4.5	7.1	1.8		
			⊖ Underway Replenishment/Fast Combat Support Ship				4	18.0	19.5	15.3		
			⊖ Underway Replenishment/Ammunition Ship				1	41.7	41.7	41.7		
			⊖ Underway Replenishment/Oiler				15	22.0	26.6	17.2		
		Other Combatant/Combat Logistics Total					33	15.5	41.7	1.8		
		⊖ Other Combatant/Fleet Support	⊖ Command/Command Ship				2	42.5	42.6	42.4		
			⊖ Material Support/Submarine Tender				2	34.1	34.4	33.8		
			⊖ Salvage Ships/Salvage Ships				4	27.4	28.0	26.8		
			⊖ Fleet Ocean Tugs/Fleet Ocean Tugs				4	32.6	33.1	32.0		
			⊖ Surveillance/Surveillance				5	19.2	21.9	12.8		
			⊖ Seabasing Support/Afloat Forward Staging Base (Interim)				1	42.1	42.1	42.1		
		Other Combatant/Fleet Support Total					18	29.5	42.6	12.8		
		⊖ Other Combatant/Mine Warfare Type Ships	⊖ Mine Countermeasures Ships/Mine Countermeasures Ship				14	22.0	25.9	19.0		
		Other Combatant/Mine Warfare Type Ships Total					14	22.0	25.9	19.0		
	Combatant Ship Total						287	19.7	51.7	1.1		
	Grand Total						287	19.7	51.7	1.1		

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 [32], (2) MSC's Ship Inventory [33], and (3) MARAD's NDRF Inventory [34].

We obtained the data from NVR by e-mail [35], from MSC's Ship Inventory "Show changes" web site [36], and from MARAD's monthly reports on the NDRF Inventory [37–39].

Changes in the ship forces

SECNAVINST 5030.8A Battleforce increases to 287 ships

During the third quarter, the number of ships in the Battleforce as defined in SECNAVINST 5030.8A increased from 286 to 287 ships [40]. One ship was delivered to the Navy and MSC: PCU *Anchorage* (LPD 23) on September 17, 2012.

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 [40].

NVR Ship Battle Forces at 287 ships

The composition of the Ship Battle Forces according to NVR's ship classification system as presented in ISDB's *Quiklook_NVR Ship Battle Forces* 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 Table (SASDT) of June 2012 [11].

NVR Local Defense and Miscellaneous Support Forces at 114 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.⁶

6. In our report for the previous quarter [27], we reported 113 ships in the Local Defense and Miscellaneous Support Force. In reviewing the data for this report, we found that our entry for Cape Jacob (AK 5029) did not include its status in the Strategic Sealift Force.

Glossary

DANFS	Dictionary of American Naval Fighting Ships
ISDB	Integrated Ship Database
MARAD	Maritime Administration
MSC	Military Sealift Command
NDRF	National Defense Reserve Fleet
NFAF	Naval Fleet Auxiliary Force
NHHC	Naval History and Heritage Command
NHPA	National Historic Preservation Act of 1966
NVR	Naval Vessel Register
OOA	Out of action
PCU	Pre-Commissioning Unit
PMARS	Property Management and Archive Record System
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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