CNA's Integrated Ship Database

Fourth Quarter 2011 Update

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Introduction

Background

In December 2005, we published the first edition of CNA's Integrated Ship Database (ISDB) [1]. Our intent then, as now, was to bring together data on naval ships already available from separate sources into a single combined database tool. We wanted to keep this integrated information current. We wanted to make it readily accessible for analysis and reporting. And finally, we wanted to be able to rapidly respond to requests from our sponsor[1], from other CNA research scientists and analysts, and from others in government as well.

Since 2005, we have published 23 quarterly updates [2–24]. They are all available online on the Integrated Ship Database page of CNA's website, www.cna.org [25].

In this CNA Interactive Software document, we present our update for the fourth quarter of calendar year 2011.

Organization of the document

In the next section of the paper, we summarize the changes in this update, some of which have resulted in a "new look" for the database file. In the final section, we present an overview of the layout of the file and give some basic instructions on using the database. Because of the "new look," these instructions should be of value to the experienced user as well as to the beginner.

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

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Changes in this update

In the Excel file

Change to Excel 2010

With this update, we've moved from Microsoft Excel 2003 to Excel 2010 as our development and product software. Because we've introduced macros this time, the file type is now an Excel Macro-Enabled Worksheet (with the associated file name extension of .xlsm).

The .xlsm file type opens in Excel 2010 and Excel 2007, but not in Excel 2003 or earlier versions. We also provide an Excel 97-2003 Worksheet (or .xls) file for users with the older versions of Excel. The newly added macros will function with the earlier versions.

New worksheets added

***The Document* worksheet**

In past updates, we reported changes as CNA Informal Memoranda (CMEs) apart from the Interactive Software product. In this update, we merge the two document types into a single Interactive Software document. We also insert the written document into a new worksheet tab in the Excel database file named *The Document*. Figure 1 shows the new sheet.

The document file and the Excel files are all available on the Integrated Ship Database page of CNA's web site – www.cna.org [25].

***The Directory* worksheet**

To facilitate easier navigation, we added a directory sheet. Figure 2 displays *The Directory* sheet.

Figure 1. *The Document* worksheet

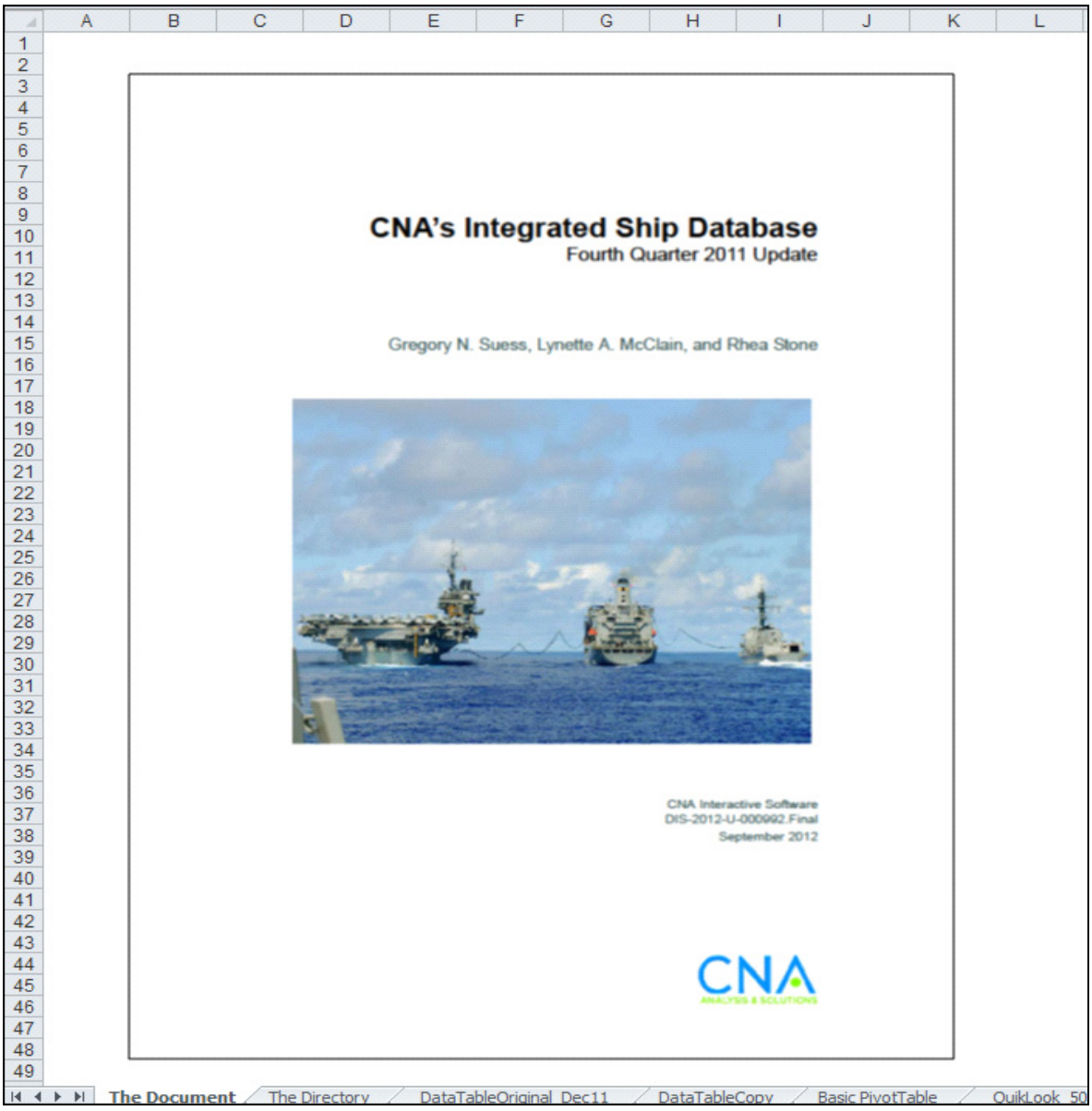
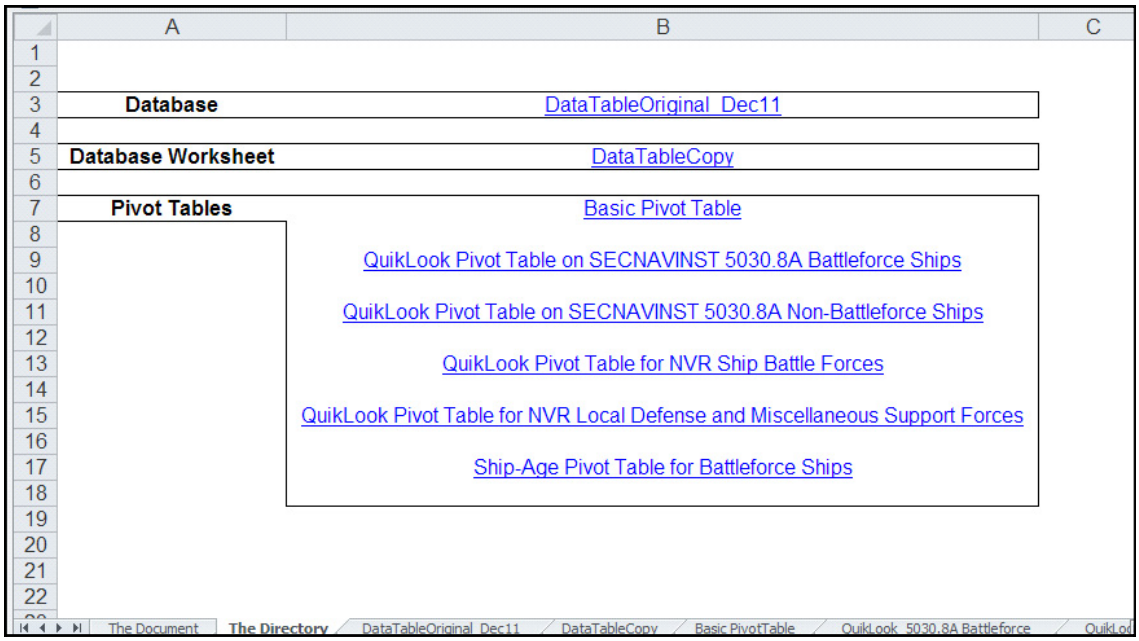


Figure 2. *The Directory* worksheet



The Directory contains hyperlinks to the various worksheets in the file as indicated by the blue, underlined text font. For example, if you clicked on the link to the Ship-Age Pivot Table, you would see that sheet as shown in figure 3.

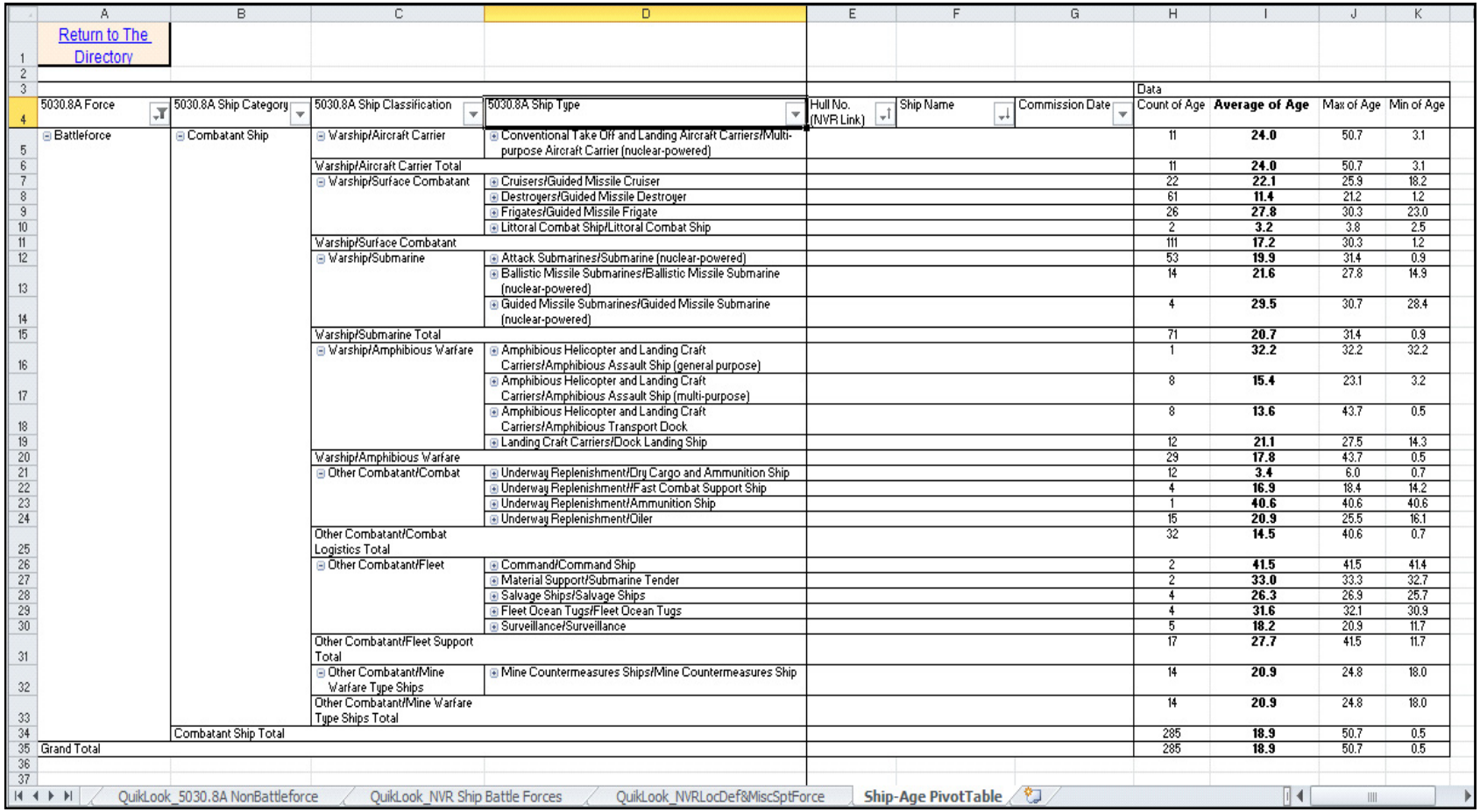
To navigate back to the directory page, you can just select the link in cell A1of the Pivot Table.

The *Ship-Age Pivot Table*

We added the *Ship-Age Pivot Table* as a result of a recent request for information on the ages of ships in fleet now, and in the past. In the opening view (Figure 3), the pivot table summarizes the age data for ships currently in the Battleforce.

The data in the pivot table is organized according to the various groups in the Secretary of the Navy's Instruction on ship classification and Battleforce ship counting [26], i.e. Force Category, Ship Category, Ship Classification, etc. The table shows the summary data for

Figure 3. *Opening view of 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	Commission Date	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)				11	**24.0**	50.7	3.1
		Warship/Aircraft Carrier Total					11	**24.0**	50.7	3.1
		Warship/Surface Combatant	Cruisers/Guided Missile Cruiser				22	**22.1**	25.9	18.2
			Destroyers/Guided Missile Destroyer				61	**11.4**	21.2	1.2
			Frigates/Guided Missile Frigate				26	**27.8**	30.3	23.0
			Littoral Combat Ship/Littoral Combat Ship				2	**3.2**	3.8	2.5
		Warship/Surface Combatant					111	**17.2**	30.3	1.2
		Warship/Submarine	Attack Submarines/Submarine (nuclear-powered)				53	**19.9**	31.4	0.9
			Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)				14	**21.6**	27.8	14.9
			Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)				4	**29.5**	30.7	28.4
		Warship/Submarine Total					71	**20.7**	31.4	0.9
		Warship/Amphibious Warfare	Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)				1	**32.2**	32.2	32.2
			Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)				8	**15.4**	23.1	3.2
			Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock				8	**13.6**	43.7	0.5
			Landing Craft Carriers/Dock Landing Ship				12	**21.1**	27.5	14.3
		Warship/Amphibious Warfare					29	**17.8**	43.7	0.5
		Other Combatant/Combat	Underway Replenishment/Dry Cargo and Ammunition Ship				12	**3.4**	6.0	0.7
			Underway Replenishment/Fast Combat Support Ship				4	**16.9**	18.4	14.2
			Underway Replenishment/Ammunition Ship				1	**40.6**	40.6	40.6
			Underway Replenishment/Oiler				15	**20.9**	25.5	16.1
		Other Combatant/Combat Logistics Total					32	**14.5**	40.6	0.7
		Other Combatant/Fleet	Command/Command Ship				2	**41.5**	41.5	41.4
			Material Support/Submarine Tender				2	**33.0**	33.3	32.7
			Salvage Ships/Salvage Ships				4	**26.3**	26.9	25.7
			Fleet Ocean Tugs/Fleet Ocean Tugs				4	**31.6**	32.1	30.9
			Surveillance/Surveillance				5	**18.2**	20.9	11.7
		Other Combatant/Fleet Support Total					17	**27.7**	41.5	11.7
		Other Combatant/Mine Warfare Type Ships	Mine Countermeasures Ships/Mine Countermeasures Ship				14	**20.9**	24.8	18.0
		Other Combatant/Mine Warfare Type Ships Total					14	**20.9**	24.8	18.0
	Combatant Ship Total						285	**18.9**	50.7	0.5
Grand Total							285	**18.9**	50.7	0.5

each group including the number of ships in the group, the average age of the group, and the maximum and minimum ages of units in the group.

Changes to *DataTableOriginal*

DataTableOriginal_Dec11 is the worksheet containing all the data. Here we discuss the changes to this sheet.

The Age field

We added a field to the database for calculating the age of a ship. Figure 4 shows the location of the new field in column AB. It lies in the section with major dates in the life of a ship, i.e. Award Date, Keel Date, Delivery Date, Commission Date, Decommission/Out-of-Action Date, Stricken Date between the Commission and Decommission/Out-of-Action fields.

For ships currently in the fleet. We calculate the age of ships currently in the fleet as the fractional years between the Delivery Date and the current date. We selected the Delivery Date, and not the Commission Date, because of the direction in SECNAVINST 5030.8A:

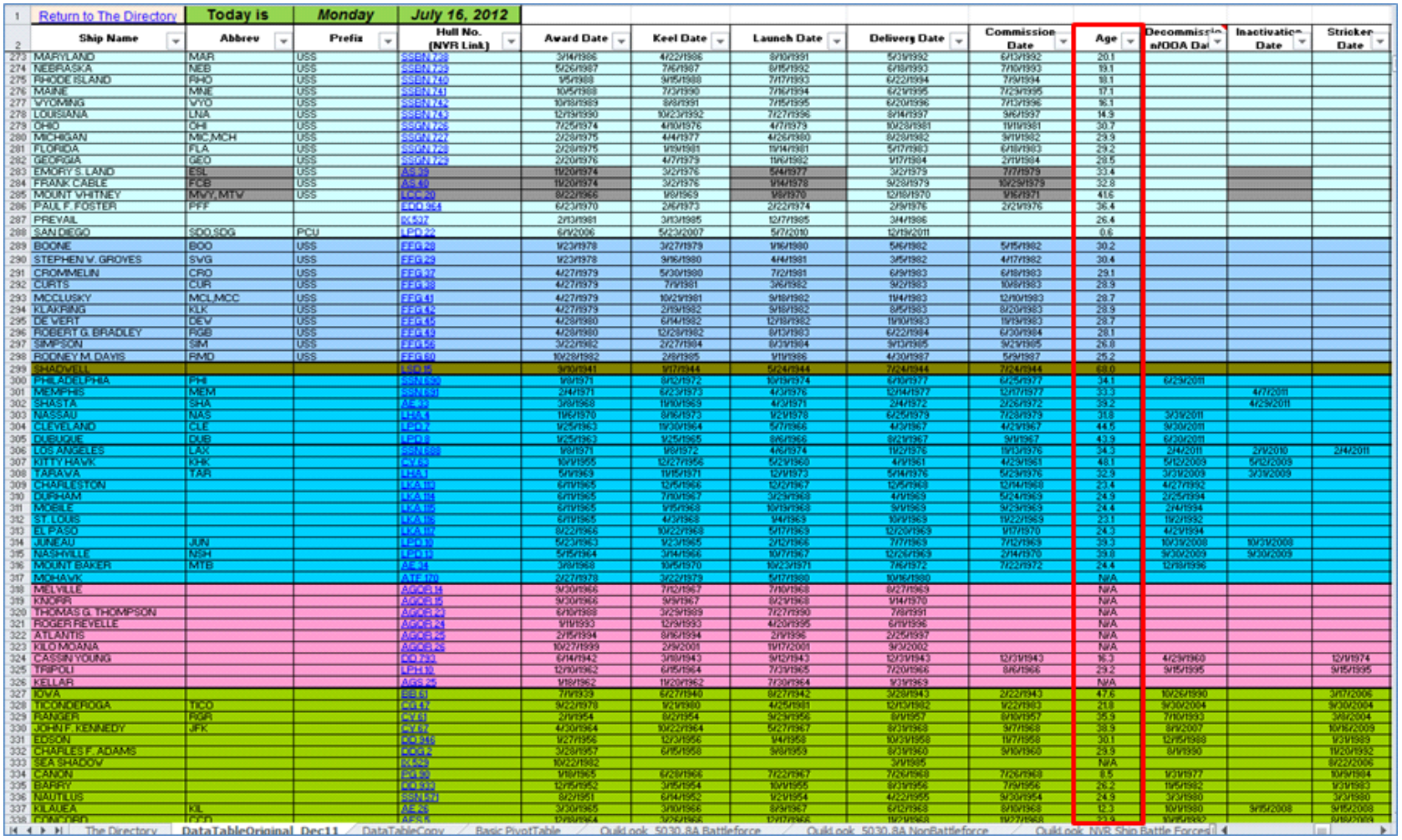
> Battleforce ships are counted as part of the Navy's active inventory effective upon acceptance by the Navy's accepting authority, Commander, Naval Sea Systems Command (COMNAVSEASYSCOM).

Specifically, we used the Excel functions, YEARFRAC() and TODAY(), to determine the age:

Age = YEARFRAC(TODAY(), "Delivery Date", 1)

where "1" specifies the number of significant decimals displayed.

Figure 4. New field for calculating ship age



	Return to The Directory	Today is	Monday	July 16, 2012									
	Ship Name	Abbrev	Prefix	Hull No. (NVR Link)	Award Date	Keel Date	Launch Date	Delivery Date	Commission Date	Age	Decommissioned/OOA Dat	Inactivation Date	Stricken Date
273	MARYLAND	MAR	USS	SSBN 738	3/14/1986	4/22/1986	8/10/1991	5/31/1992	6/13/1992	20.1			
274	NEBRASKA	NEB	USS	SSBN 739	5/26/1987	7/6/1987	8/15/1992	6/18/1993	7/10/1993	19.1			
275	RHODE ISLAND	RHO	USS	SSBN 740	9/5/1988	9/15/1988	7/17/1993	6/22/1994	7/9/1994	18.1			
276	MAINE	MNE	USS	SSBN 741	10/5/1988	7/3/1990	7/16/1994	6/23/1995	7/23/1995	17.1			
277	WYOMING	WYO	USS	SSBN 742	10/18/1989	8/8/1991	7/15/1995	6/20/1996	7/13/1996	16.1			
278	LOUISIANA	LNA	USS	SSBN 743	12/13/1990	10/23/1992	7/27/1996	8/14/1997	9/6/1997	14.9			
279	OHIO	OHI	USS	SSBN 726	7/25/1974	4/10/1976	4/7/1979	10/28/1981	11/11/1981	30.7			
280	MICHIGAN	MIC,MCH	USS	SSBN 727	2/28/1975	4/4/1977	4/26/1980	8/28/1982	9/11/1982	29.9			
281	FLORIDA	FLA	USS	SSBN 728	2/28/1975	1/9/1981	11/14/1981	5/17/1983	6/18/1983	29.2			
282	GEORGIA	GEO	USS	SSBN 729	2/20/1976	4/7/1979	11/6/1982	1/17/1984	2/11/1984	28.5			
283	EMORY S. LAND	ESL	USS	AS 39	11/20/1974	3/22/1976	5/14/1977	3/22/1979	7/7/1979	33.4			
284	FRANK CABLE	FCB	USS	AS 40	11/20/1974	3/22/1976	1/14/1978	9/28/1979	10/29/1979	32.8			
285	MOUNT VHITNEY	MVY, MTV	USS	LCC 20	8/22/1966	1/6/1969	1/6/1970	12/18/1970	1/16/1971	41.6			
286	PAUL F. FOSTER	PFF		EDD 964	6/23/1970	2/6/1973	2/22/1974	2/9/1976	2/21/1976	36.4			
287	PREVAIL			PC 537	2/13/1981	3/13/1985	12/7/1985	3/14/1986		26.4			
288	SAN DIEGO	SDO,SDG	PCU	LPD 22	6/9/2006	5/23/2007	5/7/2010	12/19/2011		0.6			
289	BOONE	BOO	USS	FFG 28	1/23/1978	3/27/1979	1/16/1980	5/6/1982	5/15/1982	30.2			
290	STEPHEN W. GROVES	SVG	USS	FFG 29	1/23/1978	9/16/1980	4/4/1981	3/5/1982	4/17/1982	30.4			
291	CROMMELIN	CRO	USS	FFG 37	4/27/1979	5/30/1980	7/2/1981	6/9/1983	6/18/1983	29.1			
292	CURTS	CUR	USS	FFG 38	4/27/1979	7/9/1981	3/6/1982	9/2/1983	10/8/1983	28.9			
293	MCCLUSKY	MCL,MCC	USS	FFG 41	4/27/1979	10/29/1981	9/18/1982	11/4/1983	12/10/1983	28.7			
294	KLAKRING	KLK	USS	FFG 42	4/27/1979	2/19/1982	9/18/1982	8/5/1983	8/20/1983	28.9			
295	DE WERT	DEV	USS	FFG 45	4/28/1980	6/14/1982	12/18/1982	11/30/1983	11/19/1983	28.7			
296	ROBERT G. BRADLEY	RGB	USS	FFG 49	4/28/1980	12/28/1982	8/13/1983	6/22/1984	6/30/1984	28.1			
297	SIMPSON	SIM	USS	FFG 56	3/22/1982	2/27/1984	8/31/1984	9/13/1985	9/21/1985	26.8			
298	RODNEY M. DAVIS	RMD	USS	FFG 60	10/28/1982	2/8/1985	1/11/1986	4/30/1987	5/9/1987	25.2			
299	SHADWELL			LSD 15	9/30/1941	1/17/1944	5/24/1944	7/24/1944	7/24/1944	68.0			
300	PHILADELPHIA	PHI		SSN 690	1/8/1971	8/12/1972	10/19/1974	6/10/1977	6/25/1977	34.1	6/29/2011		
301	MEMPHIS	MEM		SSN 691	2/14/1971	6/23/1973	4/3/1976	12/14/1977	12/17/1977	33.3		4/7/2011	
302	SHASTA	SHA		AE 33	3/8/1968	11/10/1969	4/3/1971	2/4/1972	2/26/1972	39.2		4/29/2011	
303	NASSAU	NAS		LHA 4	11/6/1970	8/16/1973	1/21/1978	6/25/1979	7/28/1979	31.8	3/31/2011		
304	CLEVELAND	CLE		LPD 7	1/25/1963	11/30/1964	5/7/1966	4/13/1967	4/29/1967	44.5	9/30/2011		
305	DUBUQUE	DUB		LPD 8	1/25/1963	1/25/1965	8/6/1966	8/21/1967	9/1/1967	43.9	6/30/2011		
306	LOS ANGELES	LAX		SSN 688	1/8/1971	1/8/1972	4/6/1974	11/21/1976	11/13/1976	34.3	2/4/2011	2/9/2010	2/4/2011
307	KITTY HAWK	KHK		CV 63	10/1/1955	12/27/1956	5/23/1960	4/9/1961	4/29/1961	48.1	5/12/2009	5/12/2009	
308	TARAWA	TAR		LHA 1	5/1/1969	11/15/1971	12/1/1973	5/14/1976	5/29/1976	32.9	3/31/2009	3/31/2009	
309	CHARLESTON			LKA 113	6/1/1965	12/5/1966	12/21/1967	12/5/1968	12/14/1968	23.4	4/27/1992		
310	DURHAM			LKA 114	6/1/1965	7/10/1967	3/23/1968	4/1/1969	5/24/1969	24.9	2/25/1994		
311	MOBILE			LKA 115	6/1/1965	9/15/1968	10/13/1968	9/1/1969	9/23/1969	24.4	2/4/1994		
312	ST. LOUIS			LKA 116	6/1/1965	4/3/1968	9/4/1968	10/1/1969	11/22/1969	23.1	11/2/1992		
313	EL PASO			LKA 117	8/22/1966	10/22/1968	5/17/1969	12/20/1969	1/17/1970	24.3	4/2/1994		
314	JUNEAU	JUN		LPD 10	5/23/1963	1/23/1965	2/12/1966	7/7/1969	7/12/1969	39.3	10/31/2008	10/31/2008	
315	NASHVILLE	NSH		LPD 13	5/15/1964	3/14/1966	10/7/1967	12/26/1969	2/14/1970	39.8	9/30/2009	9/30/2009	
316	MOUNT BAKER	MTB		AE 34	3/8/1968	10/15/1970	10/23/1971	7/6/1972	7/22/1972	24.4	12/18/1996		
317	MOHAVK			ATF 170	2/27/1978	3/22/1979	5/17/1980	10/16/1980		N/A			
318	MELVILLE			AGOR 14	9/30/1966	7/12/1967	7/10/1968	8/27/1969		N/A			
319	KNORR			AGOR 15	9/30/1966	9/9/1967	8/21/1968	1/14/1970		N/A			
320	THOMAS G. THOMPSON			AGOR 23	6/10/1988	3/29/1989	7/27/1990	7/8/1991		N/A			
321	ROGER REVELLE			AGOR 24	9/11/1993	12/9/1993	4/20/1995	6/11/1996		N/A			
322	ATLANTIS			AGOR 25	2/15/1994	8/16/1994	2/9/1996	2/25/1997		N/A			
323	KILO MOANA			AGOR 26	10/27/1999	2/9/2001	11/17/2001	9/3/2002		N/A			
324	CASSIN YOUNG			DD 793	6/14/1942	3/18/1943	9/12/1943	12/31/1943	12/31/1943	16.3	4/29/1960		12/1/1974
325	TRIPOLI			LPH 10	12/10/1962	6/15/1964	7/31/1965	7/20/1966	8/6/1966	29.2	9/15/1995		9/15/1995
326	KELLAR			AGS 25	1/18/1962	11/20/1962	7/30/1964	9/3/1963		N/A			
327	IOVA			BB 61	7/9/1939	6/27/1940	8/27/1942	3/28/1943	2/22/1943	47.6	10/26/1990		3/17/2006
328	TICONDEROGA	TICO		CG 47	9/22/1978	1/21/1980	4/25/1981	12/13/1982	1/22/1983	21.8	9/30/2004		9/30/2004
329	RANGER	RGR		CV 61	2/9/1954	8/2/1954	9/23/1956	8/9/1957	8/10/1957	35.9	7/10/1993		3/8/2004
330	JOHN F. KENNEDY	JFK		CV 67	4/30/1964	10/22/1964	5/27/1967	9/13/1968	9/7/1968	38.9	8/9/2007		10/16/2009
331	EDSON			DD 946	1/27/1956	12/31/1956	1/4/1958	10/31/1958	11/7/1958	30.1	12/15/1988		1/31/1989
332	CHARLES F. ADAMS			DDG 2	3/28/1957	6/15/1958	9/8/1959	8/31/1960	9/10/1960	29.9	8/1/1990		11/20/1992
333	SEA SHADOV			PCH 1	10/22/1982			3/1/1985		N/A			8/22/2006
334	CANON			PG 10	1/18/1965	6/28/1966	7/22/1967	7/26/1968	8/5/1968	8.5	1/31/1977		10/1/1994
335	BARRY			DD 933	12/15/1952	3/15/1954	10/1/1955	8/31/1956	7/9/1956	26.2	11/5/1982		1/31/1983
336	NAUTILUS			SSN 571	8/2/1951	6/14/1952	1/21/1954	4/22/1955	9/30/1954	24.9	3/31/1980		3/31/1980
337	KILAUEA	KIL		AE 26	3/30/1965	3/10/1966	8/31/1967	6/12/1968	8/10/1968	12.3	10/1/1980	9/15/2008	9/15/2008
338	COMSTOCK	LSD		LSD 45	12/18/1944	3/26/1945	12/17/1945	10/27/1945	11/23/1945	23.9	10/1/1992		8/18/2009

The Directory | DataTableOriginal_Dec11 | DataTableCopy | Basic PivotTable | Quick look_5030.8A Battleforce | Quick look_5030.8A NonBattleforce | Quick look_NVR Ship Battle Forces

We also added the current date to *DataTableOriginal_Dec 11* in cell D1 and the current day of the week in cell C1,[2] as shown in figure 5.

For ships no longer in the fleet. We calculated ship age for these ships based on available date information for each ship. Our preferred age calculation was for the time between the Delivery Date and the Decommission Date. If the Delivery Date was missing, we used the Commission Date instead. And if the Decommission Date was missing, we used the Inactivation Date.

For ships delivered or commissioned before 1900. Unfortunately, YEARFRAC() only works for dates on or after January 1, 1900. Quite a few ships in the database have Delivery and/or Commission Dates before 1900. For these cases, we modified a macro function available online from Microsoft Support named AgeFunc [27]. We named our modified version, AgeFuncFlt.

AgeFunc calculates the integer number of years between two dates. For our purposes, we wanted a floating point decimal result. You can find a listing of AgeFuncFlt in the Appendix.[3]

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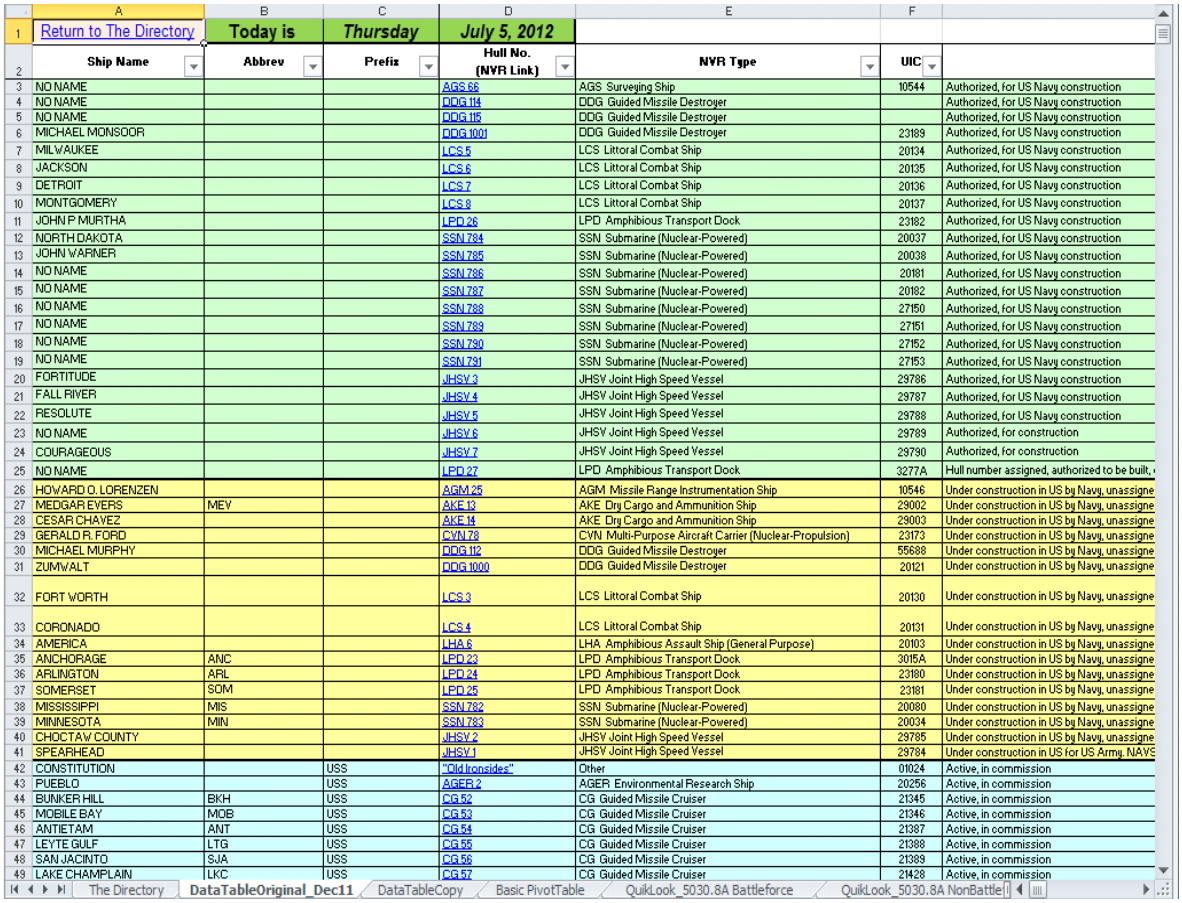
2. To determine the day of the week, we applied Excel's WEEKDAY() function to convert the date to the corresponding numerical day of the week. We then using Excel's VLOOKUP() function to determine the name of the day from the lookup table at the bottom of the DataTable-Original sheet :

	A	B
3189		
3190	**Numeric Day of Week**	**Day**
3191	1	Sunday
3192	2	Monday
3193	3	Tuesday
3194	4	Wednesday
3195	5	Thursday
3196	6	Friday
3197	7	Saturday

3. AgeFunc and AgeFuncFlt can be found as Modules 1 and 2, respectively, in the VBA project for this workbook. You can open the Microsoft Visual Basic for Applications window by clicking on the Visual Basic button on the Developer Tab or by using the keyboard shortcut: Alt+F11.

Figure 5. Day and date display in *DataTableOriginal_Dec11*



	A	B	C	D	E	F	
1	Return to The Directory	Today is	Thursday	July 5, 2012			
2	Ship Name	Abbrev	Prefix	Hull No. (NVR Link)	NVR Type	UIC	
3	NO NAME			AGS 66	AGS Surveying Ship	10544	Authorized, for US Navy construction
4	NO NAME			DDG 114	DDG Guided Missile Destroyer		Authorized, for US Navy construction
5	NO NAME			DDG 115	DDG Guided Missile Destroyer		Authorized, for US Navy construction
6	MICHAEL MONSOOR			DDG 1001	DDG Guided Missile Destroyer	23189	Authorized, for US Navy construction
7	MILWAUKEE			LCS 5	LCS Littoral Combat Ship	20134	Authorized, for US Navy construction
8	JACKSON			LCS 6	LCS Littoral Combat Ship	20135	Authorized, for US Navy construction
9	DETROIT			LCS 7	LCS Littoral Combat Ship	20136	Authorized, for US Navy construction
10	MONTGOMERY			LCS 8	LCS Littoral Combat Ship	20137	Authorized, for US Navy construction
11	JOHN P MURTHA			LPD 26	LPD Amphibious Transport Dock	23182	Authorized, for US Navy construction
12	NORTH DAKOTA			SSN 784	SSN Submarine (Nuclear-Powered)	20037	Authorized, for US Navy construction
13	JOHN WARNER			SSN 785	SSN Submarine (Nuclear-Powered)	20038	Authorized, for US Navy construction
14	NO NAME			SSN 786	SSN Submarine (Nuclear-Powered)	20181	Authorized, for US Navy construction
15	NO NAME			SSN 787	SSN Submarine (Nuclear-Powered)	20182	Authorized, for US Navy construction
16	NO NAME			SSN 788	SSN Submarine (Nuclear-Powered)	27150	Authorized, for US Navy construction
17	NO NAME			SSN 789	SSN Submarine (Nuclear-Powered)	27151	Authorized, for US Navy construction
18	NO NAME			SSN 790	SSN Submarine (Nuclear-Powered)	27152	Authorized, for US Navy construction
19	NO NAME			SSN 791	SSN Submarine (Nuclear-Powered)	27153	Authorized, for US Navy construction
20	FORTITUDE			JHSV 3	JHSV Joint High Speed Vessel	29786	Authorized, for US Navy construction
21	FALL RIVER			JHSV 4	JHSV Joint High Speed Vessel	29787	Authorized, for US Navy construction
22	RESOLUTE			JHSV 5	JHSV Joint High Speed Vessel	29788	Authorized, for US Navy construction
23	NO NAME			JHSV 6	JHSV Joint High Speed Vessel	29789	Authorized, for construction
24	COURAGEOUS			JHSV 7	JHSV Joint High Speed Vessel	29790	Authorized, for construction
25	NO NAME			LPD 27	LPD Amphibious Transport Dock	3277A	Hull number assigned, authorized to be built,
26	HOWARD O. LORENZEN			AGM 25	AGM Missile Range Instrumentation Ship	10546	Under construction in US by Navy, unassigne
27	MEDGAR EVERS	MEV		AKE 13	AKE Dry Cargo and Ammunition Ship	29002	Under construction in US by Navy, unassigne
28	CESAR CHAVEZ			AKE 14	AKE Dry Cargo and Ammunition Ship	29003	Under construction in US by Navy, unassigne
29	GERALD R. FORD			CVN 78	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	23173	Under construction in US by Navy, unassigne
30	MICHAEL MURPHY			DDG 112	DDG Guided Missile Destroyer	55688	Under construction in US by Navy, unassigne
31	ZUMWALT			DDG 1000	DDG Guided Missile Destroyer	20121	Under construction in US by Navy, unassigne
32	FORT WORTH			LCS 3	LCS Littoral Combat Ship	20130	Under construction in US by Navy, unassigne
33	CORONADO			LCS 4	LCS Littoral Combat Ship	20131	Under construction in US by Navy, unassigne
34	AMERICA			LHA 6	LHA Amphibious Assault Ship (General Purpose)	20103	Under construction in US by Navy, unassigne
35	ANCHORAGE	ANC		LPD 23	LPD Amphibious Transport Dock	3015A	Under construction in US by Navy, unassigne
36	ARLINGTON	ARL		LPD 24	LPD Amphibious Transport Dock	23180	Under construction in US by Navy, unassigne
37	SOMERSET	SOM		LPD 25	LPD Amphibious Transport Dock	23181	Under construction in US by Navy, unassigne
38	MISSISSIPPI	MIS		SSN 782	SSN Submarine (Nuclear-Powered)	20080	Under construction in US by Navy, unassigne
39	MINNESOTA	MIN		SSN 783	SSN Submarine (Nuclear-Powered)	20034	Under construction in US by Navy, unassigne
40	CHOCTAW COUNTY			JHSV 2	JHSV Joint High Speed Vessel	29785	Under construction in US by Navy, unassigne
41	SPEARHEAD			JHSV 1	JHSV Joint High Speed Vessel	29784	Under construction in US for US Army, NAVS
42	CONSTITUTION		USS	"Old Ironsides"	Other	01024	Active, in commission
43	PUEBLO		USS	AGER 2	AGER Environmental Research Ship	20256	Active, in commission
44	BUNKER HILL	BKH	USS	CG 52	CG Guided Missile Cruiser	21345	Active, in commission
45	MOBILE BAY	MOB	USS	CG 53	CG Guided Missile Cruiser	21346	Active, in commission
46	ANTIETAM	ANT	USS	CG 54	CG Guided Missile Cruiser	21387	Active, in commission
47	LEYTE GULF	LTG	USS	CG 55	CG Guided Missile Cruiser	21388	Active, in commission
48	SAN JACINTO	SJA	USS	CG 56	CG Guided Missile Cruiser	21389	Active, in commission
49	LAKE CHAMPLAIN	LKC	USS	CG 57	CG Guided Missile Cruiser	21428	Active, in commission

Comment information moved

In the past, we inserted amplifying information in cell comments. To better manage and display these comments, we moved them into the Additional Comments, References field in column AF.

Changes in the data

Routine data update

Our routine changes in this update aligned the ISDB with the Naval Vessel Register (NVR) [28 and 29], the Military Sealift Command's (MSC's) Ship Inventory [30 and 31], and the Maritime Administration's (MARAD's) National Defense Reserve Fleet (NDRF) Inventory [32 and 33] as of Dec. 31, 2011.

Changes in ship forces and counts

Our counts of ships in the Navy's 5030.8A Battleforce and the NVR Ship Battle Forces at the end of the fourth quarter of 2011 are both 285 ships, or one more than at the end of the previous quarter. The Navy took delivery of PCU San Diego (LPD 22) on Dec. 19, 2011 [34]. These counts agree with the count of 285 Battle Force Ships reported in CNO OPNOTES [35, 36].

As there were no changes in the Navy's 5030.8A Non-Battleforce during the quarter, our count remained at 55 ships. We validated this count against the numbers in the most recent Ship Annual Supplemental Data Table (SASDT) [37].

Similarly, the count of the NVR Local Defense & Miscellaneous Support Forces at the end of the quarter remained at 113 ships. Since this count is no longer published independently, we could not validate our count. Nevertheless, if we deduct the ships not included in the 5030.8A Non-Battleforce, i.e.,

- 48 ships in the MARAD-titled Ready Reserve Fleet;
- Three AOT Transport Oilers no longer regarded as RRF units by MARAD, but still counted by NVR among its Strategic Sealift Forces, and
- Seven ships chartered by MSC's Prepositioning and Sealift Programs,

the remainder of 55 ships agrees with the validated 5030.8A Non-Battleforce count.

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ISDB overview and basic instructions

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 there. We show how the database file is organized into data tables and pivot tables. And we show how to use the various features of Microsoft Excel 2010 to view and analyze the data.

Accessing the database

You can access the ISDB via CNA's web site at www.cna.org (figure 6). If you go to "Solution Centers" page (figure 7) and then to the page of the "Operations & Tactics Analysis" Division of CNA's Center for Naval Analyses (figure 8), you will see the link to the Integrated Ship Database page (figure 9). The specific URL is www.cna.org/centers/operations-tactics/ship-database.

The ISDB page presents links to the database updates for the current year. It also has a link to the Database Archive where this update is posted. Figure 10 is a view of the Archive page.

Under the 2011 updates, you can see two links for the December 2011 files: one for the Microsoft Excel Macro-Enabled Worksheet version of this update, (ISDB2011-12.xlsm); and one for the Microsoft Excel 97-2003 Worksheet version, (ISDB2011-12.xls).

With the Macro-Enabled version, you can use either Microsoft Excel 2007 or Excel 2010 in their respective full Excel modes. Excel 2003 or earlier versions will not be able to open ISDB2011-12.xlsm.

Excel 2003 will open the 97-2003 Worksheet version. Excel 2007 and Excel 2010 can open ISDB2011-12.xls, but only in Compatibility Mode. Some features will not work in Compatibility Mode. If you have the 2007 or 2010 Excel versions, we recommend you use the Macro-Enabled Worksheet file.

Figure 6. The CNA web site (www.cna.org)

Figure 7. CNA's Solution Centers

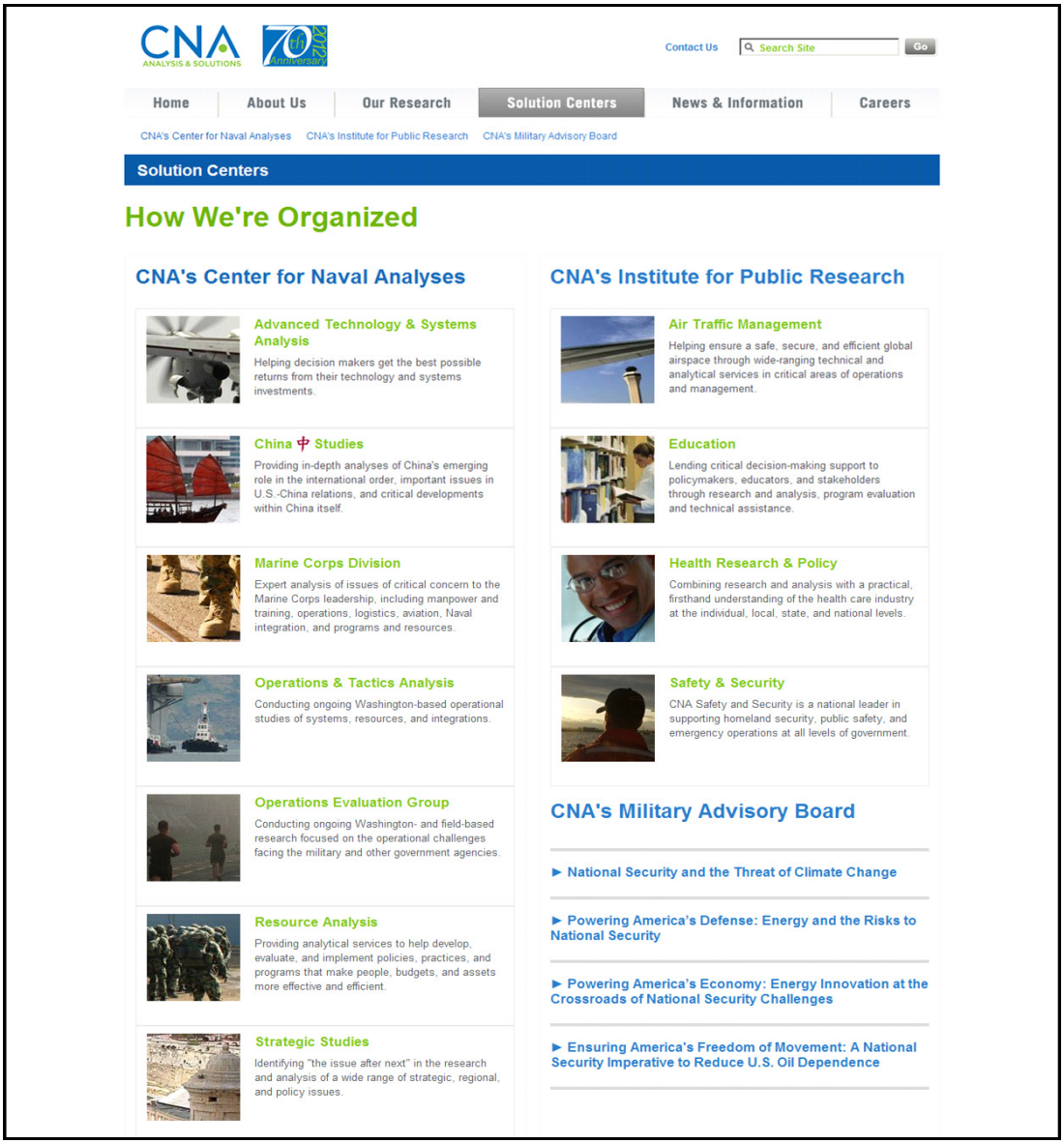


Figure 8. Operations & Tactics Analysis web page

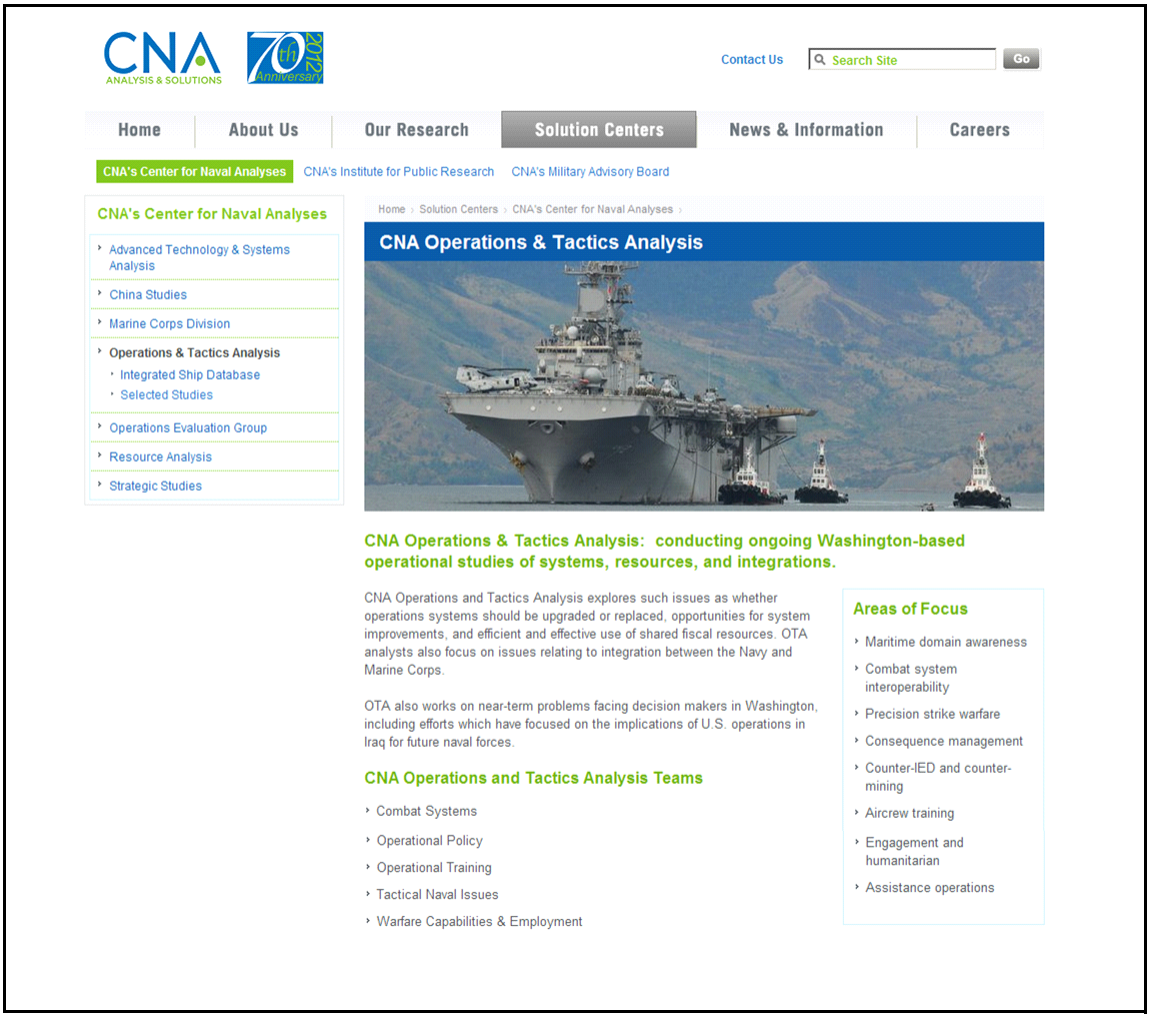


Figure 9. ISDB web page

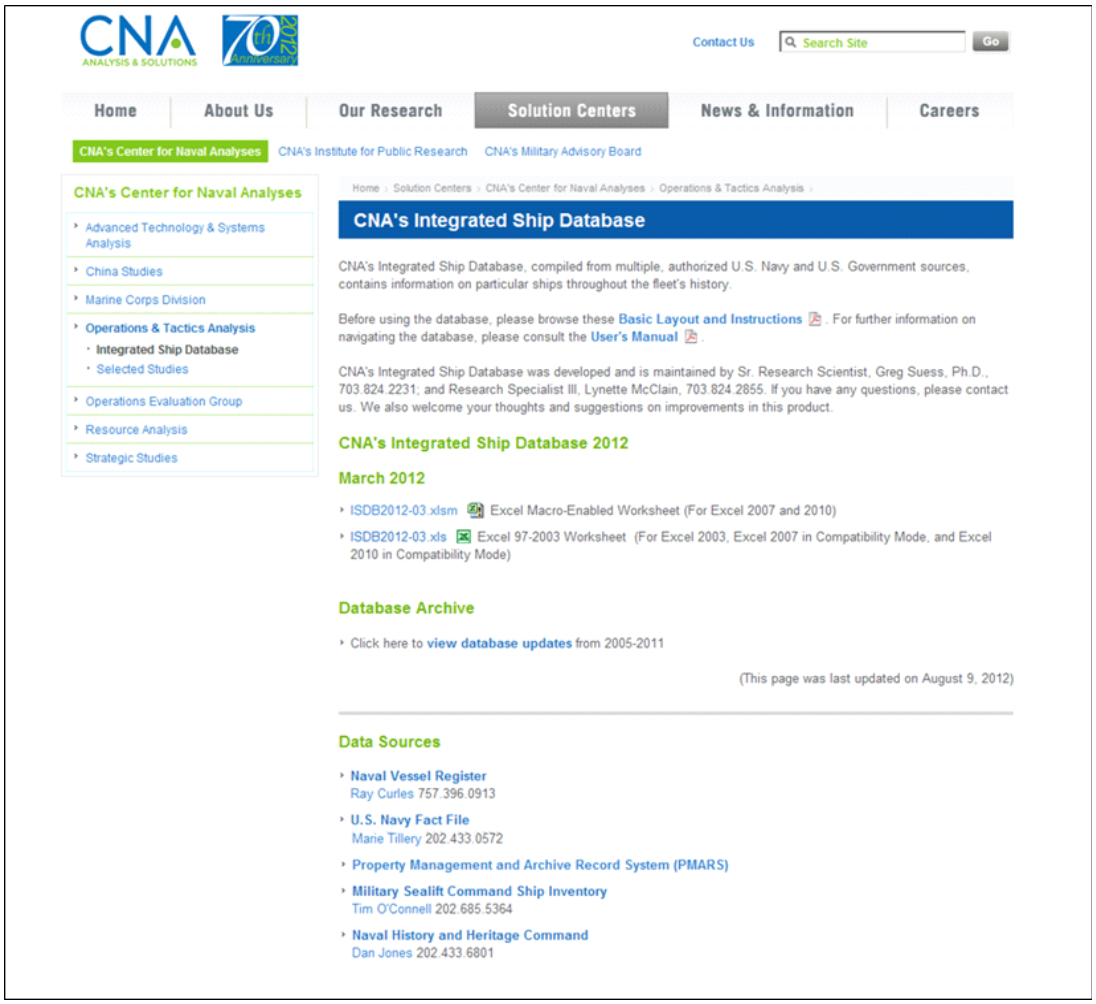
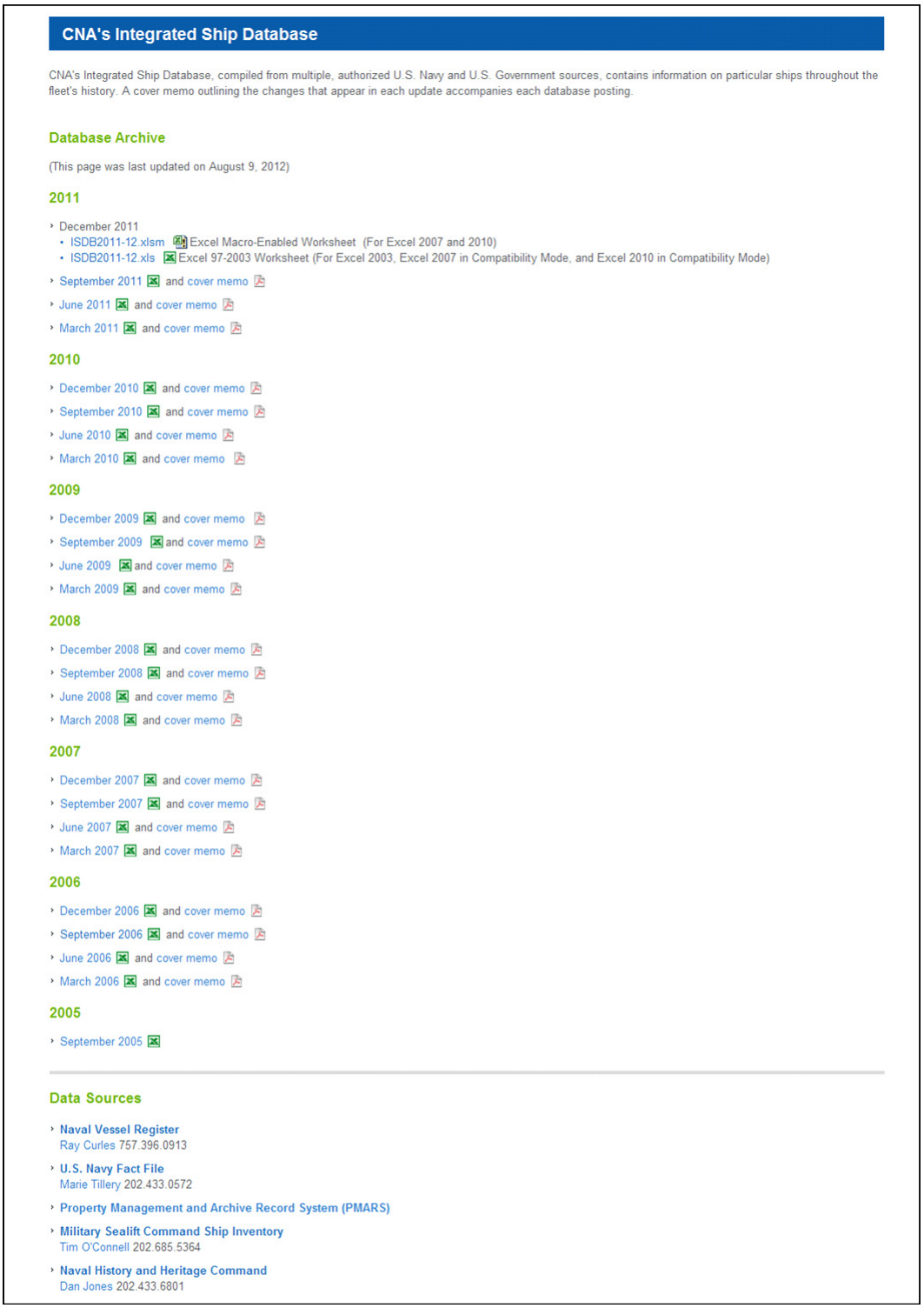


Figure 10. ISDB Database Archive web page



CNA's Integrated Ship Database

CNA's Integrated Ship Database, compiled from multiple, authorized U.S. Navy and U.S. Government sources, contains information on particular ships throughout the fleet's history. A cover memo outlining the changes that appear in each update accompanies each database posting.

Database Archive

(This page was last updated on August 9, 2012)

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)
- 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

Data Sources

- **Naval Vessel Register**
  Ray Curles 757.396.0913
- **U.S. Navy Fact File**
  Marie Tillery 202.433.0572
- **Property Management and Archive Record System (PMARS)**
- **Military Sealift Command Ship Inventory**
  Tim O'Connell 202.685.5364
- **Naval History and Heritage Command**
  Dan Jones 202.433.6801

Structure of the database file

When you first open the database file, you will see the cover of this document as in figure 1. It is the first worksheet, titled *The Document*. At the bottom of figure 1, you can see six of the ten worksheet tabs in the data file. The complete list includes:

- *The Document*
- *The Directory*
- Two data tables
  - *DataTableOriginal_Dec11*
  - *DataTableCopy*
- Six pivot tables
  - *Basic PivotTable*
  - *QuikLook_5030.8A Battleforce*
  - *QuikLook_5030.8A NonBattleforce*
  - *QuikLook_NVR Ship Battle Forces*
  - *QuikLook_NVRLocDef&MiscSptForces*
  - *Ship-Age PivotTable*

The Document and *The Directory* worksheets

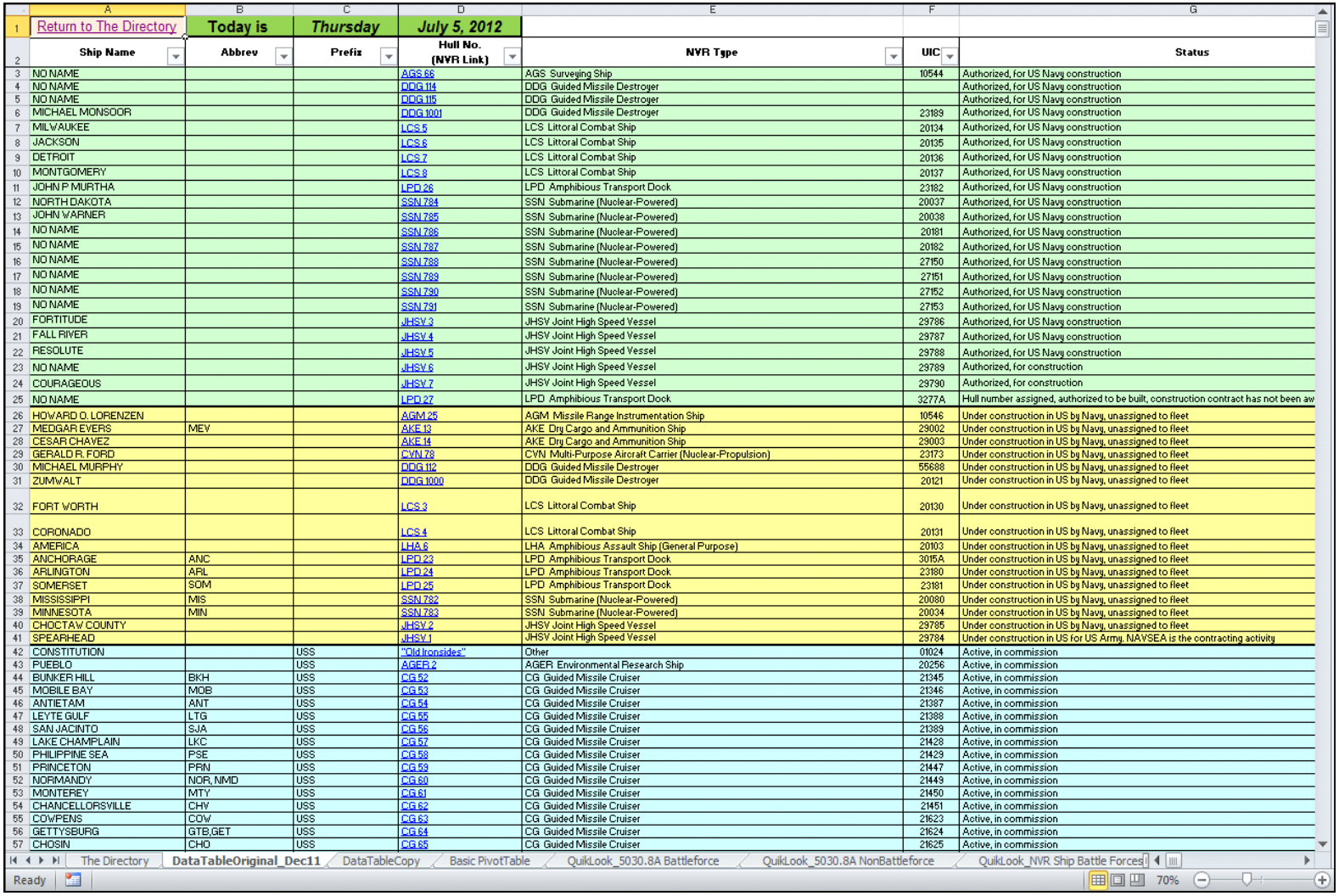
We introduced *The Document* and *The Directory* worksheets in the previous section. To avoid redundancy, we refer you to that discussion.

The data tables

DataTableOriginal_Dec11

Fields and records. Figure 11 shows the upper left corner of *DataTableOriginal_Dec11*. This sheet contains the entire ship database. It is a simple, traditional "flat file" type of database consisting of records (the rows) and fields (the columns).

Figure 11. The database — *DataTableOriginal_Dec11*



	A	B	C	D	E	F	G
1	Return to The Directory	Today is	Thursday	July 5, 2012			
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	NO NAME			DDG 114	DDG Guided Missile Destroyer		Authorized, for US Navy construction
5	NO NAME			DDG 115	DDG Guided Missile Destroyer		Authorized, for US Navy construction
6	MICHAEL MONSOOR			DDG 1001	DDG Guided Missile Destroyer	23189	Authorized, for US Navy construction
7	MILWAUKEE			LCS 5	LCS Littoral Combat Ship	20134	Authorized, for US Navy construction
8	JACKSON			LCS 6	LCS Littoral Combat Ship	20135	Authorized, for US Navy construction
9	DETROIT			LCS 7	LCS Littoral Combat Ship	20136	Authorized, for US Navy construction
10	MONTGOMERY			LCS 8	LCS Littoral Combat Ship	20137	Authorized, for US Navy construction
11	JOHN P MURTHA			LPD 26	LPD Amphibious Transport Dock	23182	Authorized, for US Navy construction
12	NORTH DAKOTA			SSN 784	SSN Submarine (Nuclear-Powered)	20037	Authorized, for US Navy construction
13	JOHN WARNER			SSN 785	SSN Submarine (Nuclear-Powered)	20038	Authorized, for US Navy construction
14	NO NAME			SSN 786	SSN Submarine (Nuclear-Powered)	20181	Authorized, for US Navy construction
15	NO NAME			SSN 787	SSN Submarine (Nuclear-Powered)	20182	Authorized, for US Navy construction
16	NO NAME			SSN 788	SSN Submarine (Nuclear-Powered)	27150	Authorized, for US Navy construction
17	NO NAME			SSN 789	SSN Submarine (Nuclear-Powered)	27151	Authorized, for US Navy construction
18	NO NAME			SSN 790	SSN Submarine (Nuclear-Powered)	27152	Authorized, for US Navy construction
19	NO NAME			SSN 791	SSN Submarine (Nuclear-Powered)	27153	Authorized, for US Navy construction
20	FORTITUDE			JHSV 3	JHSV Joint High Speed Vessel	29786	Authorized, for US Navy construction
21	FALL RIVER			JHSV 4	JHSV Joint High Speed Vessel	29787	Authorized, for US Navy construction
22	RESOLUTE			JHSV 5	JHSV Joint High Speed Vessel	29788	Authorized, for US Navy construction
23	NO NAME			JHSV 6	JHSV Joint High Speed Vessel	29789	Authorized, for construction
24	COURAGEOUS			JHSV 7	JHSV Joint High Speed Vessel	29790	Authorized, for construction
25	NO NAME			LPD 27	LPD Amphibious Transport Dock	3277A	Hull number assigned, authorized to be built, construction contract has not been aw
26	HOWARD O. LORENZEN			AGM 25	AGM Missile Range Instrumentation Ship	10546	Under construction in US by Navy, unassigned to fleet
27	MEDGAR EVERS	MEV		AKE 13	AKE Dry Cargo and Ammunition Ship	29002	Under construction in US by Navy, unassigned to fleet
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
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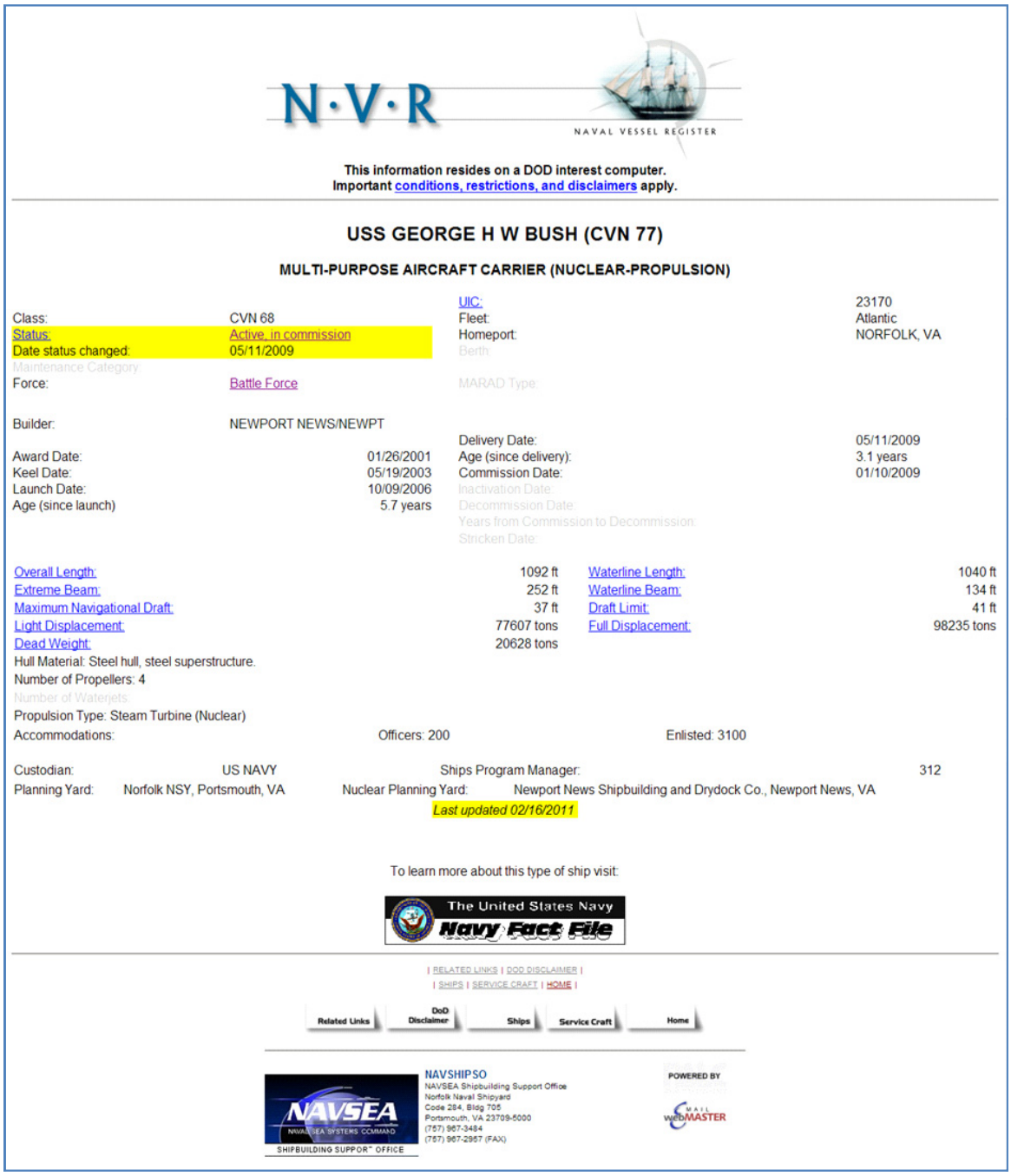
31	ZUMWALT			DDG 1000	DDG Guided Missile Destroyer	20121	Under construction in US by Navy, unassigned to fleet
32	FORT WORTH			LCS 3	LCS Littoral Combat Ship	20130	Under construction in US by Navy, unassigned to fleet
33	CORONADO			LCS 4	LCS Littoral Combat Ship	20131	Under construction in US by Navy, unassigned to fleet
34	AMERICA			LHA 6	LHA Amphibious Assault Ship (General Purpose)	20103	Under construction in US by Navy, unassigned to fleet
35	ANCHORAGE	ANC		LPD 23	LPD Amphibious Transport Dock	3015A	Under construction in US by Navy, unassigned to fleet
36	ARLINGTON	ARL		LPD 24	LPD Amphibious Transport Dock	23180	Under construction in US by Navy, unassigned to fleet
37	SOMERSET	SOM		LPD 25	LPD Amphibious Transport Dock	23181	Under construction in US by Navy, unassigned to fleet
38	MISSISSIPPI	MIS		SSN 782	SSN Submarine (Nuclear-Powered)	20080	Under construction in US by Navy, unassigned to fleet
39	MINNESOTA	MIN		SSN 783	SSN Submarine (Nuclear-Powered)	20034	Under construction in US by Navy, unassigned to fleet
40	CHOCTAW COUNTY			JHSV 2	JHSV Joint High Speed Vessel	29785	Under construction in US by Navy, unassigned to fleet
41	SPEARHEAD			JHSV 1	JHSV Joint High Speed Vessel	29784	Under construction in US for US Army. NAVSEA is the contracting activity
42	CONSTITUTION		USS	"Old Ironsides"	Other	01024	Active, in commission
43	PUEBLO		USS	AGER 2	AGER Environmental Research Ship	20256	Active, in commission
44	BUNKER HILL	BKH	USS	CG 52	CG Guided Missile Cruiser	21345	Active, in commission
45	MOBILE BAY	MOB	USS	CG 53	CG Guided Missile Cruiser	21346	Active, in commission
46	ANTIETAM	ANT	USS	CG 54	CG Guided Missile Cruiser	21387	Active, in commission
47	LEYTE GULF	LTG	USS	CG 55	CG Guided Missile Cruiser	21388	Active, in commission
48	SAN JACINTO	SJA	USS	CG 56	CG Guided Missile Cruiser	21389	Active, in commission
49	LAKE CHAMPLAIN	LKC	USS	CG 57	CG Guided Missile Cruiser	21428	Active, in commission
50	PHILIPPINE SEA	PSE	USS	CG 58	CG Guided Missile Cruiser	21429	Active, in commission
51	PRINCETON	PRN	USS	CG 59	CG Guided Missile Cruiser	21447	Active, in commission
52	NORMANDY	NOR, NMD	USS	CG 60	CG Guided Missile Cruiser	21449	Active, in commission
53	MONTEREY	MTY	USS	CG 61	CG Guided Missile Cruiser	21450	Active, in commission
54	CHANCELLORSVILLE	CHV	USS	CG 62	CG Guided Missile Cruiser	21451	Active, in commission
55	COWPENS	COW	USS	CG 63	CG Guided Missile Cruiser	21623	Active, in commission
56	GETTYSBURG	GTB,GET	USS	CG 64	CG Guided Missile Cruiser	21624	Active, in commission
57	CHOSIN	CHO	USS	CG 65	CG Guided Missile Cruiser	21625	Active, in commission

A record or row contains information about a particular ship unit. The specific information about the unit resides in the fields or columns. The fields in *DataTableOriginal_Dec11* are:

- Column A: Ship Name
- Column B: Abbreviation
- Column C: Prefix
- Column D: Hull No. (NVR Link)[4]
  The links in this field are to the individual ship pages in the NVR. For example, figure 12 is the linked page for USS *George H W Bush* (CVN 77).
- Column E: NVR Type
- Column F: UIC
  (i.e., Unit Identification Code)
- Column G: Status
- Column H: Date Status Changed
- Column I: Class (Navy Fact File Links)
  These links go to the descriptive ship type and class information of the Navy Fact File on the Official Website of the Navy, *America's Navy*. Figure 13 shows the Fact File page for aircraft carriers.
- Column J: NVR Force
  Links to the various Forces reported in the NVR, i.e., Battle Forces, Support Forces, Auxiliary Ships, Strategic Sealift Forces, Mobilization Forces, Category A Assets, and Mobilization Forces, Category B Assets.
- Column K: 5030.8A Force
- Column L: 5030.8A Ship Category
- Column M: 5030.8A Ship Classification
- Column N: 5030.8A Ship Type

4. In this list, we highlight fields containing hypertext links in the same font style as the cells in the database, i.e., by blue, underlined text.

Figure 12. NVR page for USS *George H W Bush* (CVN 77) [38]



N·V·R

NAVAL VESSEL REGISTER

This information resides on a DOD interest computer.
Important conditions, restrictions, and disclaimers apply.

USS GEORGE H W BUSH (CVN 77)

MULTI-PURPOSE AIRCRAFT CARRIER (NUCLEAR-PROPULSION)

Class:	CVN 68	UIC:	23170
Status:	Active, in commission	Fleet:	Atlantic
Date status changed:	05/11/2009	Homeport:	NORFOLK, VA
Maintenance Category:		Berth:	
Force:	Battle Force	MARAD Type:	
Builder:	NEWPORT NEWS/NEWPT		
		Delivery Date:	05/11/2009
Award Date:	01/26/2001	Age (since delivery):	3.1 years
Keel Date:	05/19/2003	Commission Date:	01/10/2009
Launch Date:	10/09/2006	Inactivation Date:	
Age (since launch)	5.7 years	Decommission Date:	
		Years from Commission to Decommission:	
		Stricken Date:	

Overall Length:	1092 ft	Waterline Length:	1040 ft
Extreme Beam:	252 ft	Waterline Beam:	134 ft
Maximum Navigational Draft:	37 ft	Draft Limit:	41 ft
Light Displacement:	77607 tons	Full Displacement:	98235 tons
Dead Weight:	20628 tons		

Hull Material: Steel hull, steel superstructure.
Number of Propellers: 4
Number of Waterjets:
Propulsion Type: Steam Turbine (Nuclear)
Accommodations: Officers: 200 Enlisted: 3100

Custodian: US NAVY Ships Program Manager: 312
Planning Yard: Norfolk NSY, Portsmouth, VA Nuclear Planning Yard: Newport News Shipbuilding and Drydock Co., Newport News, VA

Last updated 02/16/2011

To learn more about this type of ship visit:

The United States Navy Navy Fact File

| RELATED LINKS | DOD DISCLAIMER |
| SHIPS | SERVICE CRAFT | HOME |

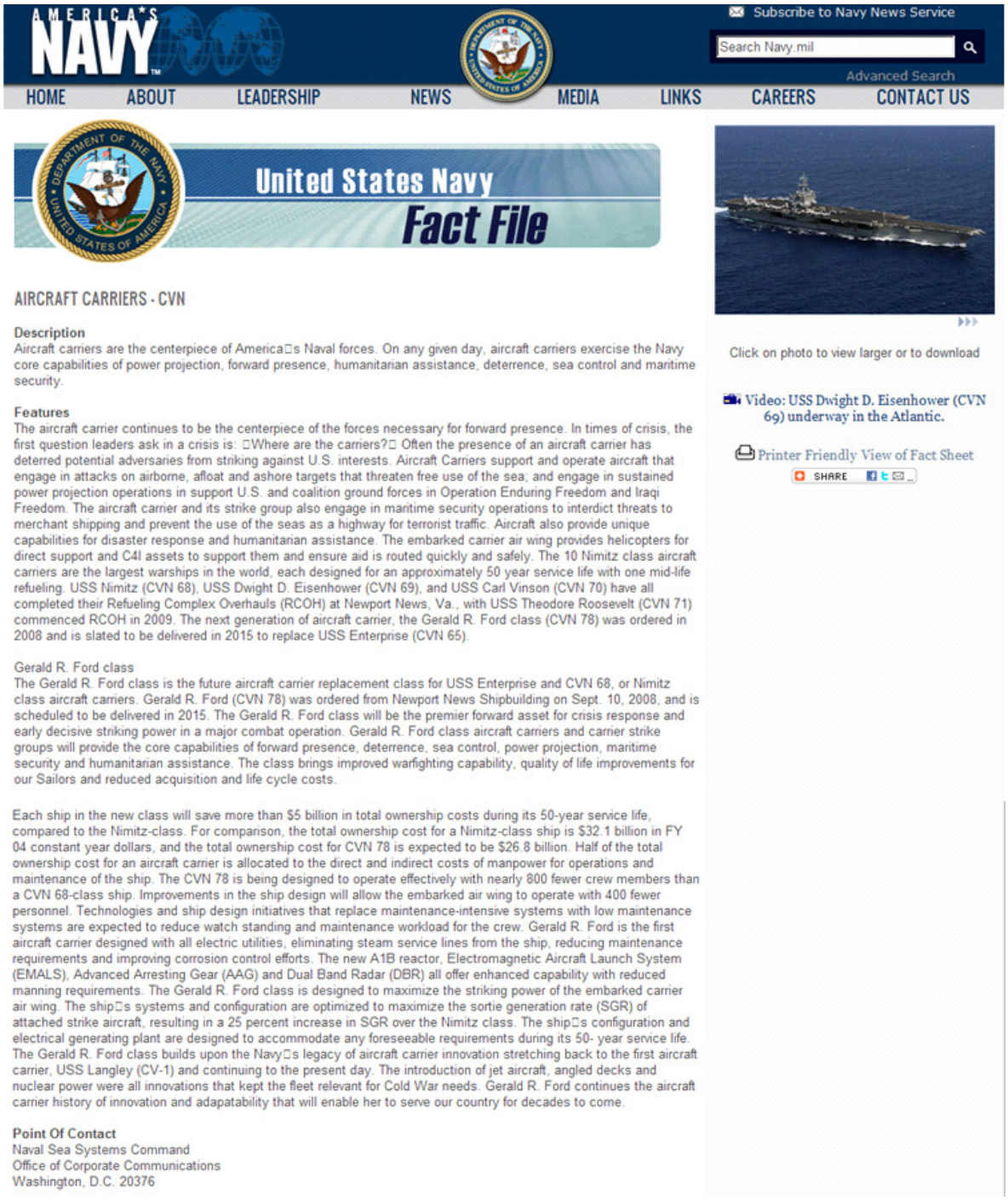
Related Links | DoD Disclaimer | Ships | Service Craft | Home

NAVSEA NAVAL SEA SYSTEMS COMMAND SHIPBUILDING SUPPORT OFFICE

NAVSHIPSO
NAVSEA Shipbuilding Support Office
Norfolk Naval Shipyard
Code 284, Bldg 705
Portsmouth, VA 23709-5000
(757) 967-3484
(757) 967-2957 (FAX)

POWERED BY WEBMASTER

Figure 13. Navy Fact File page for aircraft carriers [39]



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United States Navy

Fact File

AIRCRAFT CARRIERS - CVN

Description

Aircraft carriers are the centerpiece of America□s Naval forces. On any given day, aircraft carriers exercise the Navy core capabilities of power projection, forward presence, humanitarian assistance, deterrence, sea control and maritime security.

Features

The aircraft carrier continues to be the centerpiece of the forces necessary for forward presence. In times of crisis, the first question leaders ask in a crisis is: □Where are the carriers?□ Often the presence of an aircraft carrier has deterred potential adversaries from striking against U.S. interests. Aircraft Carriers support and operate aircraft that engage in attacks on airborne, afloat and ashore targets that threaten free use of the sea; and engage in sustained power projection operations in support U.S. and coalition ground forces in Operation Enduring Freedom and Iraqi Freedom. The aircraft carrier and its strike group also engage in maritime security operations to interdict threats to merchant shipping and prevent the use of the seas as a highway for terrorist traffic. Aircraft also provide unique capabilities for disaster response and humanitarian assistance. The embarked carrier air wing provides helicopters for direct support and C4I assets to support them and ensure aid is routed quickly and safely. The 10 Nimitz class aircraft carriers are the largest warships in the world, each designed for an approximately 50 year service life with one mid-life refueling. USS Nimitz (CVN 68), USS Dwight D. Eisenhower (CVN 69), and USS Carl Vinson (CVN 70) have all completed their Refueling Complex Overhauls (RCOH) at Newport News, Va., with USS Theodore Roosevelt (CVN 71) commenced RCOH in 2009. The next generation of aircraft carrier, the Gerald R. Ford class (CVN 78) was ordered in 2008 and is slated to be delivered in 2015 to replace USS Enterprise (CVN 65).

Gerald R. Ford class

The Gerald R. Ford class is the future aircraft carrier replacement class for USS Enterprise and CVN 68, or Nimitz class aircraft carriers. Gerald R. Ford (CVN 78) was ordered from Newport News Shipbuilding on Sept. 10, 2008, and is scheduled to be delivered in 2015. The Gerald R. Ford class will be the premier forward asset for crisis response and early decisive striking power in a major combat operation. Gerald R. Ford class aircraft carriers and carrier strike groups will provide the core capabilities of forward presence, deterrence, sea control, power projection, maritime security and humanitarian assistance. The class brings improved warfighting capability, quality of life improvements for our Sailors and reduced acquisition and life cycle costs.

Each ship in the new class will save more than $5 billion in total ownership costs during its 50-year service life, compared to the Nimitz-class. For comparison, the total ownership cost for a Nimitz-class ship is $32.1 billion in FY 04 constant year dollars, and the total ownership cost for CVN 78 is expected to be $26.8 billion. Half of the total ownership cost for an aircraft carrier is allocated to the direct and indirect costs of manpower for operations and maintenance of the ship. The CVN 78 is being designed to operate effectively with nearly 800 fewer crew members than a CVN 68-class ship. Improvements in the ship design will allow the embarked air wing to operate with 400 fewer personnel. Technologies and ship design initiatives that replace maintenance-intensive systems with low maintenance systems are expected to reduce watch standing and maintenance workload for the crew. Gerald R. Ford is the first aircraft carrier designed with all electric utilities, eliminating steam service lines from the ship, reducing maintenance requirements and improving corrosion control efforts. The new A1B reactor, Electromagnetic Aircraft Launch System (EMALS), Advanced Arresting Gear (AAG) and Dual Band Radar (DBR) all offer enhanced capability with reduced manning requirements. The Gerald R. Ford class is designed to maximize the striking power of the embarked carrier air wing. The ship□s systems and configuration are optimized to maximize the sortie generation rate (SGR) of attached strike aircraft, resulting in a 25 percent increase in SGR over the Nimitz class. The ship□s configuration and electrical generating plant are designed to accommodate any foreseeable requirements during its 50- year service life. The Gerald R. Ford class builds upon the Navy□s legacy of aircraft carrier innovation stretching back to the first aircraft carrier, USS Langley (CV-1) and continuing to the present day. The introduction of jet aircraft, angled decks and nuclear power were all innovations that kept the fleet relevant for Cold War needs. Gerald R. Ford continues the aircraft carrier history of innovation and adapatability that will enable her to serve our country for decades to come.

Point Of Contact

Naval Sea Systems Command
Office of Corporate Communications
Washington, D.C. 20376

Click on photo to view larger or to download

Video: USS Dwight D. Eisenhower (CVN 69) underway in the Atlantic.

Printer Friendly View of Fact Sheet

SHARE

Figure 13. Navy Fact File page for aircraft carriers [39] (continued)

General Characteristics, *Nimitz* class
Builder: Newport News Shipbuilding Co., Newport News, Va.
Date Deployed: May 3, 1975 (*USS Nimitz*).
Unit Cost: About $4.5 billion each.
Propulsion: Two nuclear reactors, four shafts.
Length: 1,092 feet (332.85 meters).
Beam: 134 feet (40.84 meters); Flight Deck Width: 252 feet (76.8 meters).
Displacement: Approximately 97,000 tons (87,996.9 metric tons) full load.
Speed: 30+ knots (34.5+ miles per hour).
Crew: Ship's Company: 3,000-3,200, air wing: 1,500, other: 500.
Armament: Multiple NATO *Sea Sparrow*, *Phalanx* CIWS, and Rolling Airframe Missile (RAM) mounts.
Aircraft: Approximately 60+.
Ships:
USS Nimitz (CVN 68), Bremerton, Wash.
USS Dwight D. Eisenhower (CVN 69), Norfolk, Va.
USS Carl Vinson (CVN 70), San Diego, Calif.
USS Theodore Roosevelt (CVN 71), Norfolk, Va.
USS Abraham Lincoln (CVN 72), Everett, Wash.
USS George Washington (CVN 73), Yokosuka, Japan
USS John C. Stennis (CVN 74), Bremerton, Wash.
USS Harry S. Truman (CVN 75), Norfolk, Va.
USS Ronald Reagan (CVN 76), San Diego, Calif.
USS George H.W. Bush (CVN 77), Norfolk, Va.

General Characteristics, *Enterprise* class
Builder: Newport News Shipbuilding Co., Newport News, Va.
Date Deployed: November 25, 1961 (USS Enterprise).
Propulsion: Eight nuclear reactors, four shafts.
Length: 1,101 feet 2 inches (335.64 meters).
Beam: 133 feet (39.9 meters); 252 feet (75.6 meters).
Displacement: 89,600 tons (81,283.8 metric tons) full load.
Speed: 30+ knots (34.5 miles per hour).
Crew: Ship's Company: 3,350 - Air Wing 2,480.
Armament: Multiple NATO Sea Sparrow, Phalanx CIWS, and rolling Airframe Missile (RAM) mounts.
Aircraft: Approximately 60+.
Ships:
USS Enterprise (CVN 65), Norfolk, VA

General Characteristics, *Gerald R. Ford* class
Builder: Newport News Shipbuilding, Newport News, Va.
Propulsion: Two nuclear reactors, four shafts.
Length: 1,092 feet
Beam: 134 feet, Flight Deck Width: 256 feet.
Displacement: approximately 100,000 long tons full load.
Speed: 30+ knots (34.5 miles per hour)
Crew: 4,660 (ship, air wing and staff).
Armament: Evolved Sea Sparrow Missile, Rolling Airframe Missile, CIWS.
Aircraft: 75+.
Ships:
PCU Gerald R. Ford (CVN 78)
PCU John F. Kennedy (CVN 79)

Last Update: 6 January 2012

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About: Status of the Navy; Navy Organization; Command Directory; Our Ships; Fact Files; Today in Naval History; FAQ

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Links: Shift Colors-Navy Retiree Newsletter; Affected Navy Family Assistance; Navy / Marine Corps Relief; Military One Source; Navy Office of Community Outreach; Naval History & Heritage Command; Navy Personnel Command; Navy Knowledge Online; Pentagon Channel; U.S. Army; U.S. Air Force; U.S. Marine Corps; U.S. Coast Guard; Navy Reserve; Defense.gov; Joint Chiefs of Staff

Chief of Information

- Column O: MSC Ship Link
  These links go to MSC's individual ship pages, such as that for USNS *Comfort* (T-AH 20) in figure 14.

- Column P: MSC Type (MSC Fact Sheet Link)
  Links to MSC's Fact Sheets on the various ship types. Figure 15 shows the Fact Sheet for Hospital Ships.

- Column Q: MARAD NDRF Program-Type / Status (PMARS Link)
  These inactive links were for MARAD's former Property Management & Archives System (PMARS) ship data pages. That systems has been suspended pending replacement. We have retained the former links for the historical record.

- Column R: DANFS Entry (NHHC Link)
  These links go to the Dictionary of American Naval Fighting Ships (DANFS) pages of the Naval History & Heritage Command (NHHC). Figure 16 shows the top portion of the DANFS page for USS *Enterprise* (CVN 65).

- Column S: Ship History Report (NHHC Link)
  These links take you to the NHHC's index pages for ships with annual Ship History Reports. Figure 17 is the index page for USS *Enterprise* (CVN 65). Figure 18 shows a page from USS *Enterprise*'s Command Operations Report for 2005.)

- Column T: Homeport (NVR Link)
  These links take you to NVR's full list of ships in the respective homeports. See figure 19 for a sample list of ships homeported in Norfolk, VA.

- Column U: Previous, Other Names

- Column V: Award Date

- Column W: Keel Date

- Column X: Launch Date

- Column Y: Delivery Date

Figure 14. MSC Ship Inventory page for USNS *Comfort* (T-AH 20) [40]

Military Sealift Command
Ship Inventory

Home | Latest News | MSC Overview | Commander | Organization | Ship Inventory | Employment | CIVMAR | Contracts

USNS COMFORT (T-AH 20)
Hospital Ship

USNS Comfort Fact Sheet

USNS Comfort is one of Military Sealift Command's two Hospital Ships and one of the 15 ships in Military Sealift Command's Service Support Program.

- **Length:** 894 feet
- **Beam:** 106 feet
- **Draft:** 33 feet
- **Displacement:** 69,360 long tons
- **Speed:** 17.5 knots
- **Status:** Reduced Operating Status (5)
- **Civilian:** 18 ROS/65 FOS civil service mariners
- **Military:** 60 ROS/1,215 FOS
- **Government-Owned/ Chartered:** Government-owned

Click on image at left for larger picture.

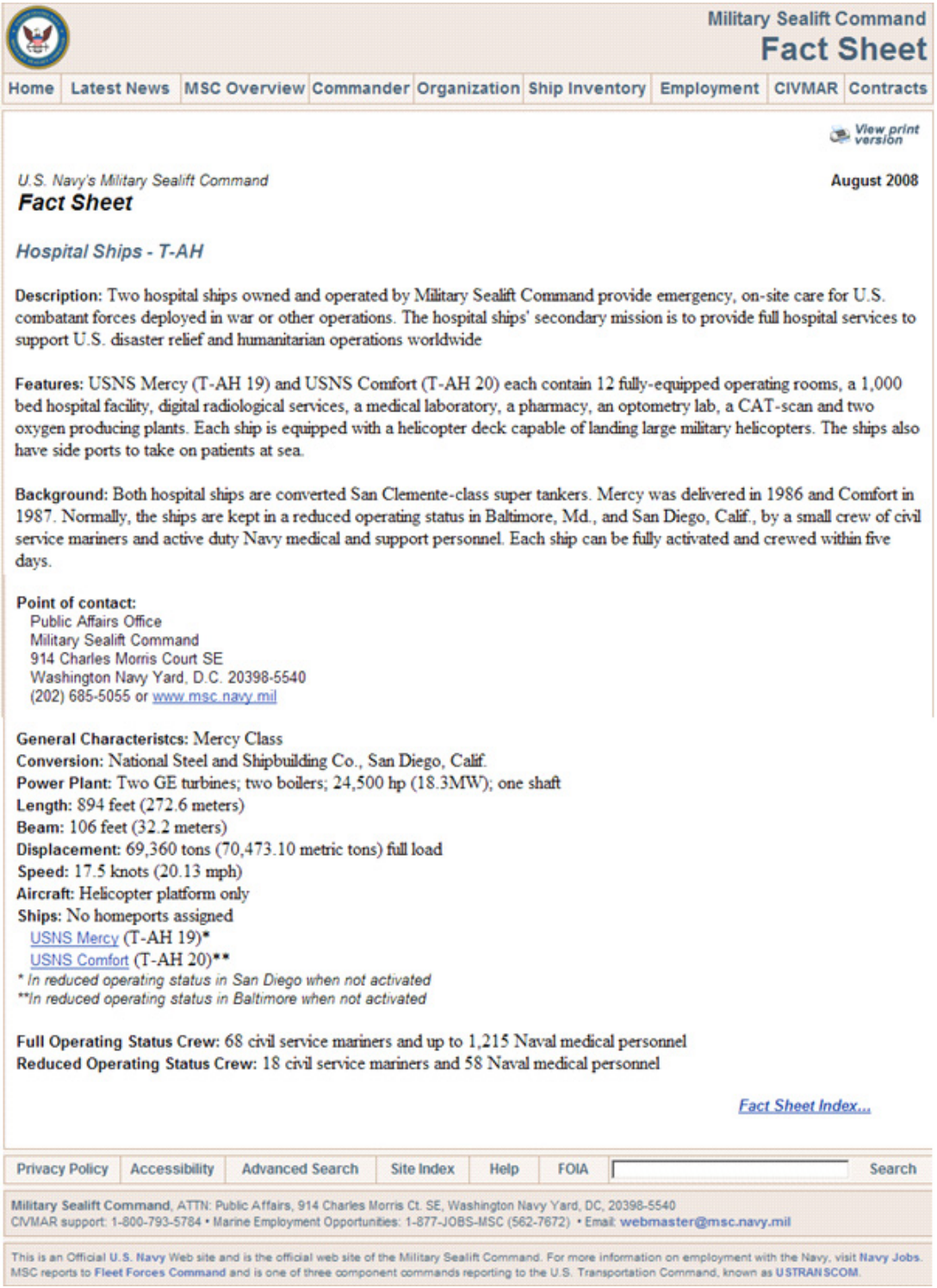
Return to ship inventory main page *Glossary of Terms*

This vessel is operated by the U.S. government and used only on non-commercial government service.

View print version

Last modified: June 23, 2010

Figure 15. MSC Fact Sheet for Hospital Ships [41]



Military Sealift Command
Fact Sheet

Home | Latest News | MSC Overview | Commander | Organization | Ship Inventory | Employment | CIVMAR | Contracts

View print version

U.S. Navy's Military Sealift Command

August 2008

Fact Sheet

Hospital Ships - T-AH

Description: Two hospital ships owned and operated by Military Sealift Command provide emergency, on-site care for U.S. combatant forces deployed in war or other operations. The hospital ships' secondary mission is to provide full hospital services to support U.S. disaster relief and humanitarian operations worldwide

Features: USNS Mercy (T-AH 19) and USNS Comfort (T-AH 20) each contain 12 fully-equipped operating rooms, a 1,000 bed hospital facility, digital radiological services, a medical laboratory, a pharmacy, an optometry lab, a CAT-scan and two oxygen producing plants. Each ship is equipped with a helicopter deck capable of landing large military helicopters. The ships also have side ports to take on patients at sea.

Background: Both hospital ships are converted San Clemente-class super tankers. Mercy was delivered in 1986 and Comfort in 1987. Normally, the ships are kept in a reduced operating status in Baltimore, Md., and San Diego, Calif., by a small crew of civil service mariners and active duty Navy medical and support personnel. Each ship can be fully activated and crewed within five days.

Point of contact:
Public Affairs Office
Military Sealift Command
914 Charles Morris Court SE
Washington Navy Yard, D.C. 20398-5540
(202) 685-5055 or www.msc.navy.mil

General Characteristcs: Mercy Class
Conversion: National Steel and Shipbuilding Co., San Diego, Calif.
Power Plant: Two GE turbines; two boilers; 24,500 hp (18.3MW); one shaft
Length: 894 feet (272.6 meters)
Beam: 106 feet (32.2 meters)
Displacement: 69,360 tons (70,473.10 metric tons) full load
Speed: 17.5 knots (20.13 mph)
Aircraft: Helicopter platform only
Ships: No homeports assigned
USNS Mercy (T-AH 19)*
USNS Comfort (T-AH 20)**
** In reduced operating status in San Diego when not activated*
***In reduced operating status in Baltimore when not activated*

Full Operating Status Crew: 68 civil service mariners and up to 1,215 Naval medical personnel
Reduced Operating Status Crew: 18 civil service mariners and 58 Naval medical personnel

Fact Sheet Index...

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Military Sealift Command, ATTN: Public Affairs, 914 Charles Morris Ct. SE, Washington Navy Yard, DC, 20398-5540
CIVMAR support: 1-800-793-5784 • Marine Employment Opportunities: 1-877-JOBS-MSC (562-7672) • Email: webmaster@msc.navy.mil

This is an Official U.S. Navy Web site and is the official web site of the Military Sealift Command. For more information on employment with the Navy, visit Navy Jobs.
MSC reports to Fleet Forces Command and is one of three component commands reporting to the U.S. Transportation Command, known as USTRANSCOM.

Figure 16. Top portion of NHHC's DANFS page for USS *Enterprise* (CVN 65) [42]

DANFS Index Naval History & Heritage Command home

DICTIONARY of American Naval Fighting Ships

NAVAL HISTORY & HERITAGE ★ COMMAND ★

DEPARTMENT OF THE NAVY -- NAVAL HISTORY & HERITAGE COMMAND

Enterprise

The eighth *Enterprise* (CVA(N)-65) was named in honor of the seventh *Enterprise* (CV-6) and her predecessor ships of that name.

VIII

(CVA(N)-65: displacement 85,600 tons (full load); length 1101'; beam 133'; extreme width 252'; draft 35'; speed 30+ knots; complement 4,600; class *Enterprise*)

Related Resource:

Video - An Answer: JFK Visits the Atlantic Fleet (1962)

History: 1961-1965

The eighth *Enterprise* (CVA(N)-65) - the world's first nuclear-powered aircraft carrier – was laid down on 4 February 1958 at Newport News, Va., by the Newport News Shipbuilding and Dry Dock Co.; launched on 24 September 1960; sponsored by Mrs. William B. Franke, wife of the Secretary of the Navy; and commissioned on 25 November 1961, Captain Vincent P. de Poix in command.

After commissioning, *Enterprise* began a lengthy series of tests and training exercises, designed to determine her full capabilities. Beginning six days of builder's and Navy pre-acceptance trials on 29 October 1961, she exceeded expectations, her reactors generating such horsepower that she "literally out-ran her destroyer escort."

Lieutenant Commander Oscar Folsom, Jr., Fleet Tactical Support Squadron (VRC)-40, became the first to fly from the ship's flight deck, transporting dignitaries, who had embarked to witness the sea trials, to shore in a Grumman C-1A *Trader*. *Enterprise* returned to port with a huge broom tied to her masthead, the traditional symbol of victory at sea, proclaiming a "clean sweep."

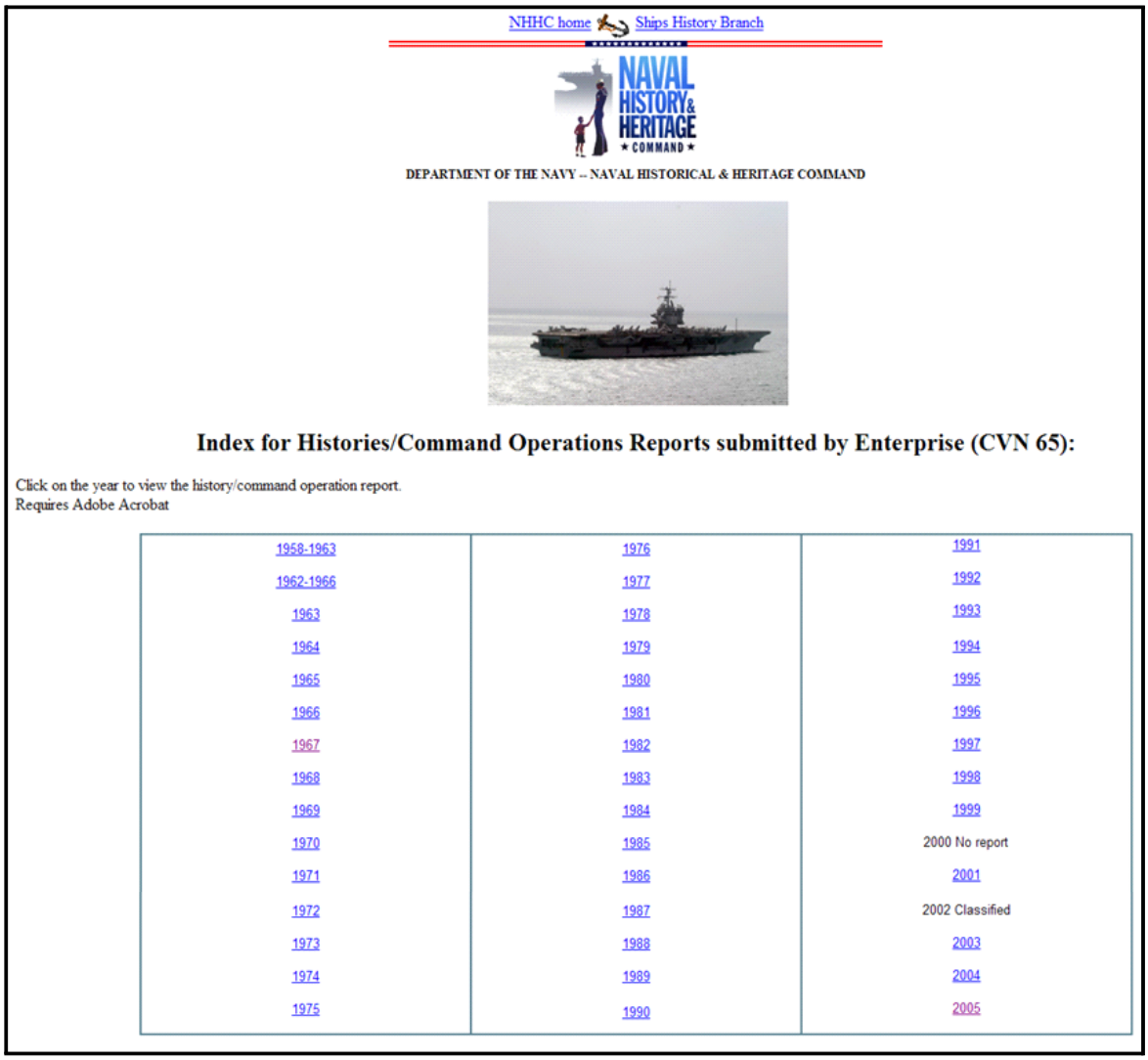
Enterprise went to sea for the first time as a commissioned ship for her shakedown cruise, on 12 January 1962, on that date also being announced as the flagship of Nuclear Task Force (TF) One.During this period she began fleet flight operations, when Commander George C. Talley, Jr., Commander Air Group (CAG), Carrier Air Group (CVG)-1 (Tail Code AB), made an arrested landing and catapult launch in an Ling Temco Vought F-8B *Crusader* (BuNo 145375) from Fighter Squadron (VF) 62 on 17 January.

After completing carrier qualifications (carquals), *Enterprise* was privileged to play a role in the space age, putting to sea for ten days as part of the Project *Mercury* Recovery Force off Bermuda. Three carriers, including *The Big E*, patrolled the most likely areas for reentry and impact of the capsule, but unforeseen delays postponed that second attempt to send a man into space and the ship returned to Norfolk.

The following weeks proved busy ones. On 5 February *Enterprise* sailed for the Caribbean and Guantánamo Bay, Cuba, for her shakedown with elements of CVG-1, including VF-62 (F-8Bs) and VF-102 (F-4Bs), Attack Squadron (VA)-15 (Douglas A-1H *Skyraiders*), VA-64 and VA-172 (McDonnell Douglas A-4C *Skyhawks*), Light Photographic Reconnaissance Squadron (VFP)-62 Detachment (Det) 60 (RF-8A *Crusaders*) and Carrier Airborne Early Warning Squadron (VAW)-12 Det 60 (Grumman E-1B *Tracers*) embarked.

In addition, en route to the Caribbean she paused at Mayport, Florida, to embark Heavy Attack Squadron (VAH)-7 (North American A-5A *Vigilantes*). On 15 February the ship logged her 1,000th

Figure 17. NHHC Command Operations/Ship History index page for USS *Enterprise* [43]



NHHC home Ships History Branch

NAVAL HISTORY & HERITAGE COMMAND

DEPARTMENT OF THE NAVY -- NAVAL HISTORICAL & HERITAGE COMMAND

Index for Histories/Command Operations Reports submitted by Enterprise (CVN 65):

Click on the year to view the history/command operation report.
Requires Adobe Acrobat

1958-1963	1976	1991
1962-1966	1977	1992
1963	1978	1993
1964	1979	1994
1965	1980	1995
1966	1981	1996
1967	1982	1997
1968	1983	1998
1969	1984	1999
1970	1985	2000 No report
1971	1986	2001
1972	1987	2002 Classified
1973	1988	2003
1974	1989	2004
1975	1990	2005

Figure 18. Sample from USS *Enterprise* Command Operations Report for 2005 [44]

UNCLASSIFIED

Subj: USS ENTERPRISE -- 2005 COMMAND OPERATIONS REPORT

OPERATIONS DEPARTMENT

Air Operations

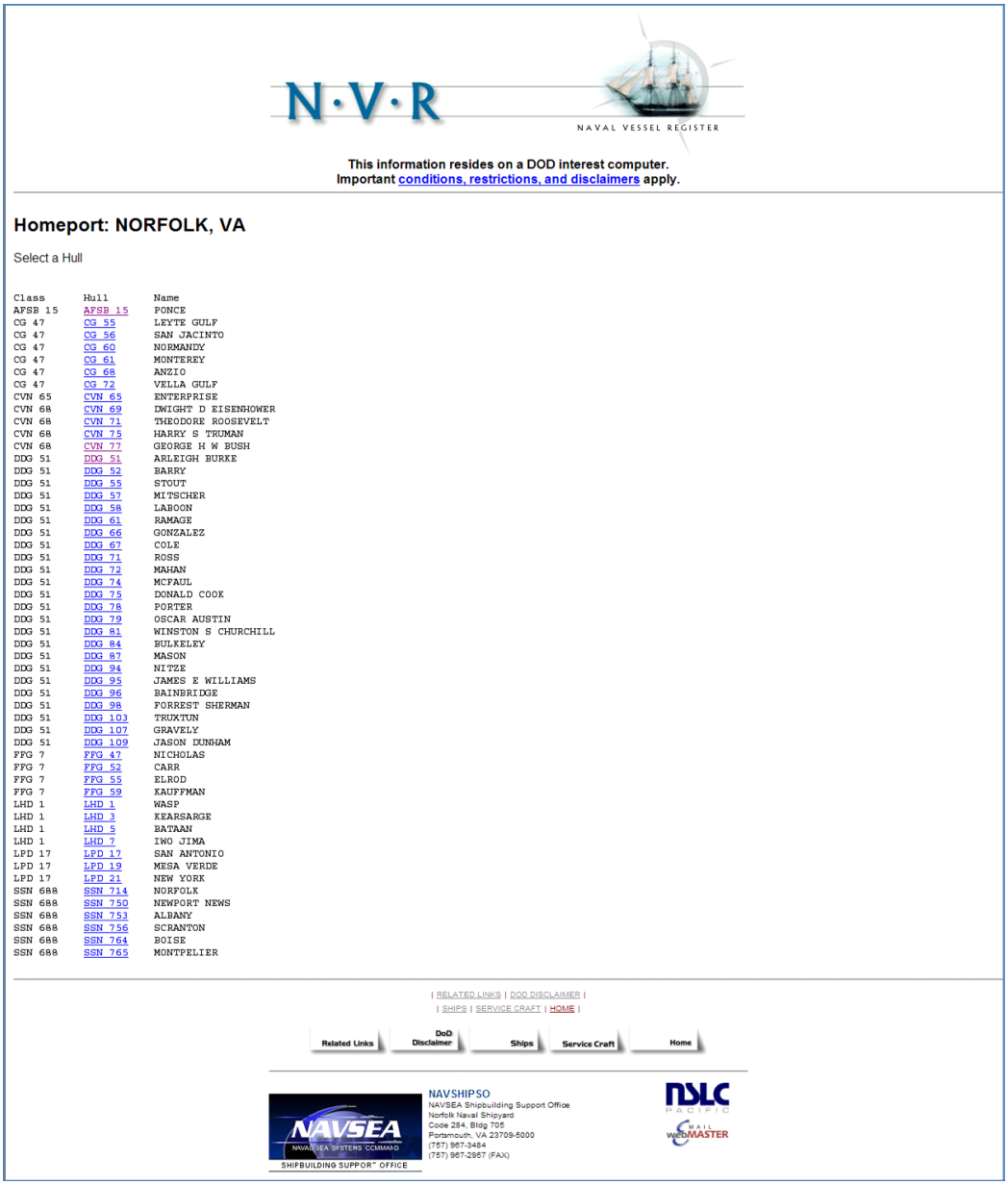
This past year has been one of tremendous activity and accomplishment for the Air Operations function within Operations Department. Composed of three Branches: Carrier Air Traffic Control Center (CATCC), Air Operations (Air Ops), and Air Transfer Office (ATO), this function is manned by five officers, two chief petty officers, and 38 enlisted Sailors. The year brought us the completion of Extended Ship's Restricted Availability (ESRA) and returned Enterprise to a sea-going fighting machine!

The Air Operations function began the year in the midst of ESRA at the Northrup-Grumman Newport News shipyard located in Newport News, Va. Air Operations established and operated a substantial transportation team which transported nearly 775,000 sailors from the pier to satellite parking sites accumulating over 665,000 vehicle miles in a 13 month period. In early spring, the CATCC team traveled to Pensacola, Fla. for annual team training. During this intensive two week hands-on refresher training, the CATCC-65 team surpassed all established records for professionalism, safety and adherence to air traffic control doctrine and procedures. After the completion of practical refresher training, Air Operations' attention was focused on preparing for the upcoming Commander, Naval Air Forces, U.S. Atlantic Fleet Quality Assurance audit. After an exhaustive inspection encompassing training procedures and documentation, publications, manuals and records, as well as an assessment of CATCC-65 team culture, the inspection team unearthed zero discrepancies in Air Operations.

Enterprise set sail for sea trials in late summer. Following a successful shake-down of all systems and a brief in-port period, Enterprise was underway again for Flight Deck Certification and CATCC Certification. While underway, Air Operations was integral in Air Department's regaining Flight Deck Certification, along with CATCC regaining Case III flight operations certification. Furthermore, Air Operations' air traffic control equipment was re-certified, including the Precision Approach Landing System (PALS), TACAN, and Instrument Landing System (BULLSEYE). After another brief in-port period, Enterprise set sail for TSTA and FEP. Air Operations function again set records by controlling CVW-1 aircraft in over 2207 sorties, moving 82,600 pounds of mail, parts and cargo, and transporting 637 passengers in a three week period.

End of year awards saw CATCC 65 personnel recognized for their excellence with the selection of ACC Bradley Vassar as the Commander, Naval Air Forces, U. S. Atlantic Fleet Air Traffic Controller of the Year. Divisional personnel were also recognized for superior performance in the field of excellence by earning two Navy Commendation Medals, twelve Navy and Marine Corps Achievement Medals, five Flag Letter of Commendations, and numerous Sailor of the Quarter awards.

Figure 19. NVR's Homeport page for Norfolk, VA [45]



N·V·R

NAVAL VESSEL REGISTER

This information resides on a DOD interest computer.
Important conditions, restrictions, and disclaimers apply.

Homeport: NORFOLK, VA

Select a Hull

Class	Hull	Name
AFSB 15	AFSB 15	PONCE
CG 47	CG 55	LEYTE GULF
CG 47	CG 56	SAN JACINTO
CG 47	CG 60	NORMANDY
CG 47	CG 61	MONTEREY
CG 47	CG 68	ANZIO
CG 47	CG 72	VELLA GULF
CVN 65	CVN 65	ENTERPRISE
CVN 68	CVN 69	DWIGHT D EISENHOWER
CVN 68	CVN 71	THEODORE ROOSEVELT
CVN 68	CVN 75	HARRY S TRUMAN
CVN 68	CVN 77	GEORGE H W BUSH
DDG 51	DDG 51	ARLEIGH BURKE
DDG 51	DDG 52	BARRY
DDG 51	DDG 55	STOUT
DDG 51	DDG 57	MITSCHER
DDG 51	DDG 58	LABOON
DDG 51	DDG 61	RAMAGE
DDG 51	DDG 66	GONZALEZ
DDG 51	DDG 67	COLE
DDG 51	DDG 71	ROSS
DDG 51	DDG 72	MAHAN
DDG 51	DDG 74	MCFAUL
DDG 51	DDG 75	DONALD COOK
DDG 51	DDG 78	PORTER
DDG 51	DDG 79	OSCAR AUSTIN
DDG 51	DDG 81	WINSTON S CHURCHILL
DDG 51	DDG 84	BULKELEY
DDG 51	DDG 87	MASON
DDG 51	DDG 94	NITZE
DDG 51	DDG 95	JAMES E WILLIAMS
DDG 51	DDG 96	BAINBRIDGE
DDG 51	DDG 98	FORREST SHERMAN
DDG 51	DDG 103	TRUXTUN
DDG 51	DDG 107	GRAVELY
DDG 51	DDG 109	JASON DUNHAM
FFG 7	FFG 47	NICHOLAS
FFG 7	FFG 52	CARR
FFG 7	FFG 55	ELROD
FFG 7	FFG 59	KAUFFMAN
LHD 1	LHD 1	WASP
LHD 1	LHD 3	KEARSARGE
LHD 1	LHD 5	BATAAN
LHD 1	LHD 7	IWO JIMA
LPD 17	LPD 17	SAN ANTONIO
LPD 17	LPD 19	MESA VERDE
LPD 17	LPD 21	NEW YORK
SSN 688	SSN 714	NORFOLK
SSN 688	SSN 750	NEWPORT NEWS
SSN 688	SSN 753	ALBANY
SSN 688	SSN 756	SCRANTON
SSN 688	SSN 764	BOISE
SSN 688	SSN 765	MONTPELIER

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NAVSEA NAVAL SEA SYSTEMS COMMAND SHIPBUILDING SUPPOR" OFFICE

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Portsmouth, VA 23709-5000
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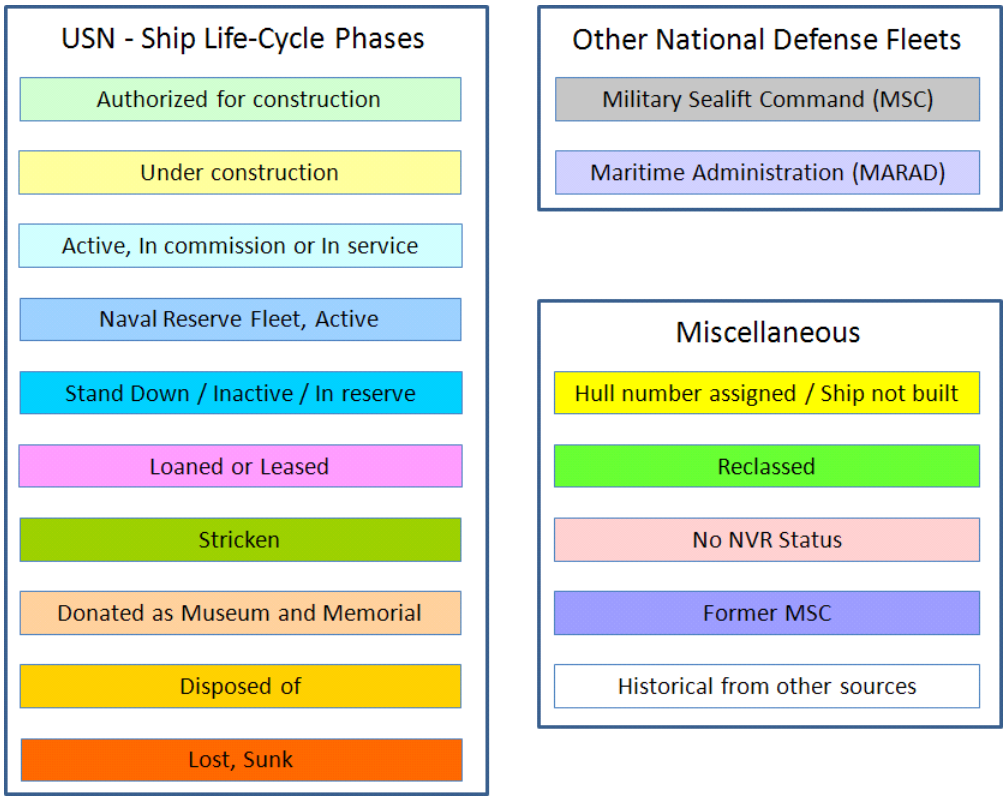
- Column Z: Commission Date
- Column AA: Age
- Column AB: Decommission/OOA Date
- Column AC: Inactivation Date
- Column AD: Stricken Date
- Column AE: Date Last Updated
- Column AF: Additional Comments; References

Cell shading. We have shaded the worksheet to visually distinguish various sections. Figure 20 is a legend for the coloring scheme.

Figure 20. Legend for *DataTableOriginal_Dec11* color scheme



There are three sections in the figure. The section on the left represents the records of Navy ships distinguished by phases in the ship life cycle.

The group at the upper right of the figure represent the two organizations that contribute to the national defense and serve as custodians of NVR units, that is, MSC and MARAD.

The group at the lower right is a miscellaneous assortment:

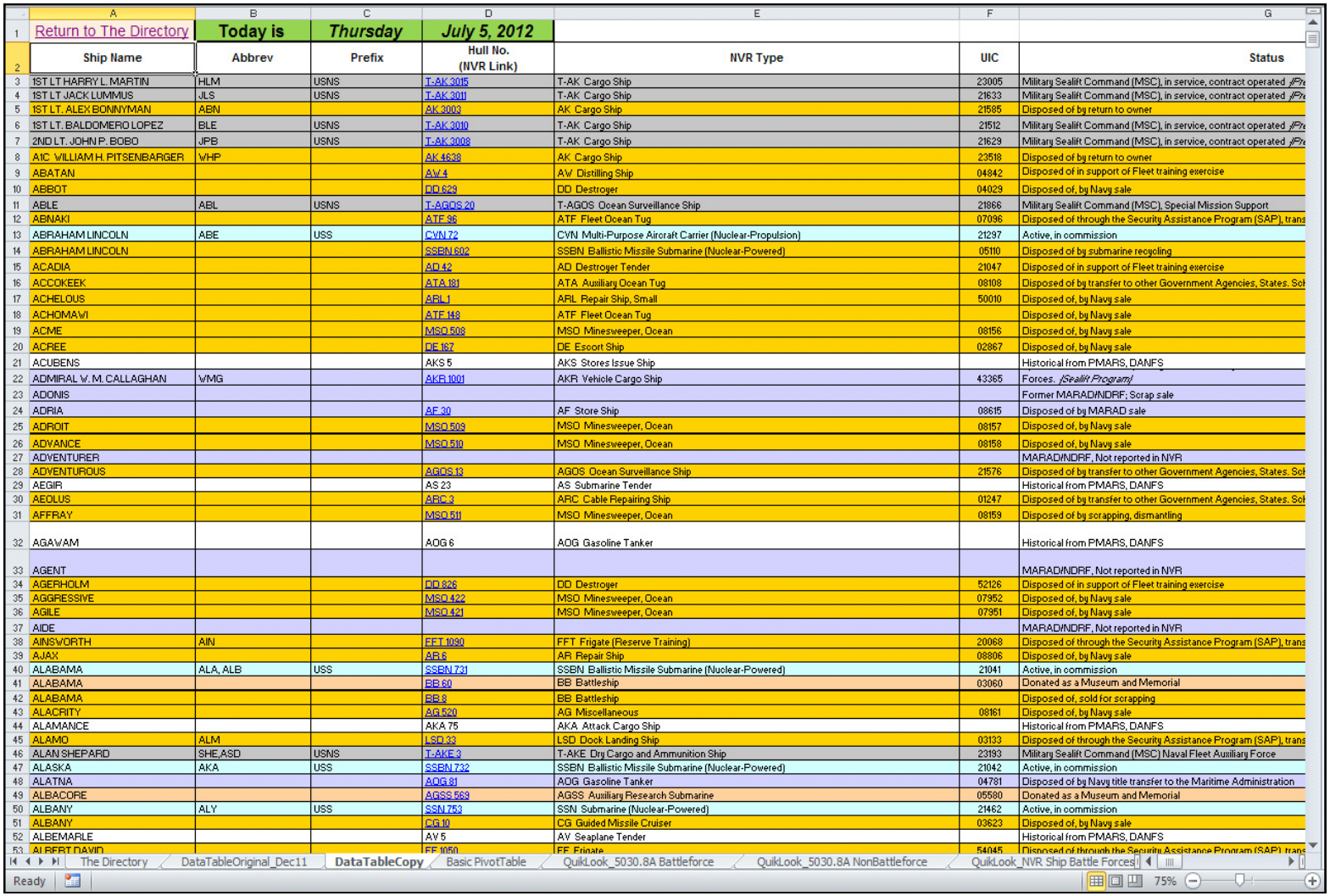
- The upper three boxes in this group account for other records from the NVR.
  - — The first subgroup is for units authorized for construction, assigned hull numbers, but never constructed.
  - — The second subgroup includes records for units that were reclassified. These records show the original classification.
  - — The third sub group has ship records that have not been assigned a status by NVR.
- The lower two subgroups include ship records derived from sources other than the NVR.
  - — The first set includes former MSC ships recorded in MSC's Ship Inventory data.
  - — The second set of records are for historical ship data come from other sources, specifically: the Navy Fact File; NHHC's DANFS; and MARAD's PMARS.

DataTableCopy

We protected *DataTableOriginal_Dec11* to preserve data integrity. You can use many of Excel's features in a protected worksheet, but you cannot use all of them (like the *Sort* function or toggling the *Autofilter* function on and off).

Consequently, we inserted a blank worksheet, named *DataTableCopy*, into which you can paste a copy of *DataTableOriginal_Dec11* and modify it without restriction. As an example, we sorted a copy of *DataTableOriginal_Dec11* by Ship Name. The result can be seen in figure 21.

Figure 21. The result of sorting by Ship Name — An example of data manipulation in *DataTableCopy*



	A	B	C	D	E	F	G
1	Return to The Directory	Today is	Thursday	July 5, 2012			
2	Ship Name	Abbrev	Prefix	Hull No. (NVR Link)	NVR Type	UIC	Status
3	1ST LT HARRY L. MARTIN	HLM	USNS	T-AK 3015	T-AK Cargo Ship	23005	Military Sealift Command (MSC), in service, contract operated
4	1ST LT JACK LUMMUS	JLS	USNS	T-AK 3011	T-AK Cargo Ship	21633	Military Sealift Command (MSC), in service, contract operated
5	1ST LT. ALEX BONNYMAN	ABN		AK 3003	AK Cargo Ship	21585	Disposed of by return to owner
6	1ST LT. BALDOMERO LOPEZ	BLE	USNS	T-AK 3010	T-AK Cargo Ship	21512	Military Sealift Command (MSC), in service, contract operated
7	2ND LT. JOHN P. BOBO	JPB	USNS	T-AK 3008	T-AK Cargo Ship	21629	Military Sealift Command (MSC), in service, contract operated
8	A1C WILLIAM H. PITSENBARGER	WHP		AK 4638	AK Cargo Ship	23518	Disposed of by return to owner
9	ABATAN			AW 4	AW Distilling Ship	04842	Disposed of in support of Fleet training exercise
10	ABBOT			DD 629	DD Destroyer	04029	Disposed of, by Navy sale
11	ABLE	ABL	USNS	T-AGOS 20	T-AGOS Ocean Surveillance Ship	21866	Military Sealift Command (MSC), Special Mission Support
12	ABNAKI			ATF 96	ATF Fleet Ocean Tug	07096	Disposed of through the Security Assistance Program (SAP), trans
13	ABRAHAM LINCOLN	ABE	USS	CVN 72	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	21297	Active, in commission
14	ABRAHAM LINCOLN			SSBN 602	SSBN Ballistic Missile Submarine (Nuclear-Powered)	05110	Disposed of by submarine recycling
15	ACADIA			AD 42	AD Destroyer Tender	21047	Disposed of in support of Fleet training exercise
16	ACCOKEEK			ATA 181	ATA Auxiliary Ocean Tug	08108	Disposed of by transfer to other Government Agencies, States. Sol
17	ACHELOUS			ARL 1	ARL Repair Ship, Small	50010	Disposed of, by Navy sale
18	ACHOMAWI			ATF 148	ATF Fleet Ocean Tug		Disposed of, by Navy sale
19	ACME			MSO 508	MSO Minesweeper, Ocean	08156	Disposed of, by Navy sale
20	ACREE			DE 167	DE Escort Ship	02867	Disposed of, by Navy sale
21	ACUBENS			AKS 5	AKS Stores Issue Ship		Historical from PMARS, DANFS
22	ADMIRAL W. M. CALLAGHAN	WMG		AKR 1001	AKR Vehicle Cargo Ship	43365	Forces. *(Sealift Program)*
23	ADONIS						Former MARAD/NDRF; Scrap sale
24	ADRIA			AF 30	AF Store Ship	08615	Disposed of by MARAD sale
25	ADROIT			MSO 509	MSO Minesweeper, Ocean	08157	Disposed of, by Navy sale
26	ADVANCE			MSO 510	MSO Minesweeper, Ocean	08158	Disposed of, by Navy sale
27	ADVENTURER						MARAD/NDRF, Not reported in NVR
28	ADVENTUROUS			AGOS 13	AGOS Ocean Surveillance Ship	21576	Disposed of by transfer to other Government Agencies, States. Sol
29	AEGIR			AS 23	AS Submarine Tender		Historical from PMARS, DANFS
30	AEOLUS			ARC 3	ARC Cable Repairing Ship	01247	Disposed of by transfer to other Government Agencies, States. Sol
31	AFFRAY			MSO 511	MSO Minesweeper, Ocean	08159	Disposed of by scrapping, dismantling
32	AGAWAM			AOG 6	AOG Gasoline Tanker		Historical from PMARS, DANFS
33	AGENT						MARAD/NDRF, Not reported in NVR
34	AGERHOLM			DD 826	DD Destroyer	52126	Disposed of in support of Fleet training exercise
35	AGGRESSIVE			MSO 422	MSO Minesweeper, Ocean	07952	Disposed of, by Navy sale
36	AGILE			MSO 421	MSO Minesweeper, Ocean	07951	Disposed of, by Navy sale
37	AIDE						MARAD/NDRF, Not reported in NVR
38	AINSWORTH	AIN		FFT 1090	FFT Frigate (Reserve Training)	20068	Disposed of through the Security Assistance Program (SAP), trans
39	AJAX			AR 6	AR Repair Ship	08806	Disposed of, by Navy sale
40	ALABAMA	ALA, ALB	USS	SSBN 731	SSBN Ballistic Missile Submarine (Nuclear-Powered)	21041	Active, in commission
41	ALABAMA			BB 60	BB Battleship	03060	Donated as a Museum and Memorial
42	ALABAMA			BB 8	BB Battleship		Disposed of, sold for scrapping
43	ALACRITY			AG 520	AG Miscellaneous	08161	Disposed of, by Navy sale
44	ALAMANCE			AKA 75	AKA Attack Cargo Ship		Historical from PMARS, DANFS
45	ALAMO	ALM		LSD 33	LSD Dock Landing Ship	03133	Disposed of through the Security Assistance Program (SAP), trans
46	ALAN SHEPARD	SHE,ASD	USNS	T-AKE 3	T-AKE Dry Cargo and Ammunition Ship	23193	Military Sealift Command (MSC) Naval Fleet Auxiliary Force
47	ALASKA	AKA	USS	SSBN 732	SSBN Ballistic Missile Submarine (Nuclear-Powered)	21042	Active, in commission
48	ALATNA			AOG 81	AOG Gasoline Tanker	04781	Disposed of by Navy title transfer to the Maritime Administration
49	ALBACORE			AGSS 569	AGSS Auxiliary Research Submarine	05580	Donated as a Museum and Memorial
50	ALBANY	ALY	USS	SSN 753	SSN Submarine (Nuclear-Powered)	21462	Active, in commission
51	ALBANY			CG 10	CG Guided Missile Cruiser	03623	Disposed of, by Navy sale
52	ALBEMARLE			AV 5	AV Seaplane Tender		Historical from PMARS, DANFS
53	ALBERT DAVID			FF 1050	FF Frigate	54045	Disposed of through the Security Assistance Program (SAP), trans

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Ready 75%

The pivot tables

Microsoft Excel's pivot tables offer a way to filter, organize, apply calculations, and display information from a database. Furthermore, you can rapidly re-filter, reorganize, modify calculations, and re-display with pivot tables.

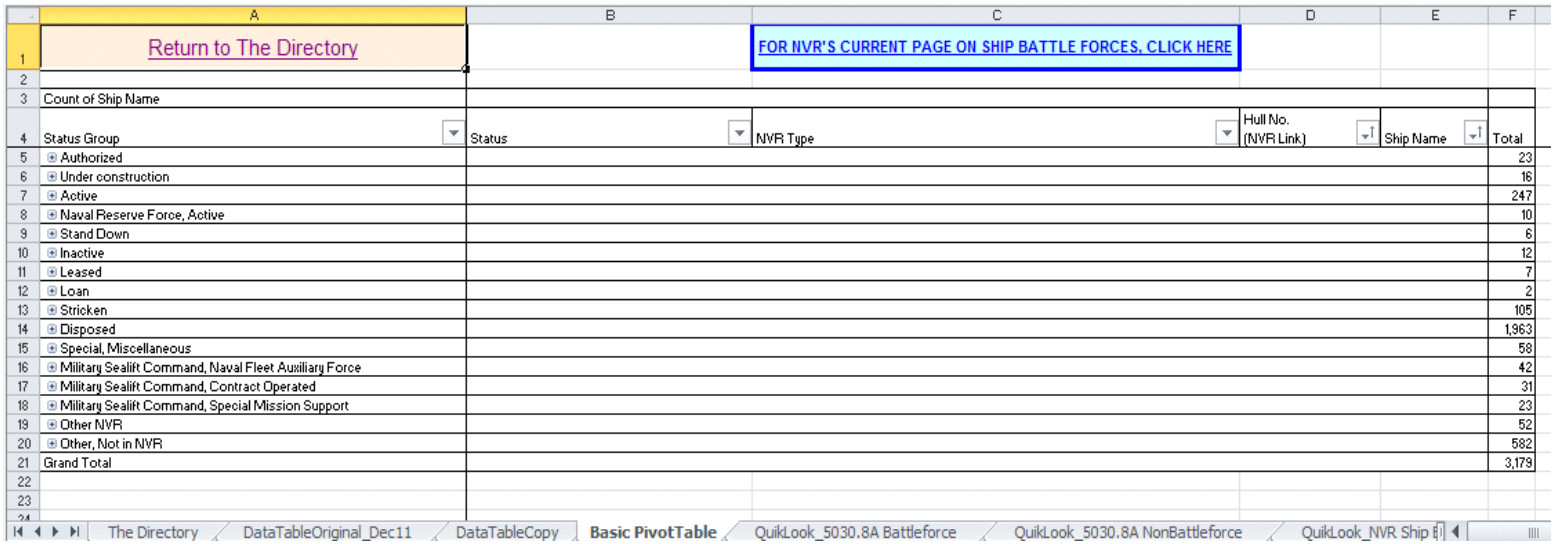
In this section, we describe the six pivot tables in the ISDB.

The *Basic Pivot Table*

The third worksheet in the database file is the *Basic PivotTable*. It provides a quick summary of the database contents. In figure 22, you see the opening view of *Basic PivotTable*. This compressed display shows the number of records in the database for the various Status Groups. These Groups include:

- For NVR ship records [46]
  - — Authorized
  - — Under Construction
  - — Active
  - — Naval Reserve Force, Active
  - — Stand Down
  - — Inactive
  - — Leased
  - — Loan
  - — Stricken
  - — Disposed
  - — Special, Miscellaneous
  - — Military Sealift Command, Naval Fleet Auxiliary Force
  - — Military Sealift Command, Contract Operated
  - — Military Sealift Command, Special Mission Support
  - — Other NVR

Figure 22. Initial compressed view of *Basic PivotTable*



	A	B	C	D	E	F
1	Return to The Directory		FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE			
2						
3	Count of Ship Name					
4	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
5	Authorized					23
6	Under construction					16
7	Active					247
8	Naval Reserve Force, Active					10
9	Stand Down					6
10	Inactive					12
11	Leased					7
12	Loan					2
13	Stricken					105
14	Disposed					1,963
15	Special, Miscellaneous					58
16	Military Sealift Command, Naval Fleet Auxiliary Force					42
17	Military Sealift Command, Contract Operated					31
18	Military Sealift Command, Special Mission Support					23
19	Other NVR					52
20	Other, Not in NVR					582
21	Grand Total					3,179
22						
23						

The Directory | DataTableOriginal_Dec11 | DataTableCopy | **Basic PivotTable** | QuikLook_5030.8A Battleforce | QuikLook_5030.8A NonBattleforce | QuikLook_NVR Ship

- For ship records not in NVR
  - — Other, Not in NVR

To expand the display and reveal the ship counts in the various Status Groups, follow the steps in figure 23:

1. Select cell A4, “Status Group,” and right-click to bring up the first drop-down menu.
2. Roll the cursor over the “Expand/Collapse” option in the first menu to display the second drop-down menu.
3. Left-click the “Expand” option.

Figure 24 shows the resulting expansion.

If you follow the same sequence of steps across “Status” and “NVR Type”, you can see the successive expansions in figures 25 and 26.

Figure 26 is the fully expanded view of the pivot table. In it, you can see the detailed ship names and hull numbers for units within the various ship status groupings.

Figure 23. How to expand Status Group in *Basic PivotTable*

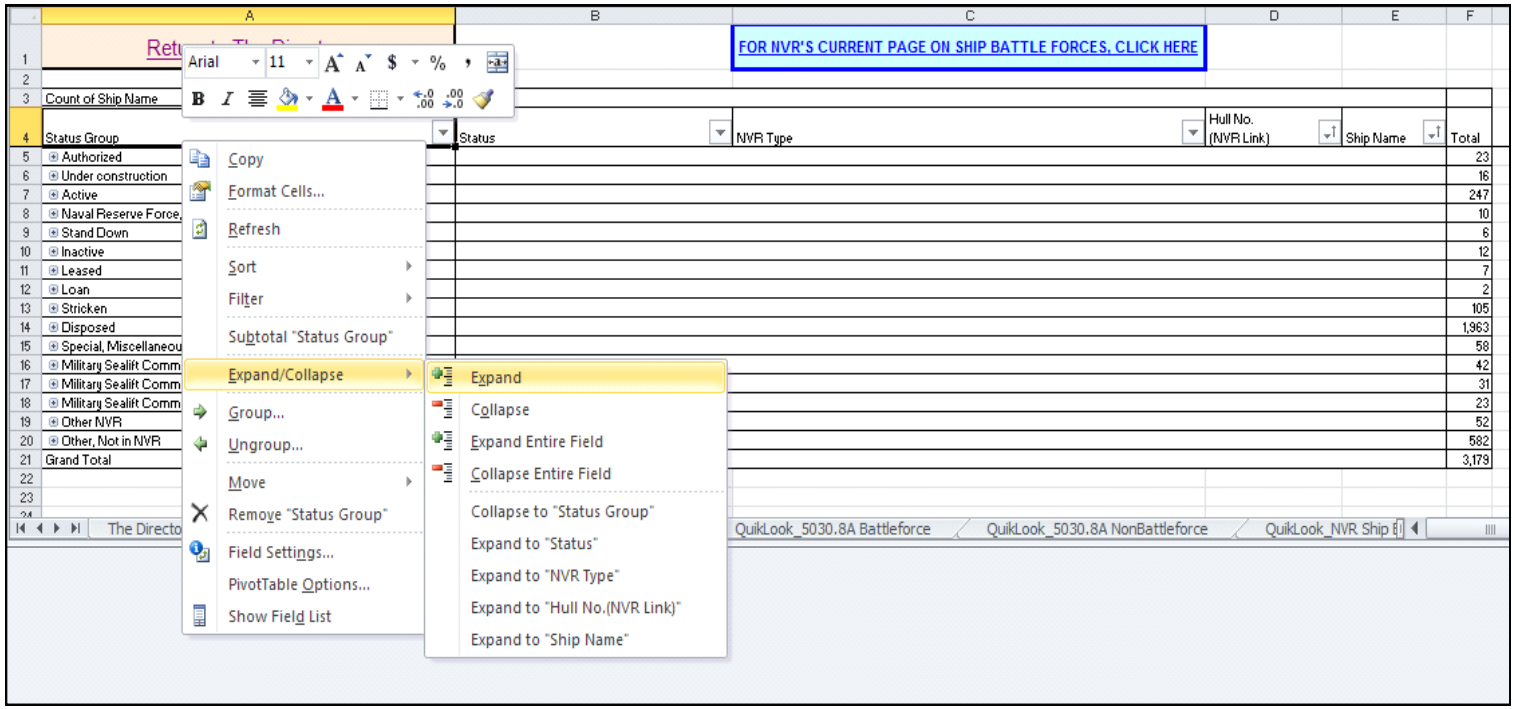
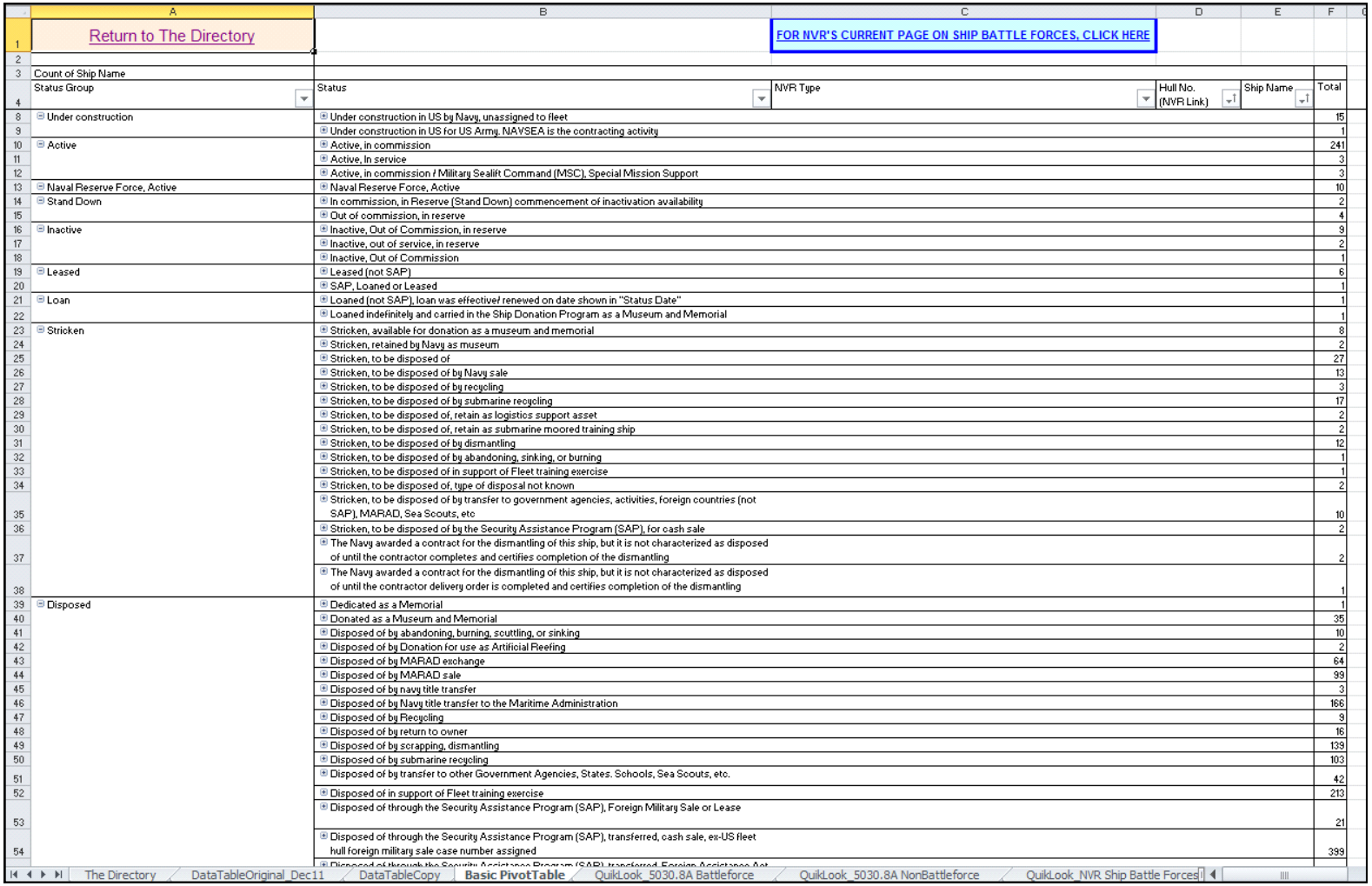


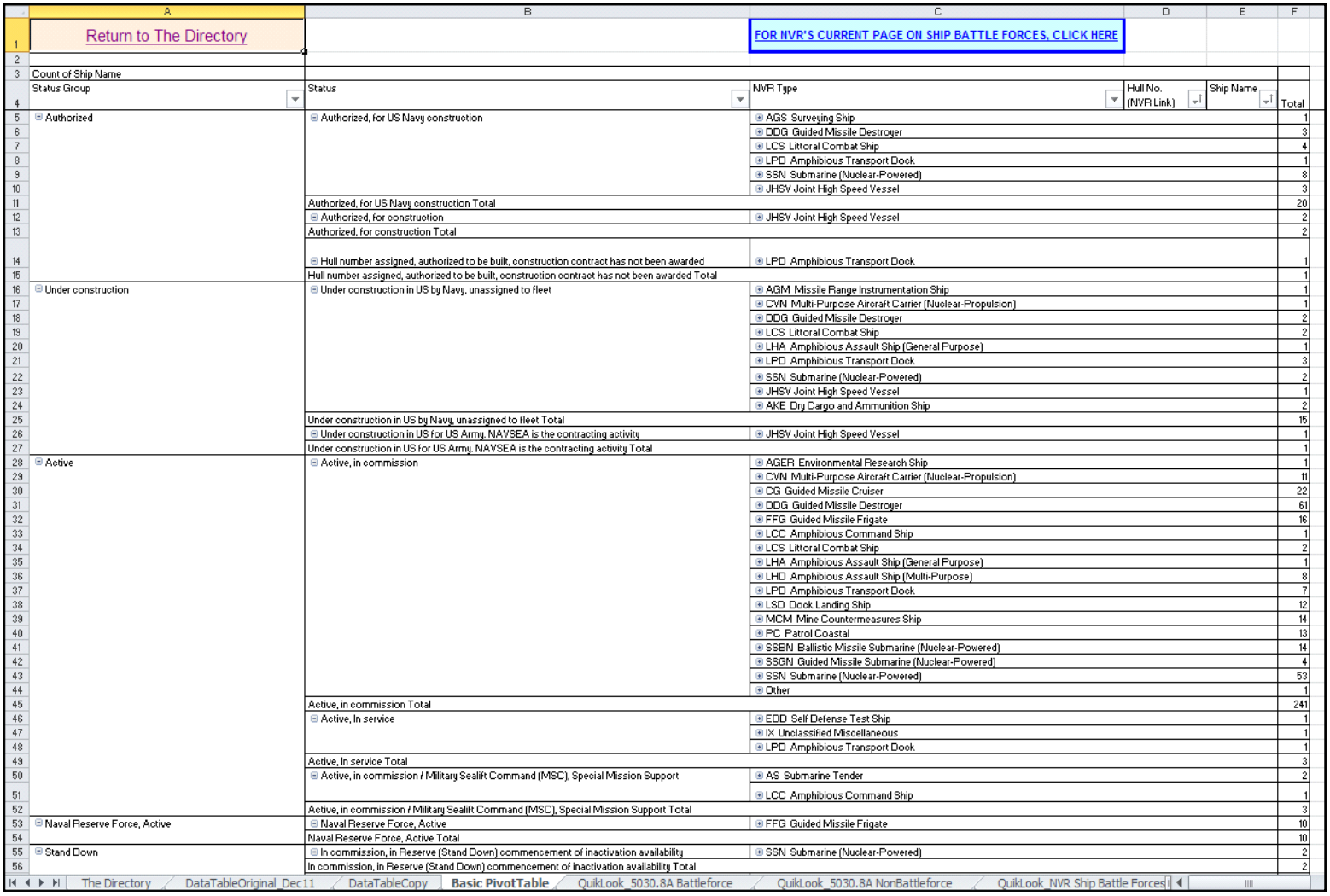
Figure 24. View of *Basic PivotTable* with Status Group expanded



	A	B	C	D	E	F
1	Return to The Directory		FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE			
2						
3	Count of Ship Name					
4	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
8	Under construction	Under construction in US by Navy, unassigned to fleet				15
9		Under construction in US for US Army. NAVSEA is the contracting activity				1
10	Active	Active, in commission				241
11		Active, In service				3
12		Active, in commission / Military Sealift Command (MSC), Special Mission Support				3
13	Naval Reserve Force, Active	Naval Reserve Force, Active				10
14	Stand Down	In commission, in Reserve (Stand Down) commencement of inactivation availability				2
15		Out of commission, in reserve				4
16	Inactive	Inactive, Out of Commission, in reserve				9
17		Inactive, out of service, in reserve				2
18		Inactive, Out of Commission				1
19	Leased	Leased (not SAP)				6
20		SAP, Loaned or Leased				1
21	Loan	Loaned (not SAP), loan was effective/ renewed on date shown in "Status Date"				1
22		Loaned indefinitely and carried in the Ship Donation Program as a Museum and Memorial				1
23	Stricken	Stricken, available for donation as a museum and memorial				8
24		Stricken, retained by Navy as museum				2
25		Stricken, to be disposed of				27
26		Stricken, to be disposed of by Navy sale				13
27		Stricken, to be disposed of by recycling				3
28		Stricken, to be disposed of by submarine recycling				17
29		Stricken, to be disposed of, retain as logistics support asset				2
30		Stricken, to be disposed of, retain as submarine moored training ship				2
31		Stricken, to be disposed of by dismantling				12
32		Stricken, to be disposed of by abandoning, sinking, or burning				1
33		Stricken, to be disposed of in support of Fleet training exercise				1
34		Stricken, to be disposed of, type of disposal not known				2
35		Stricken, to be disposed of by transfer to government agencies, activities, foreign countries (not SAP), MARAD, Sea Scouts, etc				10
36		Stricken, to be disposed of by the Security Assistance Program (SAP), for cash sale				2
37		The Navy awarded a contract for the dismantling of this ship, but it is not characterized as disposed of until the contractor completes and certifies completion of the dismantling				2
38		The Navy awarded a contract for the dismantling of this ship, but it is not characterized as disposed of until the contractor delivery order is completed and certifies completion of the dismantling				1
39	Disposed	Dedicated as a Memorial				1
40		Donated as a Museum and Memorial				35
41		Disposed of by abandoning, burning, scuttling, or sinking				10
42		Disposed of by Donation for use as Artificial Reefing				2
43		Disposed of by MARAD exchange				64
44		Disposed of by MARAD sale				99
45		Disposed of by navy title transfer				3
46		Disposed of by Navy title transfer to the Maritime Administration				166
47		Disposed of by Recycling				9
48		Disposed of by return to owner				16
49		Disposed of by scrapping, dismantling				139
50		Disposed of by submarine recycling				103
51		Disposed of by transfer to other Government Agencies, States. Schools, Sea Scouts, etc.				42
52		Disposed of in support of Fleet training exercise				213
53		Disposed of through the Security Assistance Program (SAP), Foreign Military Sale or Lease				21
54		Disposed of through the Security Assistance Program (SAP), transferred, cash sale, ex-US fleet hull foreign military sale case number assigned				399

The Directory | DataTableOriginal_Dec11 | DataTableCopy | **Basic PivotTable** | QuikLook_5030.8A Battleforce | QuikLook_5030.8A NonBattleforce | QuikLook_NVR Ship Battle Forces

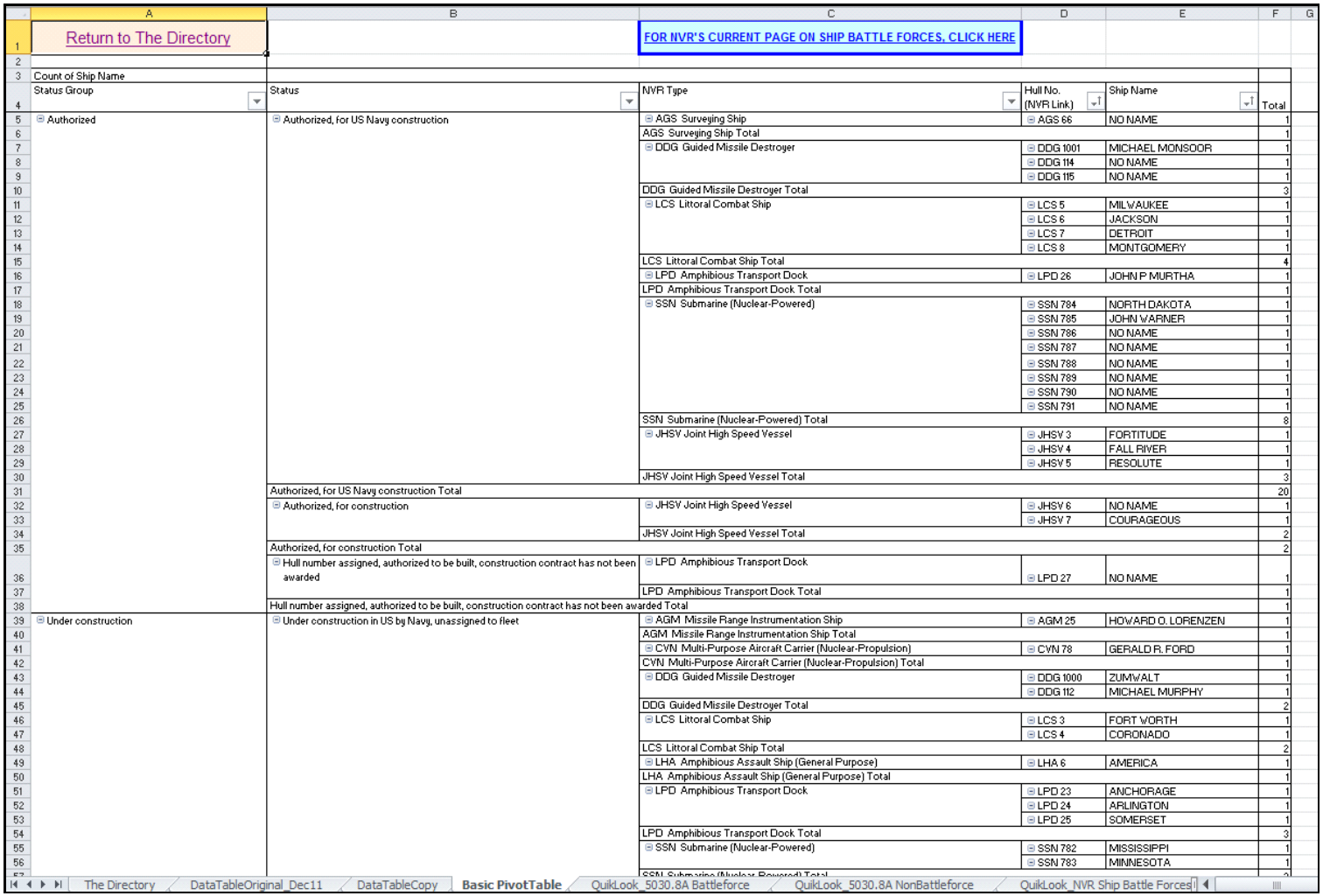
Figure 25. Top portion of *Basic PivotTable* with Status Group and Status expanded



	A	B	C	D	E	F
1	Return to The Directory		FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE			
2						
3	Count of Ship Name					
4	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
5	⊟ Authorized	⊟ Authorized, for US Navy construction	⊞ AGS Surveying Ship			1
6			⊞ DDG Guided Missile Destroyer			3
7			⊞ LCS Littoral Combat Ship			4
8			⊞ LPD Amphibious Transport Dock			1
9			⊞ SSN Submarine (Nuclear-Powered)			8
10			⊞ JHSV Joint High Speed Vessel			3
11		Authorized, for US Navy construction Total				20
12		⊟ Authorized, for construction	⊞ JHSV Joint High Speed Vessel			2
13		Authorized, for construction Total				2
14		⊟ Hull number assigned, authorized to be built, construction contract has not been awarded	⊞ LPD Amphibious Transport Dock			1
15		Hull number assigned, authorized to be built, construction contract has not been awarded Total				1
16	⊟ Under construction	⊟ Under construction in US by Navy, unassigned to fleet	⊞ AGM Missile Range Instrumentation Ship			1
17			⊞ CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)			1
18			⊞ DDG Guided Missile Destroyer			2
19			⊞ LCS Littoral Combat Ship			2
20			⊞ LHA Amphibious Assault Ship (General Purpose)			1
21			⊞ LPD Amphibious Transport Dock			3
22			⊞ SSN Submarine (Nuclear-Powered)			2
23			⊞ JHSV Joint High Speed Vessel			1
24			⊞ AKE Dry Cargo and Ammunition Ship			2
25		Under construction in US by Navy, unassigned to fleet Total				15
26		⊟ Under construction in US for US Army, NAVSEA is the contracting activity	⊞ JHSV Joint High Speed Vessel			1
27		Under construction in US for US Army, NAVSEA is the contracting activity Total				1
28	⊟ Active	⊟ Active, in commission	⊞ AGER Environmental Research Ship			1
29			⊞ CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)			11
30			⊞ CG Guided Missile Cruiser			22
31			⊞ DDG Guided Missile Destroyer			61
32			⊞ FFG Guided Missile Frigate			16
33			⊞ LCC Amphibious Command Ship			1
34			⊞ LCS Littoral Combat Ship			2
35			⊞ LHA Amphibious Assault Ship (General Purpose)			1
36			⊞ LHD Amphibious Assault Ship (Multi-Purpose)			8
37			⊞ LPD Amphibious Transport Dock			7
38			⊞ LSD Dock Landing Ship			12
39			⊞ MCM Mine Countermeasures Ship			14
40			⊞ PC Patrol Coastal			13
41			⊞ SSBN Ballistic Missile Submarine (Nuclear-Powered)			14
42			⊞ SSGN Guided Missile Submarine (Nuclear-Powered)			4
43			⊞ SSN Submarine (Nuclear-Powered)			53
44			⊞ Other			1
45		Active, in commission Total				241
46		⊟ Active, In service	⊞ EDD Self Defense Test Ship			1
47			⊞ IX Unclassified Miscellaneous			1
48			⊞ LPD Amphibious Transport Dock			1
49		Active, In service Total				3
50		⊟ Active, in commission / Military Sealift Command (MSC), Special Mission Support	⊞ AS Submarine Tender			2
51			⊞ LCC Amphibious Command Ship			1
52		Active, in commission / Military Sealift Command (MSC), Special Mission Support Total				3
53	⊟ Naval Reserve Force, Active	⊟ Naval Reserve Force, Active	⊞ FFG Guided Missile Frigate			10
54		Naval Reserve Force, Active Total				10
55	⊟ Stand Down	⊟ In commission, in Reserve (Stand Down) commencement of inactivation availability	⊞ SSN Submarine (Nuclear-Powered)			2
56		In commission, in Reserve (Stand Down) commencement of inactivation availability Total				2

The Directory | DataTableOriginal_Dec11 | DataTableCopy | **Basic PivotTable** | QuikLook_5030.8A Battleforce | QuikLook_5030.8A NonBattleforce | QuikLook_NVR Ship Battle Forces

Figure 26. Top portion of *Basic PivotTable* fully expanded



	A	B	C	D	E	F
1	Return to The Directory		FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE			
2						
3	Count of Ship Name					
4	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
5	⊟ Authorized	⊟ Authorized, for US Navy construction	⊟ AGS Surveying Ship	⊟ AGS 66	NO NAME	1
6			AGS Surveying Ship Total			1
7			⊟ DDG Guided Missile Destroyer	⊟ DDG 1001	MICHAEL MONSOOR	1
8				⊟ DDG 114	NO NAME	1
9				⊟ DDG 115	NO NAME	1
10			DDG Guided Missile Destroyer Total			3
11			⊟ LCS Littoral Combat Ship	⊟ LCS 5	MILWAUKEE	1
12				⊟ LCS 6	JACKSON	1
13				⊟ LCS 7	DETROIT	1
14				⊟ LCS 8	MONTGOMERY	1
15			LCS Littoral Combat Ship Total			4
16			⊟ LPD Amphibious Transport Dock	⊟ LPD 26	JOHN P MURTHA	1
17			LPD Amphibious Transport Dock Total			1
18			⊟ SSN Submarine (Nuclear-Powered)	⊟ SSN 784	NORTH DAKOTA	1
19				⊟ SSN 785	JOHN WARNER	1
20				⊟ SSN 786	NO NAME	1
21				⊟ SSN 787	NO NAME	1
22				⊟ SSN 788	NO NAME	1
23				⊟ SSN 789	NO NAME	1
24				⊟ SSN 790	NO NAME	1
25				⊟ SSN 791	NO NAME	1
26			SSN Submarine (Nuclear-Powered) Total			8
27			⊟ JHSV Joint High Speed Vessel	⊟ JHSV 3	FORTITUDE	1
28				⊟ JHSV 4	FALL RIVER	1
29				⊟ JHSV 5	RESOLUTE	1
30			JHSV Joint High Speed Vessel Total			3
31		Authorized, for US Navy construction Total				20
32		⊟ Authorized, for construction	⊟ JHSV Joint High Speed Vessel	⊟ JHSV 6	NO NAME	1
33				⊟ JHSV 7	COURAGEOUS	1
34			JHSV Joint High Speed Vessel Total			2
35		Authorized, for construction Total				2
36		⊟ Hull number assigned, authorized to be built, construction contract has not been awarded	⊟ LPD Amphibious Transport Dock	⊟ LPD 27	NO NAME	1
37			LPD Amphibious Transport Dock Total			1
38		Hull number assigned, authorized to be built, construction contract has not been awarded Total				1
39	⊟ Under construction	⊟ Under construction in US by Navy, unassigned to fleet	⊟ AGM Missile Range Instrumentation Ship	⊟ AGM 25	HOWARD O. LORENZEN	1
40			AGM Missile Range Instrumentation Ship Total			1
41			⊟ CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	⊟ CVN 78	GERALD R. FORD	1
42			CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion) Total			1
43			⊟ DDG Guided Missile Destroyer	⊟ DDG 1000	ZUMWALT	1
44				⊟ DDG 112	MICHAEL MURPHY	1
45			DDG Guided Missile Destroyer Total			2
46			⊟ LCS Littoral Combat Ship	⊟ LCS 3	FORT WORTH	1
47				⊟ LCS 4	CORONADO	1
48			LCS Littoral Combat Ship Total			2
49			⊟ LHA Amphibious Assault Ship (General Purpose)	⊟ LHA 6	AMERICA	1
50			LHA Amphibious Assault Ship (General Purpose) Total			1
51			⊟ LPD Amphibious Transport Dock	⊟ LPD 23	ANCHORAGE	1
52				⊟ LPD 24	ARLINGTON	1
53				⊟ LPD 25	SOMERSET	1
54			LPD Amphibious Transport Dock Total			3
55			⊟ SSN Submarine (Nuclear-Powered)	⊟ SSN 782	MISSISSIPPI	1
56				⊟ SSN 783	MINNESOTA	1
57			SSN Submarine (Nuclear-Powered) Total			2

The Directory | DataTableOriginal_Dec11 | DataTableCopy | **Basic PivotTable** | QuikLook_5030.8A Battleforce | QuikLook_5030.8A NonBattleforce | QuikLook_NVR Ship Battle Forces

The QuikLook pivot tables

As the name implies, these pivot tables are intended for quick, immediate display of fleet compositions and ship counts according to two standard classification and counting systems:

1. The system defined in SECNAV's 5030.8A Instruction on vessel classification and Battleforce ship counting [26], and
2. The system formerly used by NVR to classify ships into forces.[5]

SECNAVINST 5030.8A on Vessel Classification and Battleforce Ship Counting. In the last update [24], we modified the database to account for the system defined in the SECNAV Instruction 5030.8A.

Figure 27 illustrates the general organization of the 5030.8A system and also the specific example of the scheme applied to Navy surface combatants.

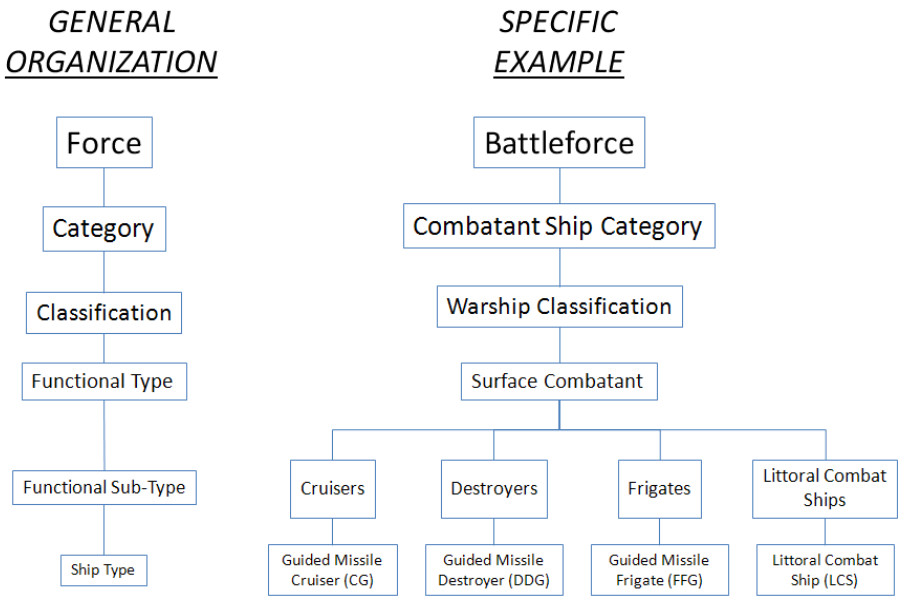
At the top level of organization, i.e. the Force level, 5030.8A identifies two Forces: Battleforce and Non-Battleforce. The instruction then specifies a sequence of increasing specificity down to the lowest level, that of ship-type.

The instruction explicitly defines "Categories" and "Classifications." In our example, The Category is the Combatant Ship Category and the Classification is the Warship Classification.

The 5030.8A instruction does not explicitly label the next two levels, So we refer to them as "Functional Type" and "Sub-Functional Type," respectively. In the example, Surface Combatant is the Functional Type. The Functional Sub-Types included, Cruisers, Destroyers, Frigates, and Littoral Combat Ships.

5. NVR is in transition from its former system to that of the SECNAV instruction. The current NVR system is actually a hybrid of the two systems.

Figure 27. General 5030.8A organization with an example



Specific Ship Types are Guided Missile Cruisers (CGs), Guided Missile Destroyers (DDGs), Guided Missile Frigates (FFGs), and Littoral Combat Ships (LCSs).

In figure 28, we show the composition of the Battleforce in terms of the 5030.8A ship categories, classifications, and types. Likewise, figure 29 shows the organization of the Non-Battleforce.

The colored boxes at the bottom of these figures indicate the respective custodians of the ships. Blue designates U.S. Navy. Gray depicts MSC. Green accounts for the ships under MSC custody, but crewed by hybrid of Navy military personnel and MSC civilians.

To accommodate the 5030.8A information, we added four fields:

- Column K: 5030.8A Force
- Column L: 5030.8A Ship Category
- Column M: 5030.8A Ship Classification
- Column N: 5030.8A Ship Type

Figure 28. Composition of the 5030.8A Battleforce

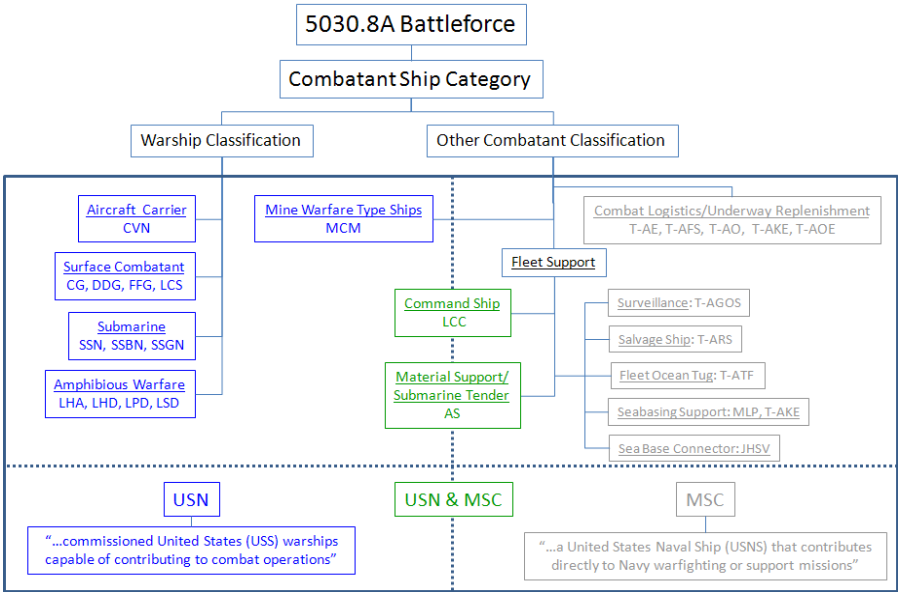
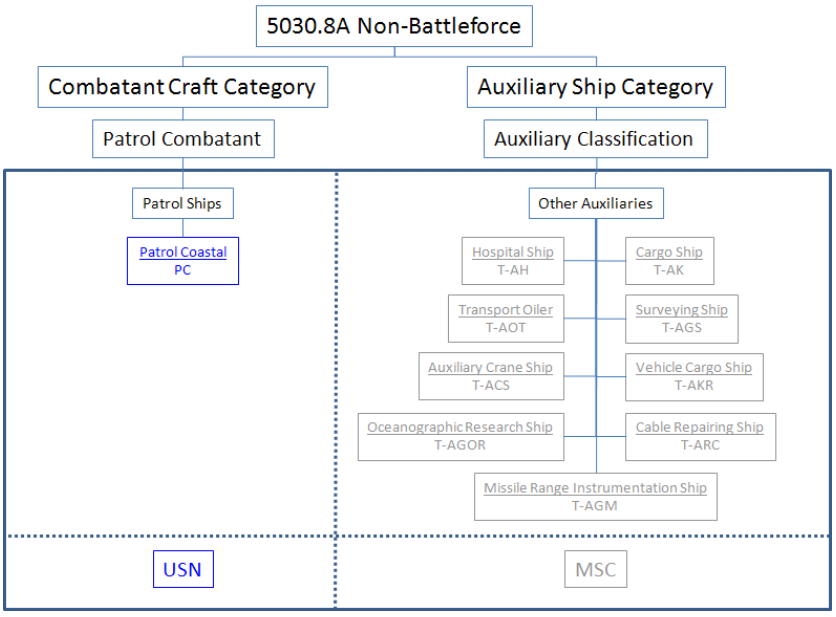


Figure 29. Composition of the 5030.8A Non-Battleforce



To populate these fields, we first used the SECNAV instruction as a guide. Then we confirmed our assignments using the Navy Ship Annual Supplemental Data Table (SASDT) in the President's Budget submittal for Fiscal Year 2012 [47].

After populating the data worksheet, we built two QuikLook pivot tables : *QuikLook_5030.8A Battleforce* and *QuikLook_5030.8A NonBattleforce*.

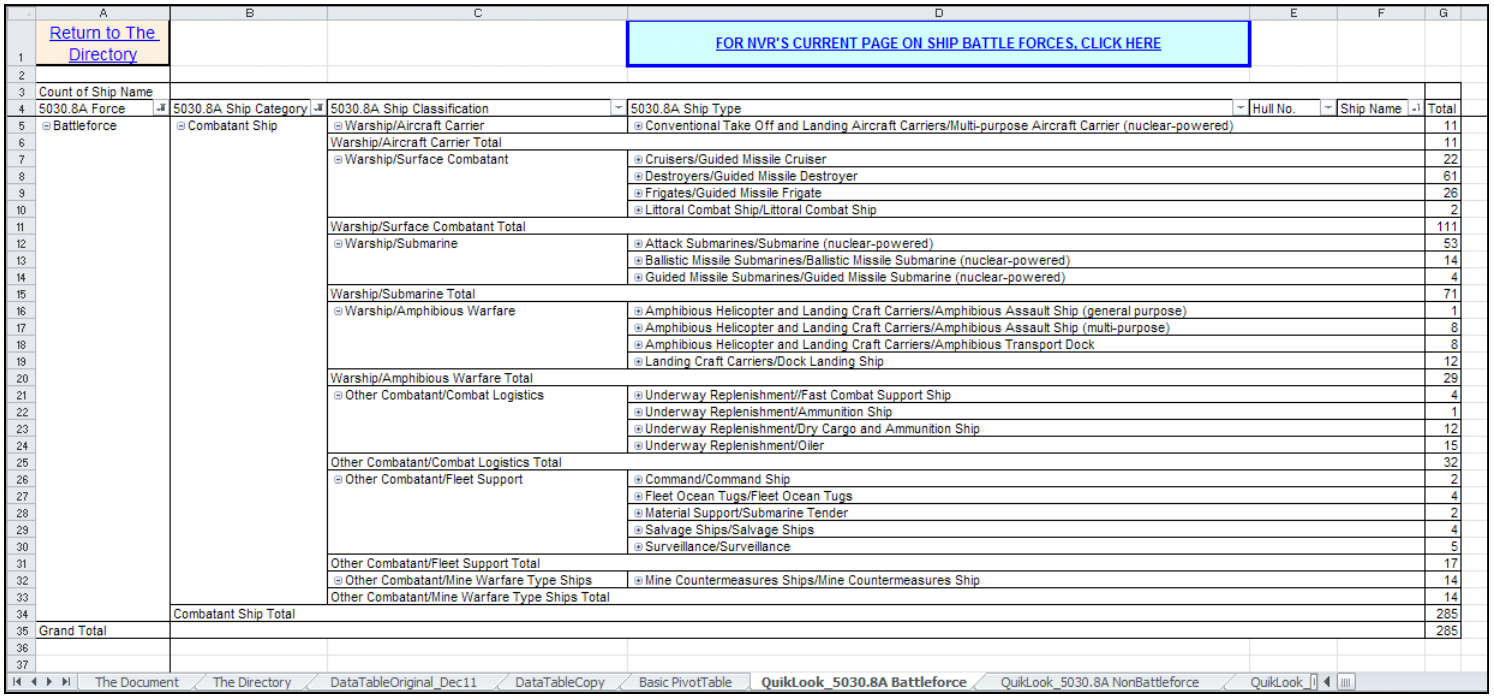
Figure 30 shows the compressed display of *QuikLook_5030.8A Battleforce* available when the tab is first opened. You can see the total count of ships in the Battleforce, as well as the makeup by 5030.8A categories, classifications, and types.

Cell D1 contains a link to the NVR's current count of the Ship Battle Forces for quick reference (See figure 31).

If you expand the entire 5030.8A Ship Category field in column A (using the same steps we discussed above for *Basic PivotTable*) and show individual ship names and hull numbers, you will see the complete composition of the Battleforce as in figure 32.

Figures 33 and 34 are similar views for the Non-Battleforce ships.

Figure 30. Initial view of *QuikLook_5030.8A Battleforce*



	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)			11
6			Warship/Aircraft Carrier Total				11
7			Warship/Surface Combatant	Cruisers/Guided Missile Cruiser			22
8				Destroyers/Guided Missile Destroyer			61
9				Frigates/Guided Missile Frigate			26
10				Littoral Combat Ship/Littoral Combat Ship			2
11			Warship/Surface Combatant Total				111
12			Warship/Submarine	Attack Submarines/Submarine (nuclear-powered)			53
13				Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)			14
14				Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)			4
15			Warship/Submarine Total				71
16			Warship/Amphibious Warfare	Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)			1
17				Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)			8
18				Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock			8
19				Landing Craft Carriers/Dock Landing Ship			12
20			Warship/Amphibious Warfare Total				29
21			Other Combatant/Combat Logistics	Underway Replenishment//Fast Combat Support Ship			4
22				Underway Replenishment/Ammunition Ship			1
23				Underway Replenishment/Dry Cargo and Ammunition Ship			12
24				Underway Replenishment/Oiler			15
25			Other Combatant/Combat Logistics Total				32
26			Other Combatant/Fleet Support	Command/Command Ship			2
27				Fleet Ocean Tugs/Fleet Ocean Tugs			4
28				Material Support/Submarine Tender			2
29				Salvage Ships/Salvage Ships			4
30				Surveillance/Surveillance			5
31			Other Combatant/Fleet Support Total				17
32			Other Combatant/Mine Warfare Type Ships	Mine Countermeasures Ships/Mine Countermeasures Ship			14
33			Other Combatant/Mine Warfare Type Ships Total				14
34		Combatant Ship Total					285
35	Grand Total						285
36							
37							

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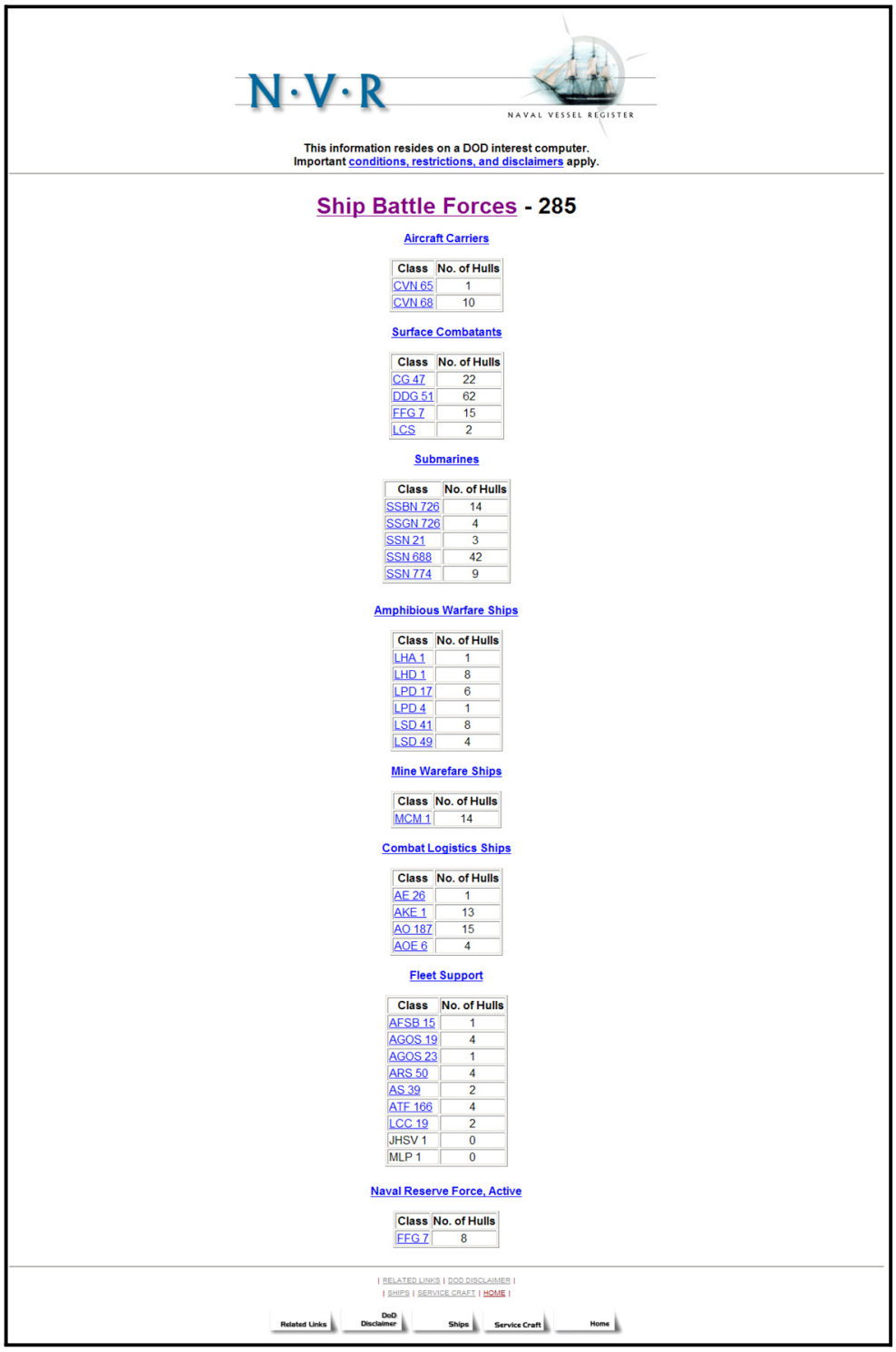
Figure 31. NVR page on Ship Battle Forces composition



N·V·R

NAVAL VESSEL REGISTER

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Important conditions, restrictions, and disclaimers apply.

Ship Battle Forces - 285

Aircraft Carriers

Class	No. of Hulls
CVN 65	1
CVN 68	10

Surface Combatants

Class	No. of Hulls
CG 47	22
DDG 51	62
FFG 7	15
LCS	2

Submarines

Class	No. of Hulls
SSBN 726	14
SSGN 726	4
SSN 21	3
SSN 688	42
SSN 774	9

Amphibious Warfare Ships

Class	No. of Hulls
LHA 1	1
LHD 1	8
LPD 17	6
LPD 4	1
LSD 41	8
LSD 49	4

Mine Warefare Ships

Class	No. of Hulls
MCM 1	14

Combat Logistics Ships

Class	No. of Hulls
AE 26	1
AKE 1	13
AO 187	15
AOE 6	4

Fleet Support

Class	No. of Hulls
AFSB 15	1
AGOS 19	4
AGOS 23	1
ARS 50	4
AS 39	2
ATF 166	4
LCC 19	2
JHSV 1	0
MLP 1	0

Naval Reserve Force, Active

Class	No. of Hulls
FFG 7	8

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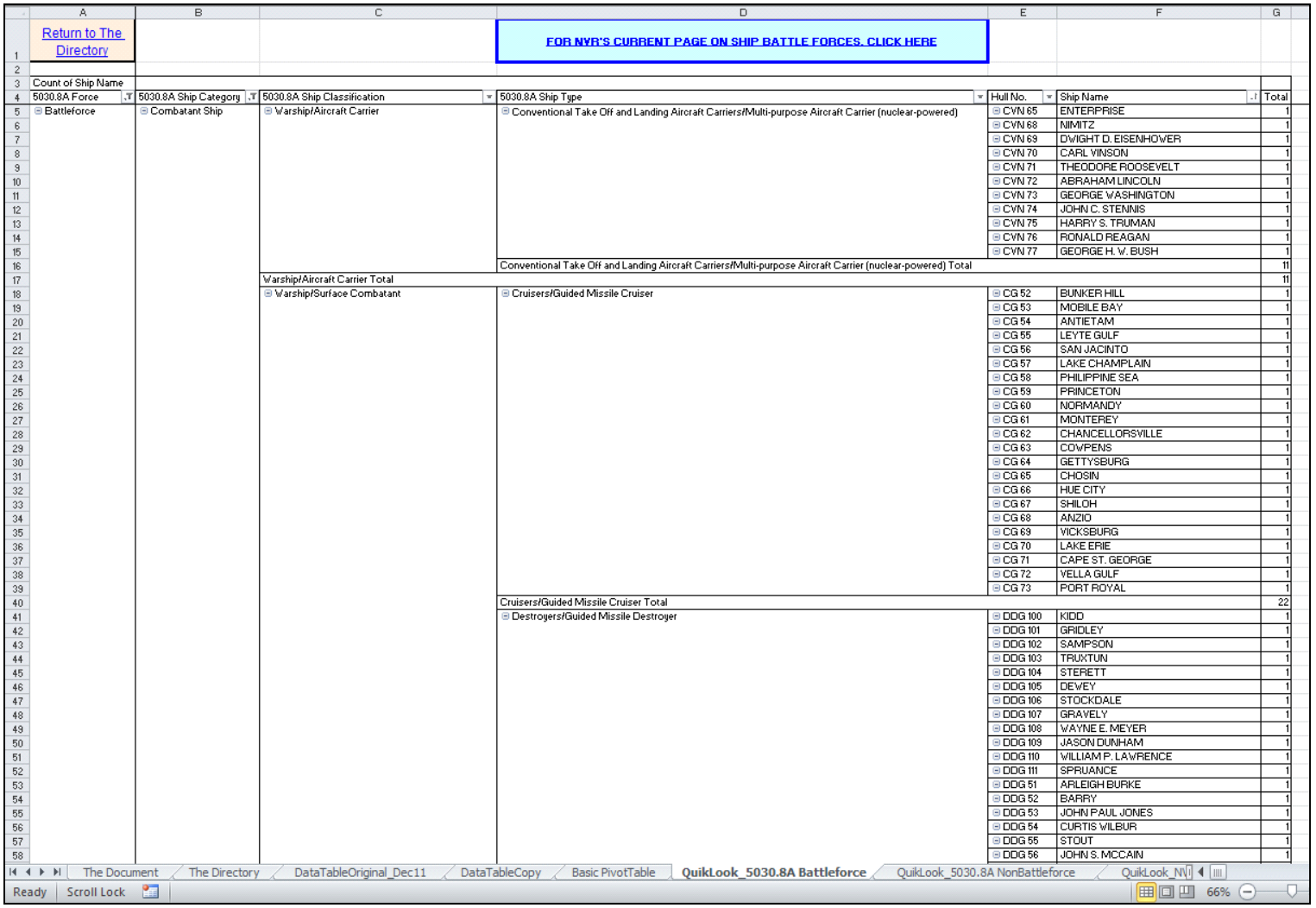
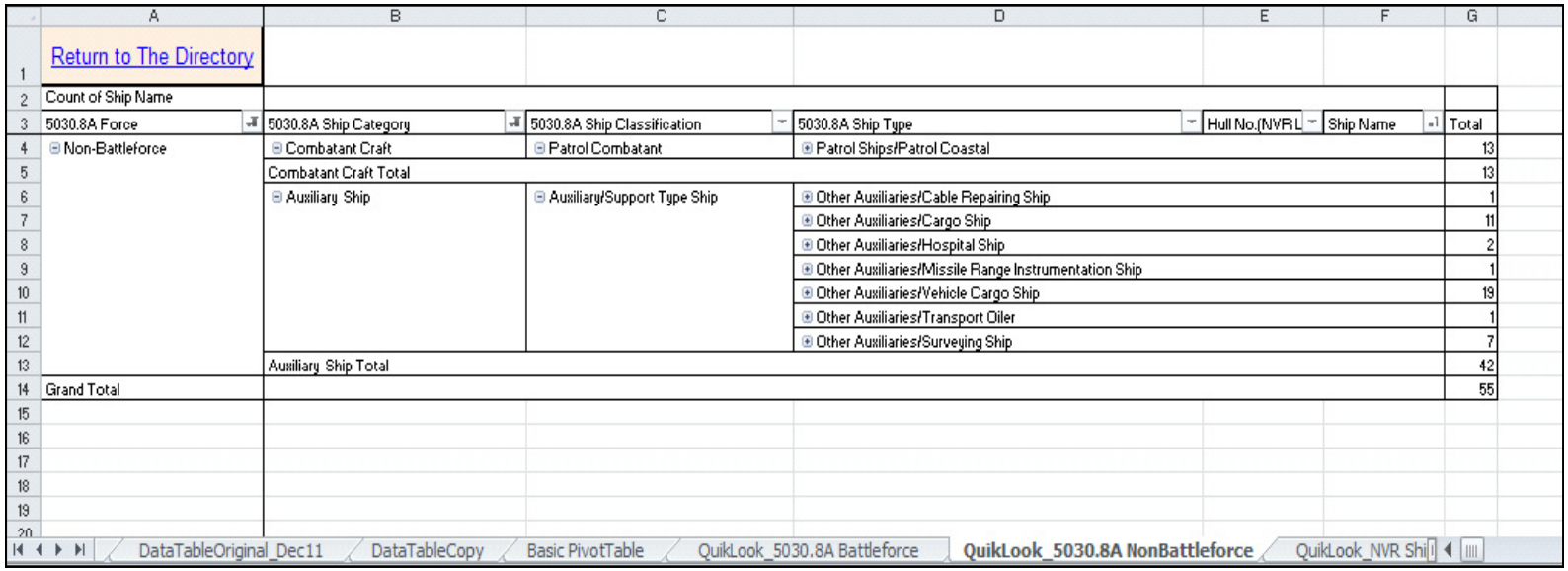
Figure 32. Top portion of the fully expanded view of *QuikLook_5030.8A Battleforce*



	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)	CVN 65	ENTERPRISE	1
6					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				Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered) Total			11
17			Warship/Aircraft Carrier Total				11
18			Warship/Surface Combatant	Cruisers/Guided Missile Cruiser	CG 52	BUNKER HILL	1
19					CG 53	MOBILE BAY	1
20					CG 54	ANTIETAM	1
21					CG 55	LEYTE GULF	1
22					CG 56	SAN JACINTO	1
23					CG 57	LAKE CHAMPLAIN	1
24					CG 58	PHILIPPINE SEA	1
25					CG 59	PRINCETON	1
26					CG 60	NORMANDY	1
27					CG 61	MONTEREY	1
28					CG 62	CHANCELLORSVILLE	1
29					CG 63	COWPENS	1
30					CG 64	GETTYSBURG	1
31					CG 65	CHOSIN	1
32					CG 66	HUE CITY	1
33					CG 67	SHILOH	1
34					CG 68	ANZIO	1
35					CG 69	VICKSBURG	1
36					CG 70	LAKE ERIE	1
37					CG 71	CAPE ST. GEORGE	1
38					CG 72	VELLA GULF	1
39					CG 73	PORT ROYAL	1
40				Cruisers/Guided Missile Cruiser Total			22
41				Destroyers/Guided Missile Destroyer	DDG 100	KIDD	1
42					DDG 101	GRIDLEY	1
43					DDG 102	SAMPSON	1
44					DDG 103	TRUXTUN	1
45					DDG 104	STERETT	1
46					DDG 105	DEWEY	1
47					DDG 106	STOCKDALE	1
48					DDG 107	GRAVELY	1
49					DDG 108	WAYNE E. MEYER	1
50					DDG 109	JASON DUNHAM	1
51					DDG 110	WILLIAM P. LAWRENCE	1
52					DDG 111	SPRUANCE	1
53					DDG 51	ARLEIGH BURKE	1
54					DDG 52	BARRY	1
55					DDG 53	JOHN PAUL JONES	1
56					DDG 54	CURTIS WILBUR	1
57					DDG 55	STOUT	1
58					DDG 56	JOHN S. MCCAIN	1

Figure 33. Compressed view of *QuikLook_5030.8A NonBattleforce*



	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.(NVR L	Ship Name	Total
4	⊟ Non-Battleforce	⊟ Combatant Craft	⊟ Patrol Combatant	⊞ Patrol Ships/Patrol Coastal			13
5		Combatant Craft Total					13
6		⊟ Auxiliary Ship	⊟ Auxiliary/Support Type Ship	⊞ Other Auxiliaries/Cable Repairing Ship			1
7				⊞ Other Auxiliaries/Cargo Ship			11
8				⊞ Other Auxiliaries/Hospital Ship			2
9				⊞ Other Auxiliaries/Missile Range Instrumentation Ship			1
10				⊞ Other Auxiliaries/Vehicle Cargo Ship			19
11				⊞ Other Auxiliaries/Transport Oiler			1
12				⊞ Other Auxiliaries/Surveying Ship			7
13		Auxiliary Ship Total					42
14	Grand Total						55
15							
16							
17							
18							
19							
20							

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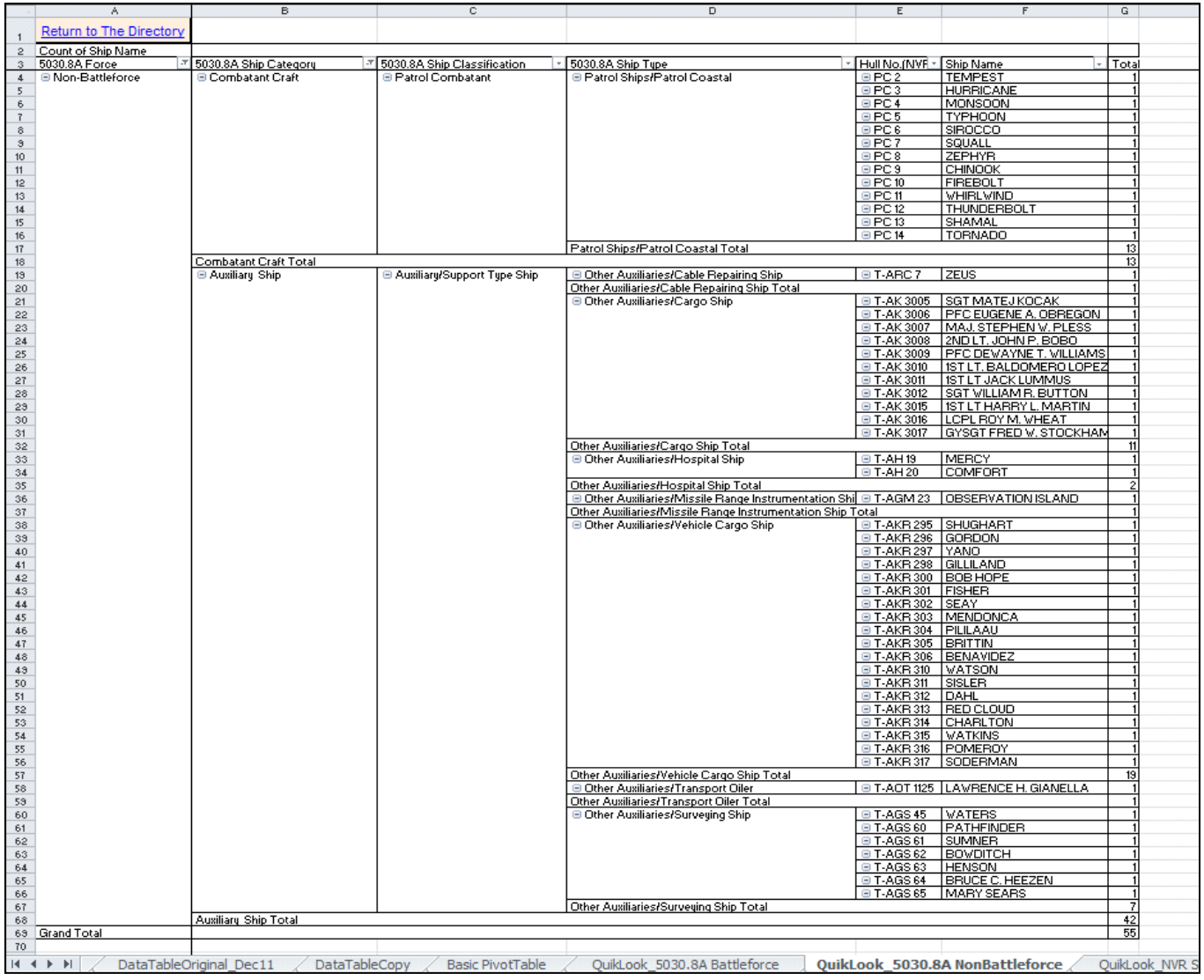
Figure 34. Expanded view of *QuikLook_5030.8A NonBattleforce*



	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.(NVR	Ship Name	Total
4	Non-Battleforce	Combatant Craft	Patrol Combatant	Patrol Ships/Patrol Coastal	PC 2	TEMPEST	1
5					PC 3	HURRICANE	1
6					PC 4	MONSOON	1
7					PC 5	TYPHOON	1
8					PC 6	SIROCCO	1
9					PC 7	SQUALL	1
10					PC 8	ZEPHYR	1
11					PC 9	CHINOOK	1
12					PC 10	FIREBOLT	1
13					PC 11	WHIRLWIND	1
14					PC 12	THUNDERBOLT	1
15					PC 13	SHAMAL	1
16					PC 14	TORNADO	1
17				Patrol Ships/Patrol Coastal Total			13
18		Combatant Craft Total					13
19		Auxiliary Ship	Auxiliary/Support Type Ship	Other Auxiliaries/Cable Repairing Ship	T-ARC 7	ZEUS	1
20				Other Auxiliaries/Cable Repairing Ship Total			1
21				Other Auxiliaries/Cargo Ship	T-AK 3005	SGT MATEJ KOCAK	1
22					T-AK 3006	PFC EUGENE A. OBREGON	1
23					T-AK 3007	MAJ. STEPHEN W. PLESS	1
24					T-AK 3008	2ND LT. JOHN P. BOBO	1
25					T-AK 3009	PFC DEWAYNE T. WILLIAMS	1
26					T-AK 3010	1ST LT. BALDOMERO LOPEZ	1
27					T-AK 3011	1ST LT JACK LUMMUS	1
28					T-AK 3012	SGT WILLIAM R. BUTTON	1
29					T-AK 3015	1ST LT HARRY L. MARTIN	1
30					T-AK 3016	LCPL ROY M. WHEAT	1
31					T-AK 3017	GYSGT FRED W. STOCKHAM	1
32				Other Auxiliaries/Cargo Ship Total			11
33				Other Auxiliaries/Hospital Ship	T-AH 19	MERCY	1
34					T-AH 20	COMFORT	1
35				Other Auxiliaries/Hospital Ship Total			2
36				Other Auxiliaries/Missile Range Instrumentation Shi	T-AGM 23	OBSERVATION ISLAND	1
37				Other Auxiliaries/Missile Range Instrumentation Ship Total			1
38				Other Auxiliaries/Vehicle Cargo Ship	T-AKR 295	SHUGHART	1
39					T-AKR 296	GORDON	1
40					T-AKR 297	YANO	1
41					T-AKR 298	GILLILAND	1
42					T-AKR 300	BOB HOPE	1
43					T-AKR 301	FISHER	1
44					T-AKR 302	SEAY	1
45					T-AKR 303	MENDONCA	1
46					T-AKR 304	PILILAAU	1
47					T-AKR 305	BRITTIN	1
48					T-AKR 306	BENAVIDEZ	1
49					T-AKR 310	WATSON	1
50					T-AKR 311	SISLER	1
51					T-AKR 312	DAHL	1
52					T-AKR 313	RED CLOUD	1
53					T-AKR 314	CHARLTON	1
54					T-AKR 315	WATKINS	1
55					T-AKR 316	POMEROY	1
56					T-AKR 317	SODERMAN	1
57				Other Auxiliaries/Vehicle Cargo Ship Total			19
58				Other Auxiliaries/Transport Oiler	T-AOT 1125	LAWRENCE H. GIANELLA	1
59				Other Auxiliaries/Transport Oiler Total			1
60				Other Auxiliaries/Surveying Ship	T-AGS 45	WATERS	1
61					T-AGS 60	PATHFINDER	1
62					T-AGS 61	SUMNER	1
63					T-AGS 62	BOWDITCH	1
64					T-AGS 63	HENSON	1
65					T-AGS 64	BRUCE C. HEEZEN	1
66					T-AGS 65	MARY SEARS	1
67				Other Auxiliaries/Surveying Ship Total			7
68		Auxiliary Ship Total					42
69	Grand Total						55
70							

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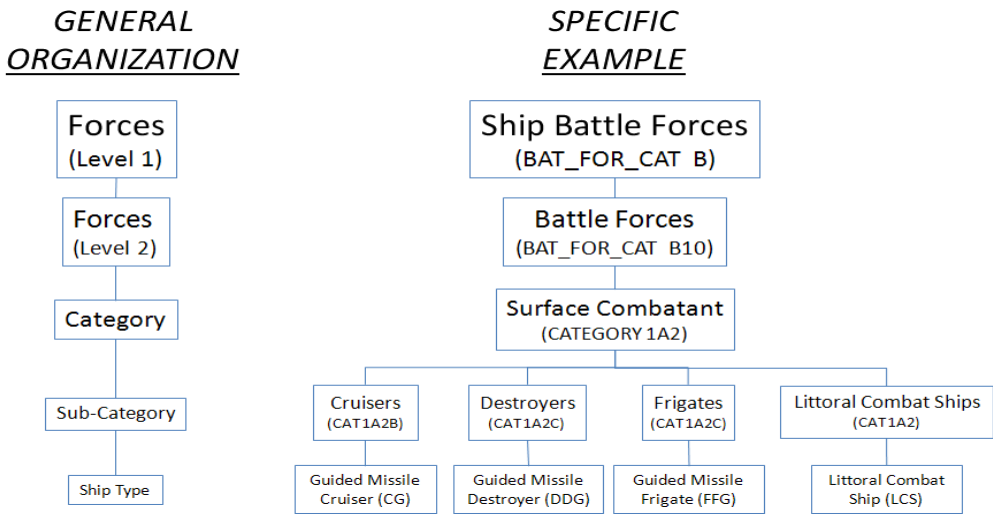
The Former NVR classification and counting system. The former NVR system of organization and counting is much like the system previously used in the Navy Budget. (For example, see [48].) In figure 35, we show the general scheme of organization. The term, "Forces," is used at two different levels in this system. For the sake of distinguishing them, we label them as "Level 1" and "Level 2" respectively.

In figure 35, we present the case of surface combatants as a specific example. In the example here, we've annotated the boxes with the associated Battle Force Categories (BAT_FOR_CATs) and Budget Categories to show the linkages to the old budget system.

Figure 35. Former NVR system: General organization with an example



In figures 36 and 37, we show the composition of the two Level-1 Forces: the Ship Battle Forces, and the Local Defense and Miscellaneous Support Forces.

Figure 36. Composition of NVR Ship Battle Forces

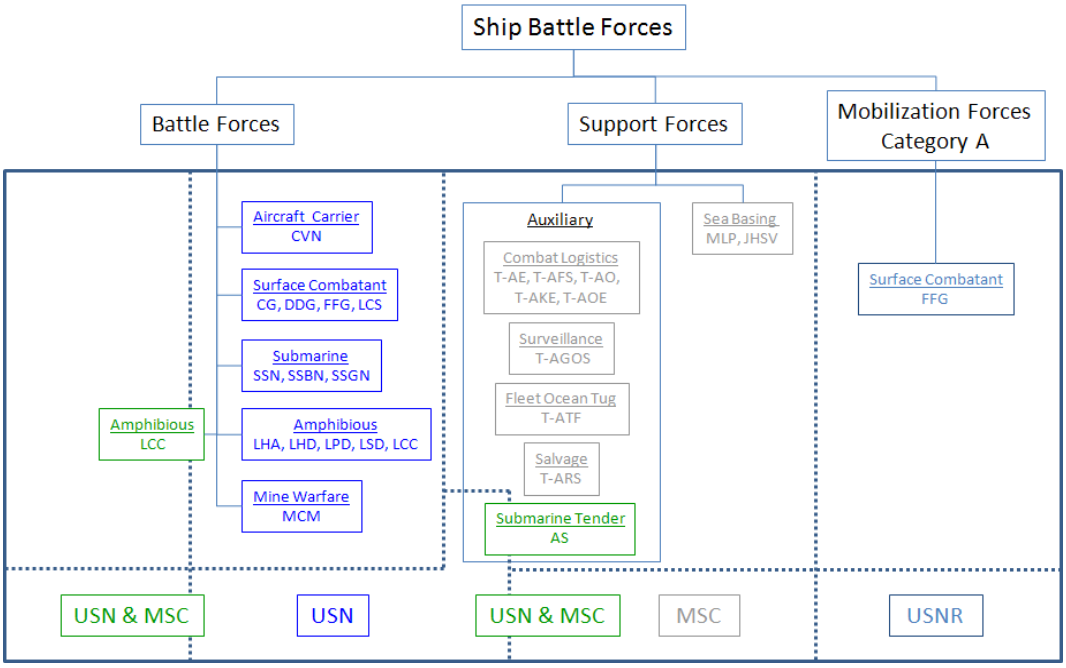
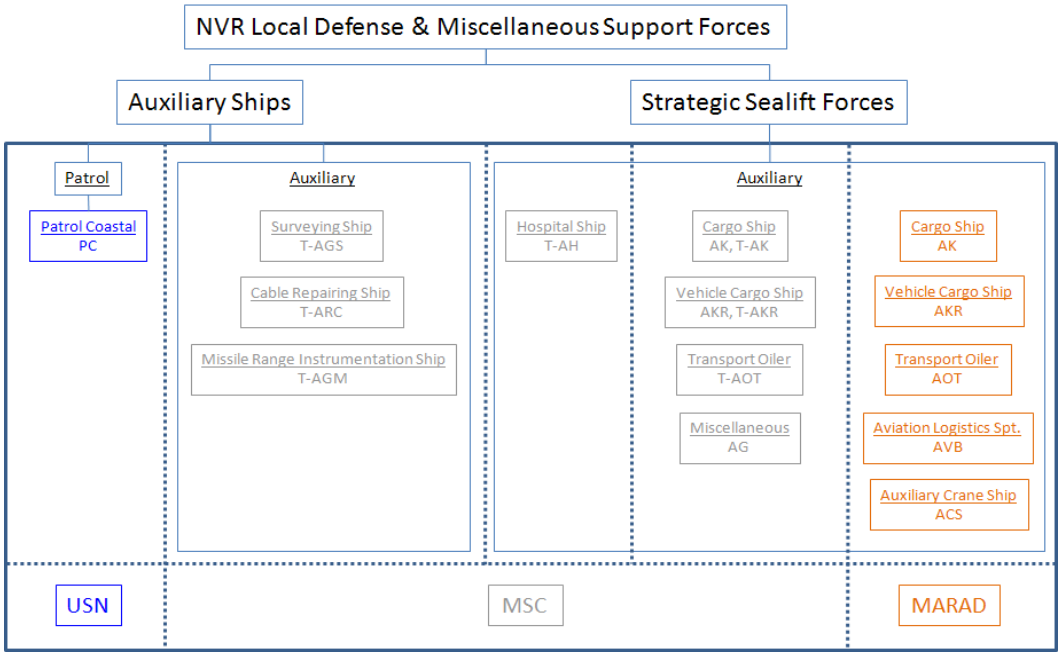


Figure 37. Composition of NVR Local Defense and Miscellaneous Support Forces



The two QuikLook pivot tables for the former NVR scheme of organization are:

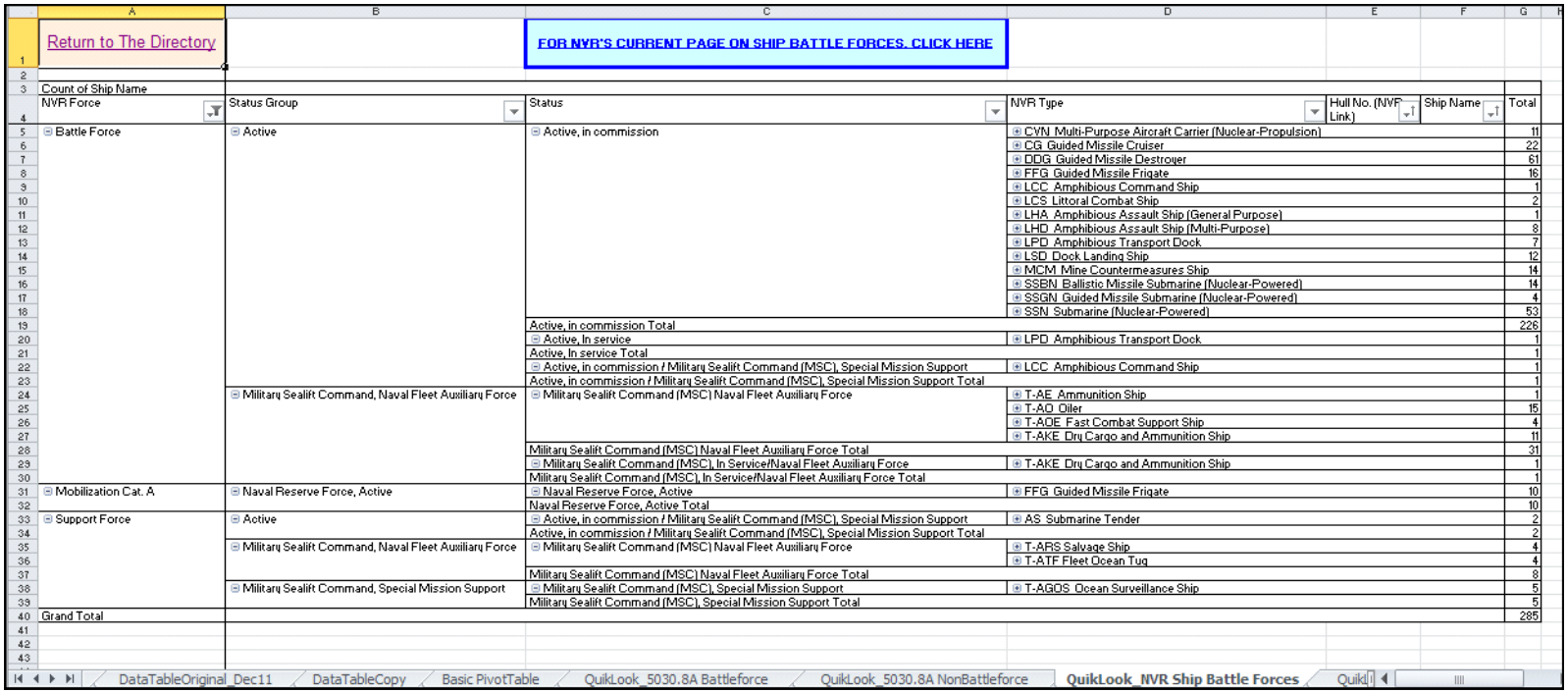
- *QuikLook_NVR Ship Battle Forces*
- *QuikLook_NVRLocDef&MiscSptForces*

Figures 38 displays the initial, compressed view of *QuikLook_NVR Ship Battle Forces*. The grouping progresses from NVR Force – Level 2, through the NVR Status Categories and Status designations, the NVR Ship Type, to the individual Ship Names and Hull Numbers.

Figure 39 shows a fully expanded view that reveals the individual ships comprising the various levels of organization.

In like manner, figures 40 and 41 show the respective views of *Quiklook_NVRLocDef&MiscSptForces*.

Figure 38. Initial view of *QuikLook_NVR Ship Battle Forces*



	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	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)			11
6				CG Guided Missile Cruiser			22
7				DDG Guided Missile Destroyer			61
8				FFG Guided Missile Frigate			16
9				LCC Amphibious Command Ship			1
10				LCS Littoral Combat Ship			2
11				LHA Amphibious Assault Ship (General Purpose)			1
12				LHD Amphibious Assault Ship (Multi-Purpose)			8
13				LPD Amphibious Transport Dock			7
14				LSD Dock Landing Ship			12
15				MCM Mine Countermeasures Ship			14
16				SSBN Ballistic Missile Submarine (Nuclear-Powered)			14
17				SSGN Guided Missile Submarine (Nuclear-Powered)			4
18				SSN Submarine (Nuclear-Powered)			53
19			Active, in commission Total				226
20			Active, In service	LPD Amphibious Transport Dock			1
21			Active, In service Total				1
22			Active, in commission / Military Sealift Command (MSC), Special Mission Support	LCC Amphibious Command Ship			1
23			Active, in commission / Military Sealift Command (MSC), Special Mission Support Total				1
24		Military Sealift Command, Naval Fleet Auxiliary Force	Military Sealift Command (MSC) Naval Fleet Auxiliary Force	T-AE Ammunition Ship			1
25				T-AO Oiler			15
26				T-AOE Fast Combat Support Ship			4
27				T-AKE Dry Cargo and Ammunition Ship			11
28			Military Sealift Command (MSC) Naval Fleet Auxiliary Force Total				31
29			Military Sealift Command (MSC), In Service/Naval Fleet Auxiliary Force	T-AKE Dry Cargo and Ammunition Ship			1
30			Military Sealift Command (MSC), In Service/Naval Fleet Auxiliary Force Total				1
31	Mobilization Cat. A	Naval Reserve Force, Active	Naval Reserve Force, Active	FFG Guided Missile Frigate			10
32			Naval Reserve Force, Active Total				10
33	Support Force	Active	Active, in commission / Military Sealift Command (MSC), Special Mission Support	AS Submarine Tender			2
34			Active, in commission / Military Sealift Command (MSC), Special Mission Support Total				2
35		Military Sealift Command, Naval Fleet Auxiliary Force	Military Sealift Command (MSC) Naval Fleet Auxiliary Force	T-ARS Salvage Ship			4
36				T-ATF Fleet Ocean Tug			4
37			Military Sealift Command (MSC) Naval Fleet Auxiliary Force Total				8
38		Military Sealift Command, Special Mission Support	Military Sealift Command (MSC), Special Mission Support	T-AGOS Ocean Surveillance Ship			5
39			Military Sealift Command (MSC), Special Mission Support Total				5
40	Grand Total						285
41							
42							
43							

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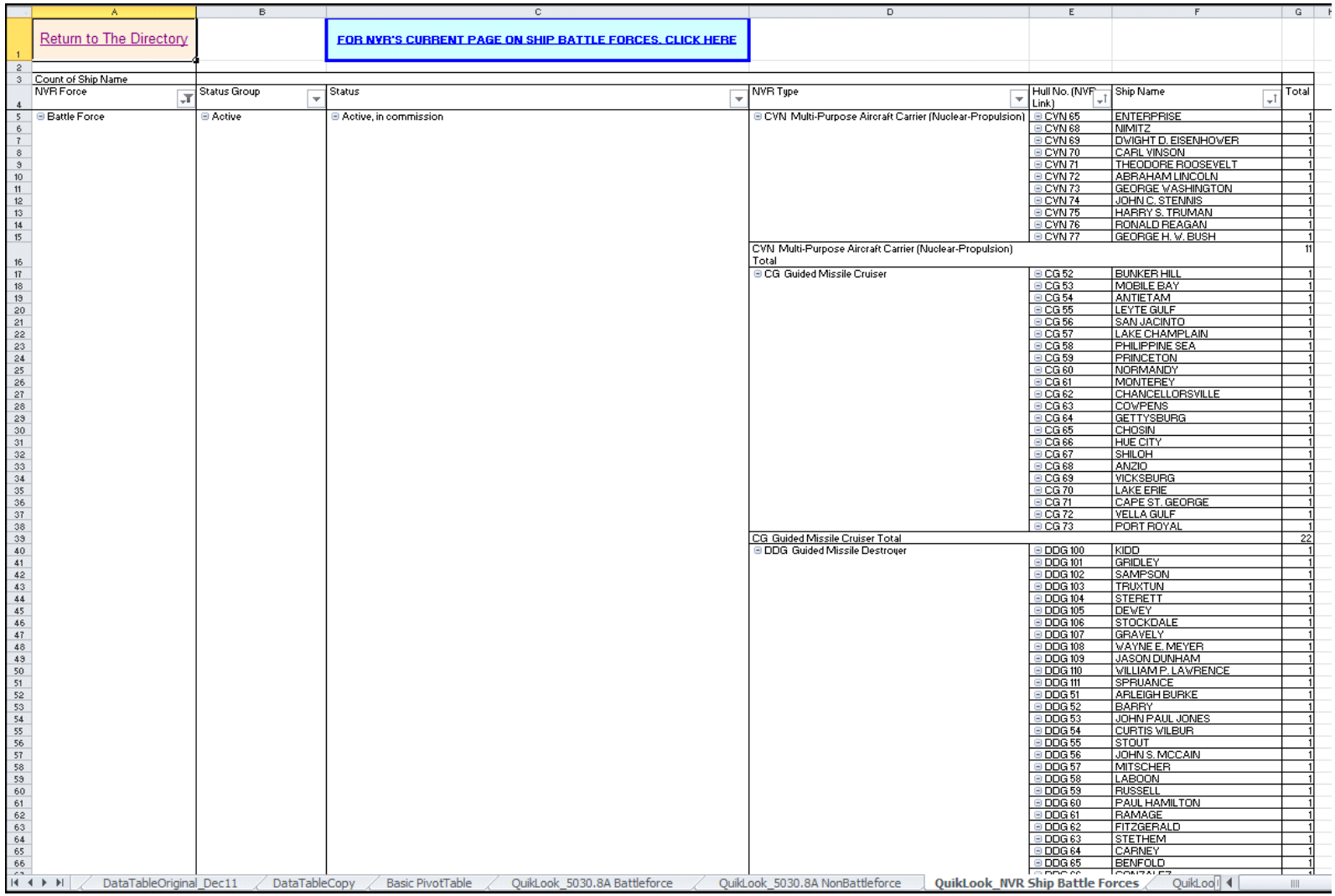
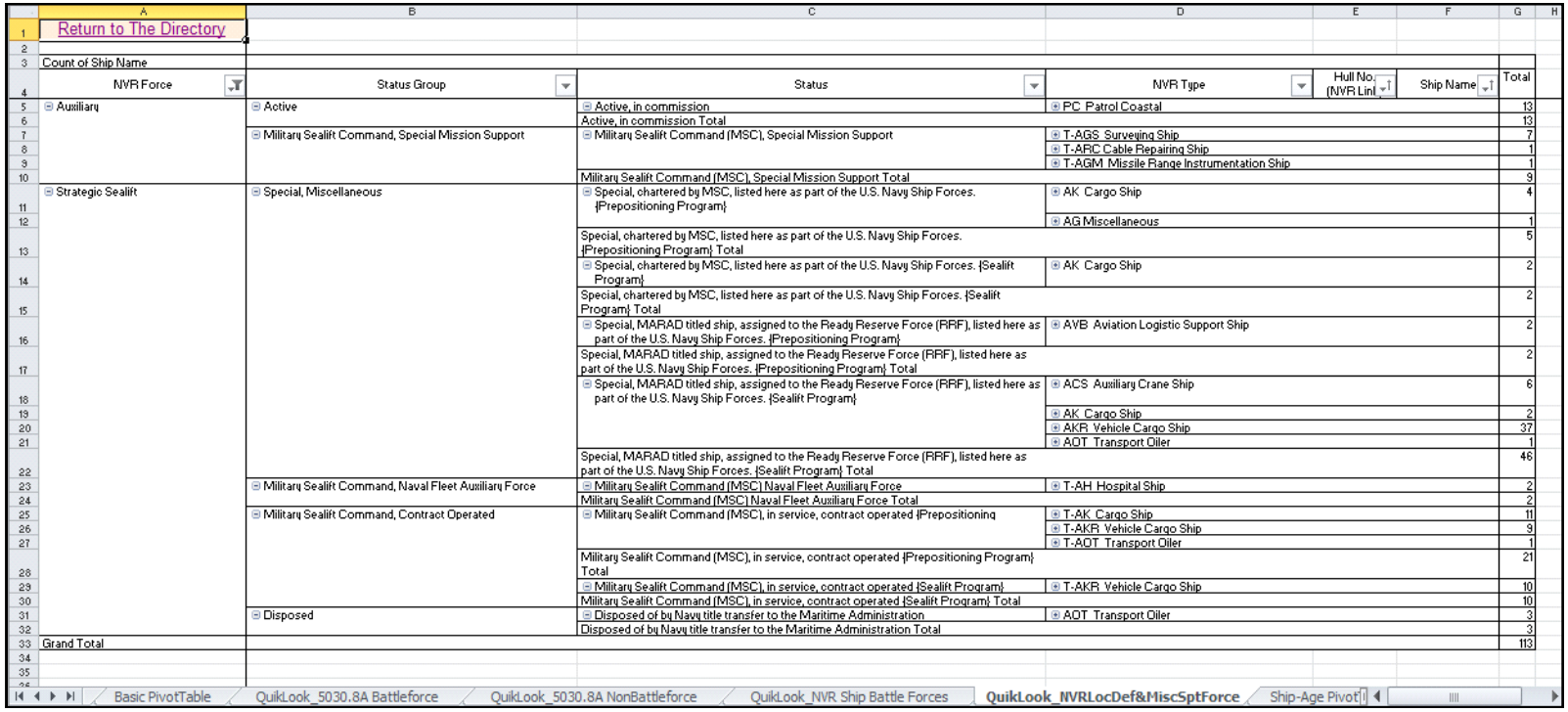
Figure 39. Top portion of the fully expanded view of *QuikLook_NVR Ship Battle Forces*



	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	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)	CVN 65	ENTERPRISE	1
6					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				CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion) Total			11
17				CG Guided Missile Cruiser	CG 52	BUNKER HILL	1
18					CG 53	MOBILE BAY	1
19					CG 54	ANTIETAM	1
20					CG 55	LEYTE GULF	1
21					CG 56	SAN JACINTO	1
22					CG 57	LAKE CHAMPLAIN	1
23					CG 58	PHILIPPINE SEA	1
24					CG 59	PRINCETON	1
25					CG 60	NORMANDY	1
26					CG 61	MONTEREY	1
27					CG 62	CHANCELLORSVILLE	1
28					CG 63	COWPENS	1
29					CG 64	GETTYSBURG	1
30					CG 65	CHOSIN	1
31					CG 66	HUE CITY	1
32					CG 67	SHILOH	1
33					CG 68	ANZIO	1
34					CG 69	VICKSBURG	1
35					CG 70	LAKE ERIE	1
36					CG 71	CAPE ST. GEORGE	1
37					CG 72	VELLA GULF	1
38					CG 73	PORT ROYAL	1
39				CG Guided Missile Cruiser Total			22
40				DDG Guided Missile Destroyer	DDG 100	KIDD	1
41					DDG 101	GRIDLEY	1
42					DDG 102	SAMPSON	1
43					DDG 103	TRUXTUN	1
44					DDG 104	STERETT	1
45					DDG 105	DEWEY	1
46					DDG 106	STOCKDALE	1
47					DDG 107	GRAVELY	1
48					DDG 108	WAYNE E. MEYER	1
49					DDG 109	JASON DUNHAM	1
50					DDG 110	WILLIAM P. LAWRENCE	1
51					DDG 111	SPRUANCE	1
52					DDG 51	ARLEIGH BURKE	1
53					DDG 52	BARRY	1
54					DDG 53	JOHN PAUL JONES	1
55					DDG 54	CURTIS WILBUR	1
56					DDG 55	STOUT	1
57					DDG 56	JOHN S. MCCAIN	1
58					DDG 57	MITSCHER	1
59					DDG 58	LABOON	1
60					DDG 59	RUSSELL	1
61					DDG 60	PAUL HAMILTON	1
62					DDG 61	RAMAGE	1
63					DDG 62	FITZGERALD	1
64					DDG 63	STETHEM	1
65					DDG 64	CARNEY	1
66					DDG 65	BENFOLD	1

DataTableOriginal_Dec11 | DataTableCopy | Basic PivotTable | QuikLook_5030.8A Battleforce | QuikLook_5030.8A NonBattleforce | QuikLook_NVR Ship Battle Forces | QuikLoo

Figure 40. Initial view of *QuikLook_NVRLocDef&MiscSptForces*



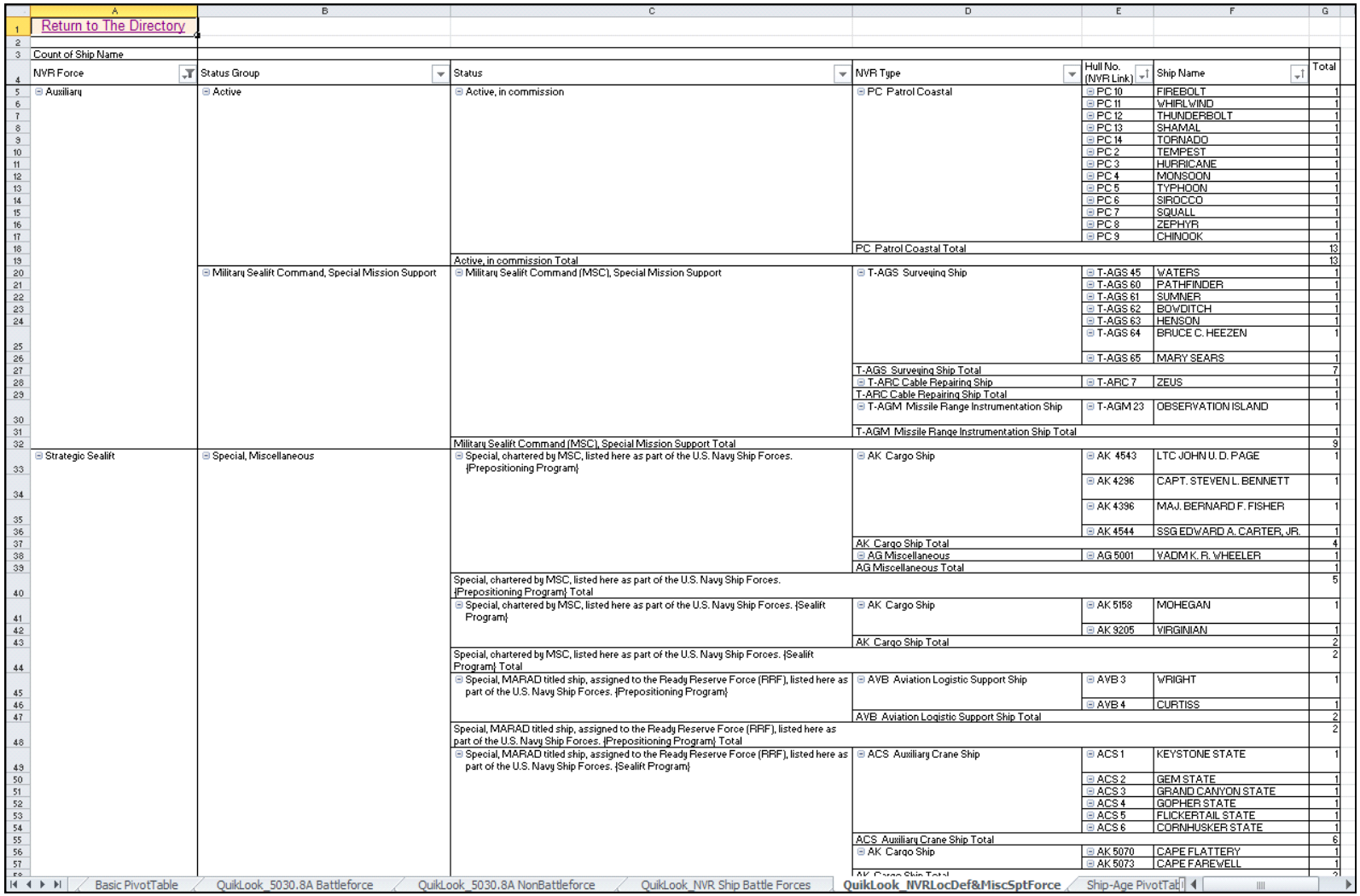
Return to The Directory

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
		Active, in commission Total				13
	Military Sealift Command, Special Mission Support	Military Sealift Command (MSC), Special Mission Support	T-AGS Surveying Ship			7
			T-ARC Cable Repairing Ship			1
			T-AGM Missile Range Instrumentation Ship			1
		Military Sealift Command (MSC), Special Mission Support Total				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			4
			AG Miscellaneous			1
		Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. {Prepositioning Program} Total				5
		Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. {Sealift Program}	AK Cargo Ship			2
		Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. {Sealift Program} Total				2
		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. {Prepositioning Program} Total				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. {Sealift Program} Total				46
	Military Sealift Command, Naval Fleet Auxiliary Force	Military Sealift Command (MSC) Naval Fleet Auxiliary Force	T-AH Hospital Ship			2
		Military Sealift Command (MSC) Naval Fleet Auxiliary Force Total				2
	Military Sealift Command, Contract Operated	Military Sealift Command (MSC), in service, contract operated {Prepositioning	T-AK Cargo Ship			11
			T-AKR Vehicle Cargo Ship			9
			T-AOT Transport Oiler			1
		Military Sealift Command (MSC), in service, contract operated {Prepositioning Program} Total				21
		Military Sealift Command (MSC), in service, contract operated {Sealift Program}	T-AKR Vehicle Cargo Ship			10
		Military Sealift Command (MSC), in service, contract operated {Sealift Program} Total				10
	Disposed	Disposed of by Navy title transfer to the Maritime Administration	AOT Transport Oiler			3
		Disposed of by Navy title transfer to the Maritime Administration Total				3
Grand Total						113

Basic PivotTable | QuikLook_5030.8A Battleforce | QuikLook_5030.8A NonBattleforce | QuikLook_NVR Ship Battle Forces | **QuikLook_NVRLocDef&MiscSptForce** | Ship-Age Pivot

Figure 41. Top portion of the fully expanded *QuikLook_NVRLocDef&MiscSptForces*



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	PC 10	FIREBOLT	1
				PC 11	WHIRLWIND	1
				PC 12	THUNDERBOLT	1
				PC 13	SHAMAL	1
				PC 14	TORNADO	1
				PC 2	TEMPEST	1
				PC 3	HURRICANE	1
				PC 4	MONSOON	1
				PC 5	TYPHOON	1
				PC 6	SIROCCO	1
				PC 7	SQUALL	1
				PC 8	ZEPHYR	1
				PC 9	CHINOOK	1
			PC Patrol Coastal Total			13
		Active, in commission Total				13
	Military Sealift Command, Special Mission Support	Military Sealift Command (MSC), Special Mission Support	T-AGS Surveying Ship	T-AGS 45	WATERS	1
				T-AGS 60	PATHFINDER	1
				T-AGS 61	SUMNER	1
				T-AGS 62	BOWDITCH	1
				T-AGS 63	HENSON	1
				T-AGS 64	BRUCE C. HEEZEN	1
				T-AGS 65	MARY SEARS	1
			T-AGS Surveying Ship Total			7
			T-ARC Cable Repairing Ship	T-ARC 7	ZEUS	1
			T-ARC Cable Repairing Ship Total			1
			T-AGM Missile Range Instrumentation Ship	T-AGM 23	OBSERVATION ISLAND	1
			T-AGM Missile Range Instrumentation Ship Total			1
		Military Sealift Command (MSC), Special Mission Support Total				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	AK 4543	LTC JOHN U. D. PAGE	1
				AK 4296	CAPT. STEVEN L. BENNETT	1
				AK 4396	MAJ. BERNARD F. FISHER	1
				AK 4544	SSG EDWARD A. CARTER, JR.	1
			AK Cargo Ship Total			4
			AG Miscellaneous	AG 5001	VADM K. R. WHEELER	1
			AG Miscellaneous Total			1
		Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. {Prepositioning Program} Total				5
		Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. {Sealift Program}	AK Cargo Ship	AK 5158	MOHEGAN	1
				AK 9205	VIRGINIAN	1
			AK Cargo Ship Total			2
		Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. {Sealift Program} Total				2
		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	AVB 3	WRIGHT	1
				AVB 4	CURTISS	1
			AVB Aviation Logistic Support Ship Total			2
		Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. {Prepositioning Program} Total				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	ACS 1	KEYSTONE STATE	1
				ACS 2	GEM STATE	1
				ACS 3	GRAND CANYON STATE	1
				ACS 4	GOPHER STATE	1
				ACS 5	FLICKERTAIL STATE	1
				ACS 6	CORNHUSKER STATE	1
			ACS Auxiliary Crane Ship Total			6
			AK Cargo Ship	AK 5070	CAPE FLATTERY	1
				AK 5073	CAPE FAREWELL	1

Basic PivotTable | QuikLook_5030.8A Battleforce | QuikLook_5030.8A NonBattleforce | QuikLook_NVR Ship Battle Forces | QuikLook_NVRLocDef&MiscSptForce | Ship-Age PivotTab

Ship-Age PivotTable

In the section on "Changes in this update," we discussed the addition of the *Ship-Age PivotTable* and the associated changes in *DataTableOriginal_Dec11* including the methodologies for calculating ship age. We will not repeat that presentation here.

Instead, we focus on the information presented in the pivot table. In figure 42, we show the opening view of S*hip-Age PivotTable*. The table shows age statistics according to the organizing scheme of the 5030.8A Instruction. Specifically, you can see the statistics down to the grouping of 5030.8A Ship Type.

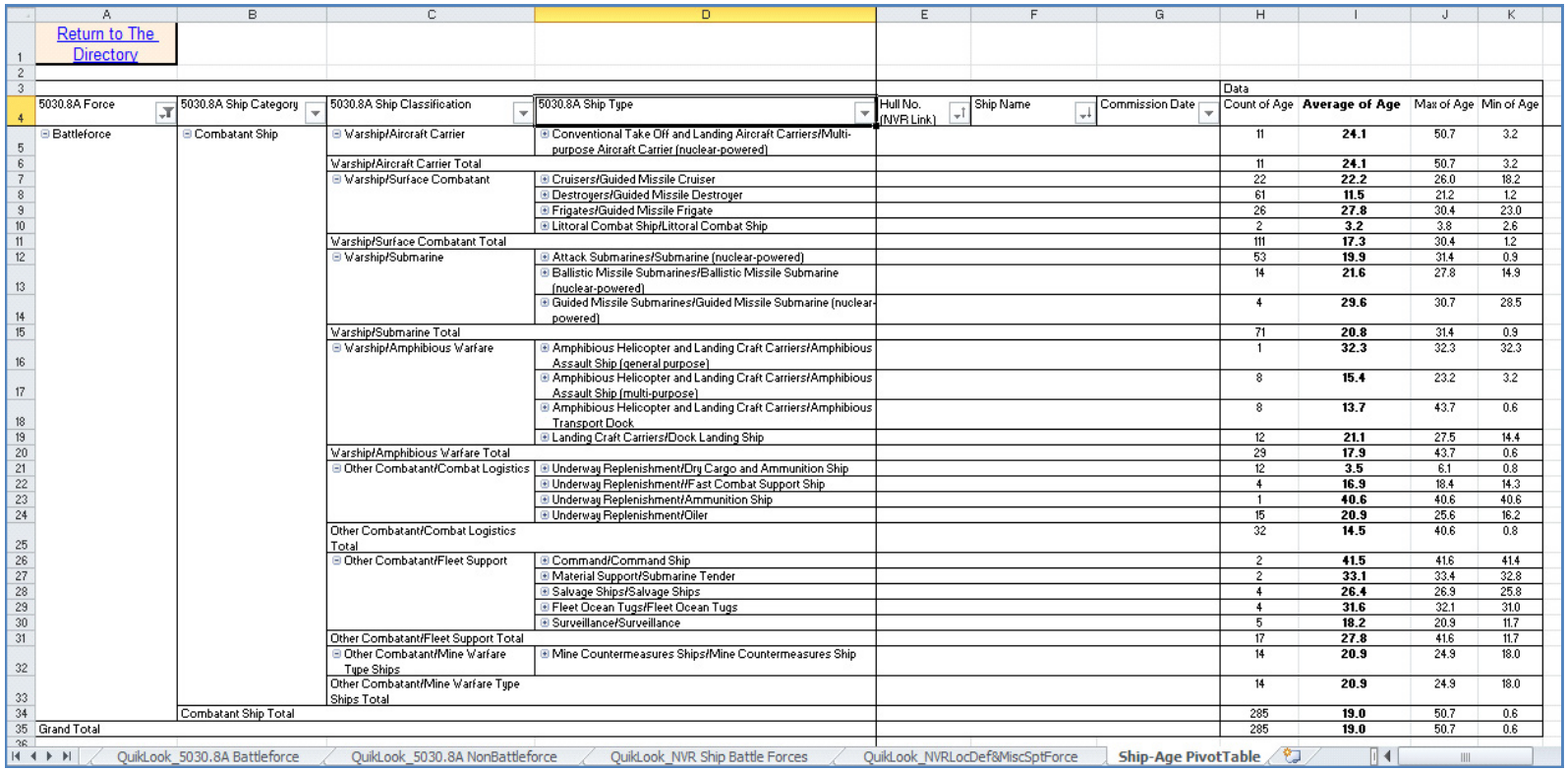
The fields in the Data section of the table include four statistics

- *Count of Age*, i.e., the number of ships in the group
- *Average of Age* for ships in the group
- *Max of Age*, i.e., the age of the oldest ship in the group
- *Min of Age*, i.e., the age of the newest ship in the group

In figure 43, we show the top portion of the fully expanded *Ship-Age Table*. This view shows the individual ships in the group along with their respective dates of commission. Subtotals for the groups are shown as well.

So for example, there are 11 Navy aircraft carriers currently in the Battleforce. They are 24.1 years old on average. The oldest is USS *Enterprise* (CVN 65) at 50.7 years. And the newest is USS *George H.W. Bush* (CVN 77) at 3.2 years.

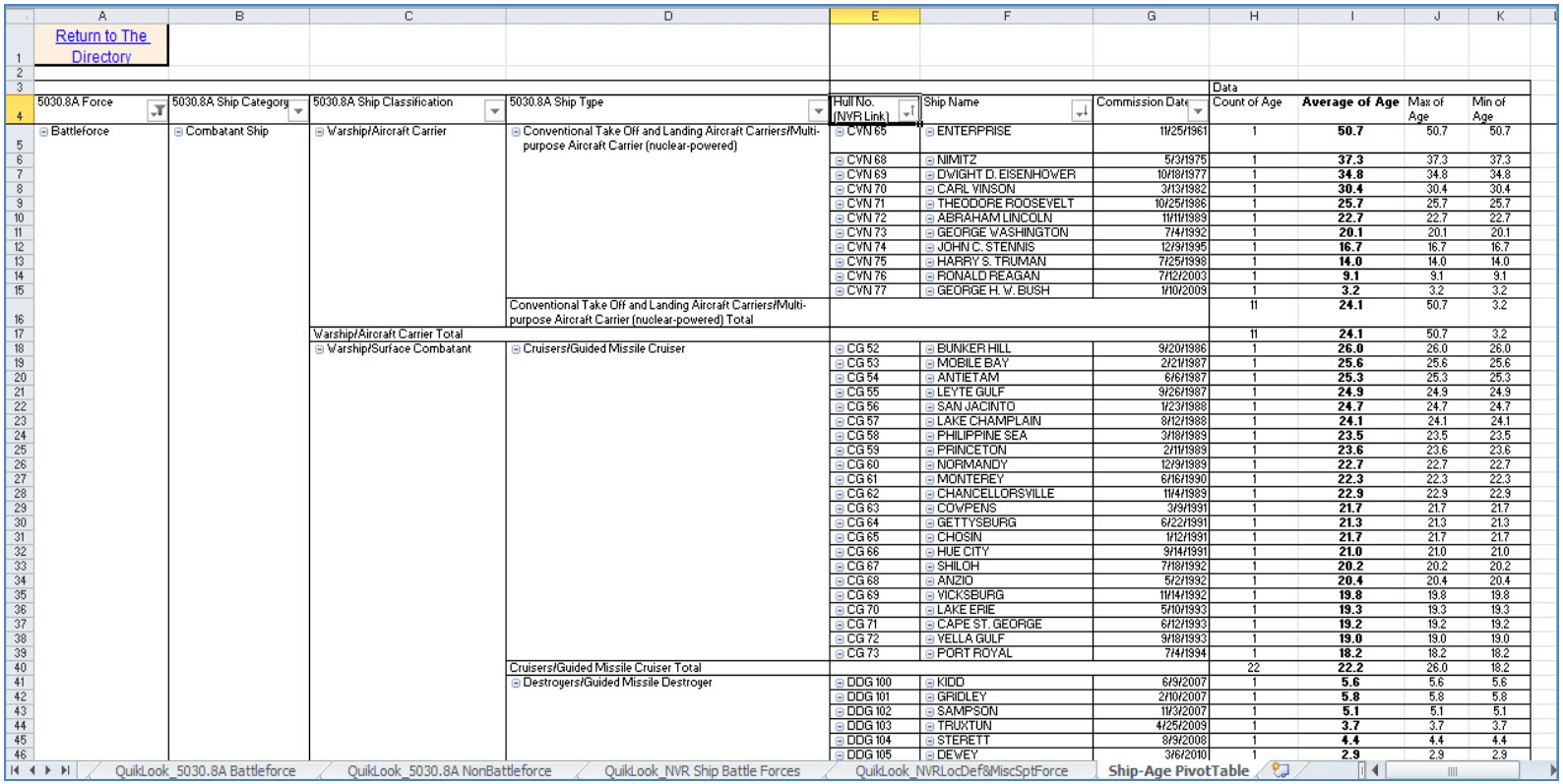
Figure 42. Initial view of *Ship-Age PivotTable*



	A	B	C	D	E	F	G	H	I	J	K
1	Return to The Directory										
2											
3								Data			
4	5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No. (NVR Link)	Ship Name	Commission Date	Count of Age	**Average of Age**	Max of Age	Min of Age
5	⊟ Battleforce	⊟ Combatant Ship	⊟ Warship/Aircraft Carrier	⊞ Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)				11	**24.1**	50.7	3.2
6			Warship/Aircraft Carrier Total					11	**24.1**	50.7	3.2
7			⊟ Warship/Surface Combatant	⊞ Cruisers/Guided Missile Cruiser				22	**22.2**	26.0	18.2
8				⊞ Destroyers/Guided Missile Destroyer				61	**11.5**	21.2	1.2
9				⊞ Frigates/Guided Missile Frigate				26	**27.8**	30.4	23.0
10				⊞ Littoral Combat Ship/Littoral Combat Ship				2	**3.2**	3.8	2.6
11			Warship/Surface Combatant Total					111	**17.3**	30.4	1.2
12			⊟ Warship/Submarine	⊞ Attack Submarines/Submarine (nuclear-powered)				53	**19.9**	31.4	0.9
13				⊞ Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)				14	**21.6**	27.8	14.9
14				⊞ Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)				4	**29.6**	30.7	28.5
15			Warship/Submarine Total					71	**20.8**	31.4	0.9
16			⊟ Warship/Amphibious Warfare	⊞ Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)				1	**32.3**	32.3	32.3
17				⊞ Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)				8	**15.4**	23.2	3.2
18				⊞ Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock				8	**13.7**	43.7	0.6
19				⊞ Landing Craft Carriers/Dock Landing Ship				12	**21.1**	27.5	14.4
20			Warship/Amphibious Warfare Total					29	**17.9**	43.7	0.6
21			⊟ Other Combatant/Combat Logistics	⊞ Underway Replenishment/Dry Cargo and Ammunition Ship				12	**3.5**	6.1	0.8
22				⊞ Underway Replenishment/Fast Combat Support Ship				4	**16.9**	18.4	14.3
23				⊞ Underway Replenishment/Ammunition Ship				1	**40.6**	40.6	40.6
24				⊞ Underway Replenishment/Oiler				15	**20.9**	25.6	16.2
25			Other Combatant/Combat Logistics Total					32	**14.5**	40.6	0.8
26			⊟ Other Combatant/Fleet Support	⊞ Command/Command Ship				2	**41.5**	41.6	41.4
27				⊞ Material Support/Submarine Tender				2	**33.1**	33.4	32.8
28				⊞ Salvage Ships/Salvage Ships				4	**26.4**	26.9	25.8
29				⊞ Fleet Ocean Tugs/Fleet Ocean Tugs				4	**31.6**	32.1	31.0
30				⊞ Surveillance/Surveillance				5	**18.2**	20.9	11.7
31			Other Combatant/Fleet Support Total					17	**27.8**	41.6	11.7
32			⊟ Other Combatant/Mine Warfare Type Ships	⊞ Mine Countermeasures Ships/Mine Countermeasures Ship				14	**20.9**	24.9	18.0
33			Other Combatant/Mine Warfare Type Ships Total					14	**20.9**	24.9	18.0
34		Combatant Ship Total						285	**19.0**	50.7	0.6
35	Grand Total							285	**19.0**	50.7	0.6

QuikLook_5030.8A Battleforce | QuikLook_5030.8A NonBattleforce | QuikLook_NVR Ship Battle Forces | QuikLook_NVRLocDef&MiscSptForce | **Ship-Age PivotTable**

Figure 43. Top portion of the fully expanded view of *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	Commission 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)	CVN 65	ENTERPRISE	11/25/1961	1	**50.7**	50.7	50.7
				CVN 68	NIMITZ	5/3/1975	1	**37.3**	37.3	37.3
				CVN 69	DWIGHT D. EISENHOWER	10/18/1977	1	**34.8**	34.8	34.8
				CVN 70	CARL VINSON	3/13/1982	1	**30.4**	30.4	30.4
				CVN 71	THEODORE ROOSEVELT	10/25/1986	1	**25.7**	25.7	25.7
				CVN 72	ABRAHAM LINCOLN	11/11/1989	1	**22.7**	22.7	22.7
				CVN 73	GEORGE WASHINGTON	7/4/1992	1	**20.1**	20.1	20.1
				CVN 74	JOHN C. STENNIS	12/9/1995	1	**16.7**	16.7	16.7
				CVN 75	HARRY S. TRUMAN	7/25/1998	1	**14.0**	14.0	14.0
				CVN 76	RONALD REAGAN	7/12/2003	1	**9.1**	9.1	9.1
				CVN 77	GEORGE H. W. BUSH	1/10/2009	1	**3.2**	3.2	3.2
			Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered) Total				11	**24.1**	50.7	3.2
		Warship/Aircraft Carrier Total					11	**24.1**	50.7	3.2
		Warship/Surface Combatant	Cruisers/Guided Missile Cruiser	CG 52	BUNKER HILL	9/20/1986	1	**26.0**	26.0	26.0
				CG 53	MOBILE BAY	2/21/1987	1	**25.6**	25.6	25.6
				CG 54	ANTIETAM	6/6/1987	1	**25.3**	25.3	25.3
				CG 55	LEYTE GULF	9/26/1987	1	**24.9**	24.9	24.9
				CG 56	SAN JACINTO	1/23/1988	1	**24.7**	24.7	24.7
				CG 57	LAKE CHAMPLAIN	8/12/1988	1	**24.1**	24.1	24.1
				CG 58	PHILIPPINE SEA	3/18/1989	1	**23.5**	23.5	23.5
				CG 59	PRINCETON	2/11/1989	1	**23.6**	23.6	23.6
				CG 60	NORMANDY	12/9/1989	1	**22.7**	22.7	22.7
				CG 61	MONTEREY	6/16/1990	1	**22.3**	22.3	22.3
				CG 62	CHANCELLORSVILLE	11/4/1989	1	**22.9**	22.9	22.9
				CG 63	COWPENS	3/9/1991	1	**21.7**	21.7	21.7
				CG 64	GETTYSBURG	6/22/1991	1	**21.3**	21.3	21.3
				CG 65	CHOSIN	1/12/1991	1	**21.7**	21.7	21.7
				CG 66	HUE CITY	9/14/1991	1	**21.0**	21.0	21.0
				CG 67	SHILOH	7/18/1992	1	**20.2**	20.2	20.2
				CG 68	ANZIO	5/2/1992	1	**20.4**	20.4	20.4
				CG 69	VICKSBURG	11/14/1992	1	**19.8**	19.8	19.8
				CG 70	LAKE ERIE	5/10/1993	1	**19.3**	19.3	19.3
				CG 71	CAPE ST. GEORGE	6/12/1993	1	**19.2**	19.2	19.2
				CG 72	VELLA GULF	9/18/1993	1	**19.0**	19.0	19.0
				CG 73	PORT ROYAL	7/4/1994	1	**18.2**	18.2	18.2
			Cruisers/Guided Missile Cruiser Total				22	**22.2**	26.0	18.2
			Destroyers/Guided Missile Destroyer	DDG 100	KIDD	6/9/2007	1	**5.6**	5.6	5.6
				DDG 101	GRIDLEY	2/10/2007	1	**5.8**	5.8	5.8
				DDG 102	SAMPSON	11/3/2007	1	**5.1**	5.1	5.1
				DDG 103	TRUXTUN	4/25/2009	1	**3.7**	3.7	3.7
				DDG 104	STERETT	8/9/2008	1	**4.4**	4.4	4.4
				DDG 105	DEWEY	3/6/2010	1	**2.9**	2.9	2.9

QuikLook_5030.8A Battleforce | QuikLook_5030.8A NonBattleforce | QuikLook_NVR Ship Battle Forces | QuikLook_NVRLocDef&MiscSptForce | **Ship-Age PivotTable**

Appendix

Listing of the Visual Basic code for the macro, AgeFuncFlt

```
' This is the initial function. It takes in a start date and an end date.
Public Function AgeFuncFlt(stdate As Variant, endate As Variant)

   ' Dim our variables.
   Dim stvar As String
   Dim stmon As String
   Dim stday As String
   Dim styr As String
   Dim endvar As String
   Dim endmon As String
   Dim endday As String
   Dim endyr As String
   Dim stmonf As Integer
   Dim stdayf As Integer
   Dim styrf As Integer
   Dim styrflt As Single
   Dim endmonf As Integer
   Dim enddayf As Integer
   Dim endyrf As Integer
   Dim endyrflt As Single
   Dim years As Single
   Dim yearsflt As Single


   ' This variable will be used to modify string length.
   Dim fx As Integer
   fx = 0


   ' Calls custom function sfunc which runs the Search worksheet function
   ' and returns the results.
   ' Searches for the first "/" sign in the start date.
   stvar = sfunc("/", stdate)
```

```
' Parse the month and day from the start date.

stmon = Left(stdate, sfunc("/", stdate) - 1)

stday = Mid(stdate, stvar + 1, sfunc("/", stdate, sfunc("/", stdate) + 1) - stvar - 1)



' Check the length of the day and month strings and modify the string
' length variable.
If Len(stday) = 1 Then fx = fx + 1
If Len(stmon) = 2 Then fx = fx + 1


' Parse the year, using information from the string length variable.
styr = Right(stdate, Len(stdate) - (sfunc("/", stdate) + 1) - stvar + fx)


' Change the text values we obtained to integers for calculation
' purposes.
stmonf = CInt(stmon)
stdayf = CInt(stday)
styrf = CInt(styr)
styrflt = styrf + stmonf / 12 + stdayf / 365.25


' Check for valid date entries.
If stmonf < 1 Or stmonf > 12 Or stdayf < 1 Or stdayf > 31 Or styrf < 1 Then
    AgeFuncFlt = "Invalid Date"
    Exit Function
End If


' Reset the string length variable.
fx = 0


' Parse the first "/" sign from the end date.
endvar = sfunc("/", endate)


' Parse the month and day from the end date.
endmon = Left(endate, sfunc("/", endate) - 1)
endday = Mid(endate, endvar + 1, sfunc("/", endate, sfunc("/", endate) + 1) - endvar - 1)
```

```
' Check the length of the day and month strings and modify the string
' length variable.
If Len(endday) = 1 Then fx = fx + 1
If Len(endmon) = 2 Then fx = fx + 1


' Parse the year, using information from the string length variable.
endyr = Right(endate, Len(endate) - (sfunc("/", endate) + 1) - endvar + fx)


' Change the text values we obtained to integers for calculation
' purposes.
endmonf = CInt(endmon)
enddayf = CInt(endday)
endyrf = CInt(endyr)
endyrflt = endyrf + endmonf / 12 + enddayf / 365.25


' Check for valid date entries.
If endmonf < 1 Or endmonf > 12 Or enddayf < 1 Or enddayf > 31 Or endyrf < 1 Then
   AgeFuncFlt = "Invalid Date"
   Exit Function
End If


' Determine the initial number of years by subtracting the first and
' second year.
years = endyrflt - styrflt


' Look at the month and day values to make sure a full year has passed.
' If stmonf > endmonf Then
'    years = years - 1
'End If


'If stmonf = endmonf And stdayf > enddayf Then
'    years = years - 1
'End If
```

```
    ' Make sure that we are not returning a negative number and, if not,
    ' return the years.
    If years < 0 Then
        AgeFuncFlt = "Invalid Date"
    Else
        AgeFuncFlt = years
    End If

End Function

' This is a second function that the first will call.
' It runs the Search worksheet function with arguments passed from AgeFunc.
' It is used so that the code is easier to read.
Public Function sfunc(x As Variant, y As Variant, Optional z As Variant)
    sfunc = Application.WorksheetFunction.Search(x, y, z)
End Function
```

Glossary

ACS	Auxiliary Crane Ship
AG	Miscellaneous Auxiliary
AOT/T-AOT	Transport Oiler
AS	Submarine Tender
AVB	Aviation Logistic Support Ship
BAT_FOR_CAT	Battle Force Category
CG	Guided Missile Cruiser
CVN	Multi-purpose Aircraft Carrier (Nuclear-Propulsion)
DANFS	Dictionary of American Naval Fighting Ships
DDG	Guided Missile Destroyer
FFG	Guided Missile Frigate
ISDB	Integrated Ship Database
FOS	Full Operating Status
LCC	Amphibious Command Ship
LCS	Littoral Combat Ship
LHA	Amphibious Assault Ship (General Purpose)
LHD	Amphibious Assault Ship (Multi-Purpose)
LPD	Amphibious Transport Dock
LSD	Dock Landing Ship
MARAD	Maritime Administration (U.S. Department of Transportation)
MCM	Mine Countermeasures Ship
MLP	Mobile Landing Platform
MSC	Military Sealift Command
NAVSEA	Naval Sea Systems Command
NAVSHIPSO	NAVSEA Shipbuilding Support Office
NDRF	National Defense Reserve Fleet
NHHC	Naval History & Heritage Command
NVR	Naval Vessel Register
OOA	Out of Action
PC	Patrol Coastal
PCU	Pre-Commissioning Unit

PMARS	Property Management & Archive Record System (MARAD)
ROS	Reduced Operating Status
RRF	Ready Reserve Fleet
SASDT	Ship Annual Supplemental Data Tables (Formerly, Ships and Aircraft Supplemental Data Tables)
SCN	Shipbuilding and Conversion, Navy
SSBN	Ballistic Missile Submarine (nuclear-powered)
SSGN	Guided Missile Submarine (nuclear-powered)
SSN	Attack Submarine (nuclear-powered)
T-AE	Ammunition Ship
T-AGM	Missile Range Instrumentation Ship
T-AGOS	Ocean Surveillance Ship
T-AGS	Surveying Ship
T-AH	Hospital Ship
AK/T-AK	Cargo Ship
T-AKE	Dry Cargo and Ammunition Ship
AKR/T-AKR	Vehicle Cargo Ship
T-AO	Oiler
T-AOE	Fast Combat Support Ship
T-ARC	Cable Repairing Ship
T-ARS	Salvage and Rescue Ship
T-ATF	Fleet Ocean Tug
UIC	Unit Identification Code
USNS	United States Naval Ship
USS	United States Ship

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