







# REFERENCE LIST








No.	Country	Ship name	Ship class	Shipyard	Year	HVAC System	ISUS Cooling	Chilled Water Plant	Provision Cooling Plant	Firefighting
1	 Brazil	Tikuna	209 Type 1400 mod.	Arsenal de Marine Rio de Janeiro	2005	X		X	X	
2		Tapajó	209 Type 1400	Arsenal de Marine Rio de Janeiro	1999	X		X	X	
3		Timbira	209 Type 1400	Arsenal de Marine Rio de Janeiro	1996	X		X	X	
4		Tamoio	209 Type 1400	Arsenal de Marine Rio de Janeiro	1994	X		X	X	
5		Tupi	209 Type 1400	HDW	1990	X		X	X	
8	 Colombia		209 Type 1200 Modification	HDW	2016	X		X	X	
9			209 Type 1200 Modification	HDW	2013	X		X	X	
10			209 Type 1200 Modification	HDW	2010	X		X	X	
11			209 Type 1200 Modification	HDW	2008	X		X	X	
6		Pijao	209 Type 1200	Howaldtswerke-Deutsche Werft Kiel	1975 / 2012	X		X	X	
7	Tayrona	209 Type 1200	Howaldtswerke-Deutsche Werft Kiel	1975 / 2012	X		X	X		
12	 Denmark	Springeren	207	Kockums	1991	X		X	X	
13		Saelen	207	Kockums	1990	X		X	X	
14		Tumleren	207	Kockums	1990	X		X	X	
15	 Egypt	NB 449	209/1400	TKMS	under construction	X	X	X	X	
16		NB 450	209/1400	TKMS	under construction	X	X	X	X	
17		NB 447	209/1400	TKMS	2014	X	X	X	X	
18		NB 448	209/1400	TKMS	2014	X	X	X	X	
19			Barracuda Class	DCNS	2006	X				


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20	France									
21										
23	 Germany	U36	212A	Howaldtswerke-Deutsche Werft Kiel	2011	X		X	X	X
24		U35	212A	Howaldtswerke-Deutsche Werft Kiel	2010	X		X	X	X
25		U34	212A	Thyssen Nordseewerke Emden	2005	X		X	X	X
26		U33	212A	Howaldtswerke-Deutsche Werft Kiel	2004	X		X	X	X
27		U32	212A	Thyssen Nordseewerke Emden	2003	X		X	X	X
28		U31	212A	Howaldtswerke-Deutsche Werft Kiel	2002	X		X	X	X
22		U15-18 U22-26 U28-30	206A	HDW/TNSW	1990-91	X			X	
29	 Greece	Katsonis	214	Hellenic Shipyard Skaramanga	2007	X		X	X	X
30		Pipinos	214	Hellenic Shipyard Skaramanga	2006	X		X	X	X
31		Matrozos	214	Hellenic Shipyard Skaramanga	2005	X		X	X	X
32		Papanikolis	214	Howaldtswerke-Deutsche Werft Kiel	2004	X		X	X	X
39		Pontos	mod. 209-1200 Neptun II Poseidon Class	HDW / Kockums	2004	X	X	X	X	
33		Okeanos	mod. 209-1200 Neptun II Poseidon Class	HDW / Kockums	2003	X	X	X	X	
34		Poseidon	mod. 209-1200 Neptun II Poseidon Class	HDW / Kockums	2002	X	X	X	X	
35		Proteus	mod. 209-1100 Neptun I Glavkos class	HDW	1995	X	X	X	X	

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36		Triton	mod. 209-1100 Neptun I Glavkos class	HDW	1994	X	X	X	X	
37		Nireus	mod. 209-1100 Neptun I Glavkos class	HDW	1993	X	X	X	X	
38	 Greece	Glavkos	mod. 209-1100 Neptun I Glavkos class	HDW	1992	X	X	X	X	
40	 India	Shankul	Shishumar (209) class (type 1500)	Mazagon Dock Ltd. Mumbai	1994	X		X		X
41		Shalki	Shishumar (209) class (type 1500)	Mazagon Dock Ltd. Mumbai	1992	X		X		X
43	 Indonesia	H.7713	209	DSME	under construction	X			X	
44		H.7714	209	DSME	under construction	X			X	
42		H.7712	209	DSME	2016	X			X	
45	 Israel		800 mod.	Howaldtswerke-Deutsche Werft Kiel	2015	X		X		
46		Rahav	800 mod.	Howaldtswerke-Deutsche Werft Kiel	2011	X		X		
47		Tanin	800 mod.	Howaldtswerke-Deutsche Werft Kiel	2010	X		X		
48		Tekuma	800	Howaldtswerke/ Thyssen Nord- seewerke	2000	X				
49		Dolphin	800	Howaldtswerke/ Thyssen Nord- seewerke	1999	X				
50		Leviathan	800	Howaldtswerke/ Thyssen Nord- seewerke	1999	X				

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51	 Italy	Romeo Romei	212A	Fincantieri	2013	X			X	X
52		Pietro Venuti	212A	Fincantieri	2012	X			X	X
53		Scirè	212A	Fincantieri	2006	X			X	X
54		Salvatore Todaro	212A	Fincantieri	2005	X			X	X
55	 Norway	Ula	Ula Class Modification	TNSW	2008	X		X	X	
56		Utvaer	Ula Class Modification	TNSW	2007	X		X	X	
57		Uredd	Ula Class Modification	TNSW	2007	X		X	X	
58		Uthaug	Ula Class Modification	TNSW	2007	X		X	X	
59		Utsira	6 Ula class	TNSW	1992	X		X	X	
60		Uthaug	6 Ula class	TNSW	1991	X		X	X	
61		Utstein	6 Ula class	TNSW	1991	X		X	X	
62		Uredd	6 Ula class	TNSW	1990	X		X	X	
63		Utvaer	6 Ula class	TNSW	1990	X		X	X	
64		Ula	6 Ula class	TNSW	1989	X		X	X	
65		Arpão	U209 (U214)	Thyssen Nordseewerke Emden	2008	X		X	X	X

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66	Portugal	Tridente	U209 (U214)	Thyssen Nordseewerke Emden	2007	X		X	X	X
67	 Singapore		214		under construction					X
68			214		under construction					X
69										
70										
71	 South Africa	Queen Modjadji	209/1400 mod	Thyssen Nordseewerke Emden	2008	X		X	X	X
72		Charlotte Maxeke	209/1400 mod	Thyssen Nordseewerke Emden	2007	X		X	X	X
73		Manthatisi	209/1400 mod	Howaldtswerke-Deutsche Werft Kiel	2005	X		X	X	X
74	 South Korea	H.7716	KSS III	Daewoo	under construction					X
75		H.7717	KSS III	Daewoo	under construction					X
76			214	Daewoo/Hyundai	2015	X		X	X	X
77			214	Daewoo/Hyundai	2014	X		X	X	X
78		Yu Gwan-sun	214	Daewoo/Hyundai	2013	X		X	X	X
79			214	Daewoo/Hyundai	2013	X		X	X	X
80		Yun Bong-gil	214	Hyundai Ulsan	2012	X		X	X	X

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81		Kim Jwa-Jin	214	Daewoo/ Hyundai	2011	X		X	X	X
82		An Jung-geun	214	Hyundai Ulsan	2009	X		X	X	X
83		Jung Ji	214	Hyundai Ulsan	2008	X		X	X	X
84		Son Won-il	214	Hyundai Ulsan	2007	X		X	X	X
85		Lee Eokgi	209/1200	Daewoo Okpo	2001	X		X	X	X
86		Lee Sunsin	209/1200	Daewoo Okpo	2000	X		X	X	X
87	 South Korea	Na Daeyong	209/1200	Daewoo Okpo	2000	X		X	X	X
88		Jeong Un	209/1200	Daewoo Okpo	1998	X		X	X	X
89		Choi Muson	209/1200	Daewoo Okpo	1996	X		X	X	X
90		Park Wi	209/1200	Daewoo Okpo	1996	X		X	X	X
91		Lee Jongmu	209/1200	Daewoo Okpo	1996	X		X	X	X
92		Lee Chun	209/1200	Daewoo Okpo	1994	X			X	X
93		Chang Bogo	209/1200	Howaldtswerke-Deutsche Werft Kiel	1993	X			X	X
94	 Turkey		214 mod.	TKMS / Gölçük Naval Shipyard	under construction	X		X	X	X
95			214 mod.	TKMS / Gölçük Naval Shipyard	under construction	X		X	X	X

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96			214 mod.	TKMS / Gölcük Naval Shipyards	under construction	X		X	X	X
97			214 mod.	TKMS / Gölcük Naval Shipyards	under construction	X		X	X	X
98			214 mod.	TKMS / Gölcük Naval Shipyards	under construction	X		X	X	X
99			214 mod.	TKMS / Gölcük Naval Shipyards	under construction	X		X	X	X
100		Inönü	209/1400	Gölcük	2007	X	X	X	X	
101		Reis	209/1400	Gölcük	2006	X	X	X	X	
102		Canakkale	209/1400	Gölcük	2005	X	X	X	X	
103		Gür	209/1400	Gölcük	2003	X	X	X	X	
104	Turkey	Anafartalar	209/1400	Gölcük	1998	X		X	X	
105		Mart	209/1400	Gölcük	1995	X		X	X	
106		Sakarya	209/1400	Gölcük	1994	X		X	X	
107		Preveze	209/1400	Gölcük	1990	X		X	X	