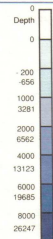


**The Oceans**

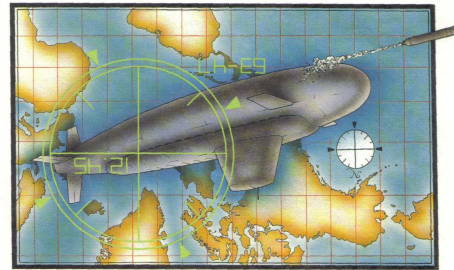


**The Earth: Land and Water**

	Total Area		Area of Oceans and Seas	
	km <sup>2</sup>	sq. mi.	km <sup>2</sup>	sq. mi.
Earth	510,100,000	197,000,000	29.3	360,700,000
N. Hemisphere	255,050,000	98,500,000	41.6	149,004,350
S. Hemisphere	255,050,000	98,500,000	17.0	211,695,650

**Oceans, Seas, and Gulfs**

Name	Area		Greatest Depth	
	km <sup>2</sup>	sq. mi.	m	ft
Pacific Ocean	165,200,000	63,800,000	11,022	36,161
Atlantic Ocean	82,400,000	31,800,000	9,220	30,249
Indian Ocean	74,900,000	28,900,000	7,450	24,442
Arctic Ocean	14,000,000	5,400,000	5,450	17,881
Arabian Sea	3,863,000	1,492,000	5,800	19,029
South China Sea	3,447,000	1,331,000	5,560	18,241
Caribbean Sea	2,754,000	1,063,000	7,680	25,197
Mediterranean Sea	2,505,000	967,000	5,020	16,470
Bering Sea	2,270,000	876,000	4,191	13,750
Bengal Bay of	2,172,000	839,000	5,258	17,251
Okhotsk, Sea of	1,580,000	610,000	3,372	11,063
Norwegian Sea	1,547,000	597,000	4,020	13,189
Mexico, Gulf of	1,544,000	596,000	4,380	14,370
Hudson Bay	1,230,000	475,000	250	850
Greenland Sea	1,205,000	465,000	4,846	15,899



WESTERN HEMISPHERE

SUBMARINE  
NAVIGATION  
CHART



**USS BLACK HAWK/COARSEGOLD CLASS**

**TOTAL BUILT:** 1  
**LAUNCHED:** 1997  
**COMMISSIONED:** 1999

**DISPLACEMENT:** 4,000 TONS  
**DIMENSIONS:** 150 x 25 x 25 FT.

**ENGINE:** 1 HYPER DYNE PRESSURIZED WATER COOLED SSG REACTOR

**SPEED, KNOTS:** 40+ SUBMERGED

**MISSILES:** 8 "HARPOON" ACTIVE RADAR HOMING TO 150 NM AT 0.9 MACH, WARHEAD 500 LB.

**TORPEDOES:** 4-21" TUBES MIDSHIPS, STING RAY B; ACTIVE/PASSIVE SONAR HOMING RANGE (25 NM) AT 50 KNOTS; WARHEAD 387 LB.; DEPTH TO 2,300'; TOTAL OF 28 WEAPONS CAN BE TUBE-LAUNCHED, FOR EXAMPLE-8 TOMAHAWK, 4 HARPOON, 14 TORPEDOES.

**MINES:** CAN LAY MINES

**COUNTERMEASURES:** DECOYS; EMERSON ELECTRIC MK 2; TORPEDO DECOY ESM; BRD-7; DIRECTION FINDING; WELP-12; RADAR WARNING; WLR-9A; INTERCEPT.

**FIRE CONTROL:** UNK-7 COMPUTER; MK 117 MOD 10 TORPEDO FIRE CONTROL SYSTEM; FITTED WITH WSC-3 SATELLITE COMMUNICATIONS TRANSCIVER.

**RADARS:** SURFACE SEARCH/NAVIGATION/FIRE CONTROL SPERRY BPS 15A; IJ BAND.

**SONARS:** IBM BOS 50; PASSIVE/ACTIVE SEARCH AND ATTACK; LOW FREQUENCY; AMETEC BOS 15; ACTIVE CLOSE-RANGE INCLUDING ICE DETECTION; HIGH FREQUENCY.



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