A calculator game of strategy. Will you survive long enough to torpedo the destroyer or will you be found by the depth charges first?

he game is set in the Pacific Ocean. An enemy destroyer has infringed the international boundaries, on a hostile mission. The enemy have, in addition, stolen an RAF Nimrod submarine hunter. Co-ordinated by the ship, this proves a formidable weapon; however, if you eliminate the destroyer, you also put this aircraft to rout.

Setting The Scene

You command the Royal Naval submarine, HMS Oceannought. Belonging to a new and revolutionary class of submarines, HMS Oceannought is capable of firing both, torpedos, and Polaris ballistic missiles, although on account of the modifications necessary to use both, only a single weapon may be fired at one shot. The submarine is armed with an effectively limitless supply of both torpedos and missiles! In command of HMS Oceannought, your orders are clear; annihilate the hostile destroyer before it annihilates you. The enemy is armed with ship-to-ship rockets, which he fires in salvos at intervals, although being under water, most of these cause little or no damage, being poorly aimed. Your underwater "Camouflage" also hides you from the aircraft for most of the time. However, during the course of the engagement, the hostile vessel moves inexorably on, towards you, in order to get a better fix on your position (the attacks become more frequent as the game progresses) and also to drop depth charges. Although a missile dropped immediately above the submarine at the surface of the ocean is distant enough from the submarine not to destroy it, it cannot destroy the enemy either, as he anticipates this strategy and keeps a safe distance, also keeping out of visual contact, but remaining still sufficiently close to strike with depth char-

The game begins as you pick up a faint blip on your radar, indicating the enemy's presence in the semi-circle of sea in front of your vessel, but not revealing his location or bearing relative to yourself. Once in range the intruder follows you where ever you move narrowing the distance separating you. Up until now you have been floating near the surface, scanning with your periscope; you order the periscope down, and dive! You commence the assault immediately, starting with perhaps random shots aimed within the semi-circle of your radar sweep, but bearing in mind that the intruder is continually moving towards you, and is thus unlikely to be located at the outer fringe of radar field after

several shots have been exchanged.

Escape is impossible, since surface vessels can move faster than submerged ones You must fight to the death!

User Instructions

1. To start the game, first ensure the Master Library Module is in position. Next, ensure the calculator is connected to a print cradle of the PC-100' series, and check that the partition is set to 559.49 (ie press - 5 2nd Op 1 7). Now, enter the program and data memories, either directly, or from each side of two magnetic cards.



Press A. (First user-defined key)
After a short while, the following is printed:-

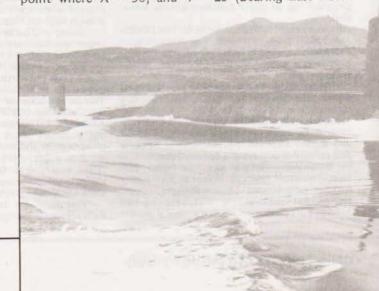
DESTROYER ON RADAR
DOWN PERISCOPE
DIVING STATIONS

DIVE! DIVE! DIVE! DIVE! (Note: before pressing A, a new random number seed between 0 and 199017 (inc) may be entered into register 9)

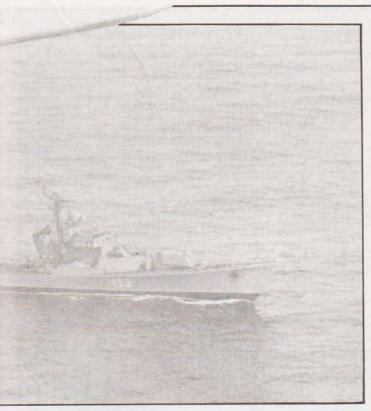
The calculator has now placed the destroyer randomly within the semi-circle shown above.

2. Commence attack: If it is desired to shoot a torpedo, enter the bearing at which it is to be directed (as above) in degrees (after checking calculator is in degree mode) and press C. If it is desired to fire a ballistic missile, enter the rectangular co-ordinates of the target point, in the following format:— XXX.YYY where both XXX and YYY are right adjusted integers, in the range 0 – 100 for YYY, and –100 – +100 for XXX and press B. Thus a torpedo shot at 45° travels in a North Easterly direction, but one shot at 135° goes North West.

A Missile directed at a position of 50.025 lands at the point where X = 50, and Y = 25 (Bearing East North



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East;) whereas a missile directed at -50.025, lands at the point where X = -50, and Y = +25 (Bearing West North West).

The torpedos are triggered magnetically by sensing a metallic ships hull. Therefore they will score a direct hit on anything within 2 units of their bearing line. Missiles, though, are triggered by the impact as they strike the water's surface. Therefore, they explode anyway (unlike torpedos which, if out of range simply pass by). The force of the explosion scores a direct to anything within 2 units of the impact point, but is sufficient to additionally score a minor hit on anything within 8 units of the impact point. The enemy can sustain four such minor hits and still continue the attack. The fifth minor hit however is fatal and destroys the enemy. The resulting explosion etc, as the intruder sinks, betrays its final position to your submarine's radar, and the enemy position is printed after the statement "Direct Hit!" or "Fatal Minor Hit!".

3. Optional, but not recommended — Cheat button. Pressing E causes the enemy position to be printed.

Scaling The Game

The following Constants and Variables may be altered to suit inidividual ability.



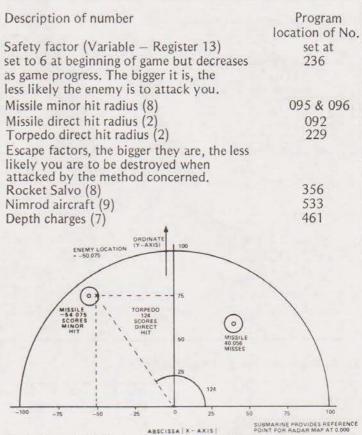


Fig.1. The radar field grid showing destroyer location and attempted strikes.

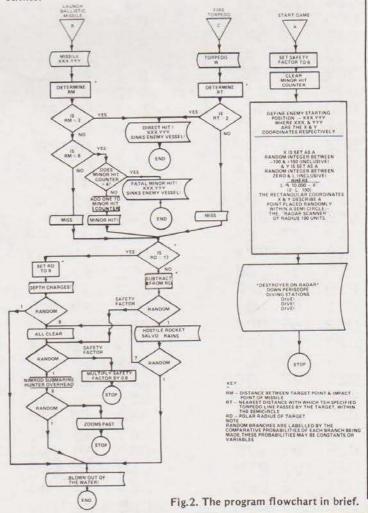


Fig.3. The data memories required. 5116173637. 3532451735. 32310035. 1316133551. 1624422431. 2200363713. 3724323136. 0. 4632323036. 0. 23243773. 37323533. 1716320000. 0. 2430353216. 36411430.	00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15	1335243117. 2341313717. 3500324217. 3523171316. 30243636. 3624312636. 17311730. 4500421736. 3617270073. 2332363724. 2717003532. 1526173700. 3613274232. 3723170043. 1337173573. 4040401427. 3243310032.		16 17 18 19 20 21 22 23 24 25 27 28 29 30 31 32	4137003221. 1617333723. 15231335. 2217360073. 3615323317. 1527171335. 2435171537. 0. 16324331. 2427170000. 1624421773. 0. 0. 0. 3024313235. 1337132700.	33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49
Fig.4. The program listing for Mariting 000 76 LBL 001 16 A' 002 42 STD 003 07 07 004 73 RC* 005 07 07 006 69 DP 007 01 01 008 76 LBL 009 17 B' 010 69 DP 011 27 27 012 73 RC* 013 07 07 014 69 DP 015 02 02 016 69 DP 017 27 27 018 73 RC* 019 07 07 020 69 DP 021 03 03 022 69 DP 021 03 03 022 69 DP 023 27 27 024 73 RC* 025 07 07 026 69 DP 027 04 04 028 69 DP 029 05 05 030 92 RTN 031 76 LBL 032 10 E'	033 034 035 036 037 038 040 043 044 044 045 047 048 051 053 054 059 060 063 064 065	36 PGM 15 15 71 SBR 88 DMS 92 RTN 76 LB 12 X:T 43 RCL 69 OP 00 OP 02 AZ 42 AZ 69 OP 03 ADV 69 OP 043 RCL 69 OP 05 ADV 69 OP 05 FIX 03 AZ 47 AZ 48 AZ 49 OP 05 SB FIX 42 STO 44 AZ 45 AZ 46 AZ 47 AZ 48	066 067 068 067 069 071 073 074 075 077 078 078 077 078 078 078 078 078 078	03 2 1 N	101 102 103 104 105 107 108 109 109 100 100 100 100 100 100 100 100	60 DEG 69 OP 00 00 43 RCL 20 69 OP 02 69 OP 05 61 GTO 50 IXI 76 LBL 39 OP 01 43 RCL 39 OP 01 43 RCL 39 OP 02 RCL 10 69 OP 03 69 OP 05 LBL 10 69 OP 05 LBL 30 TAN 02 OF 05 OF 05 OF 06 OP 07 OF 08 OP 08 OP 09 OP 00 OP 0

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Fig. 5. Sample games of Maritime Strike showing key strokes. See text for explanation.	A	C	
DESTROYER ON RADAR	*DESTROYER ON RADAR*	TORPEDO 90.	
	DOWN PERISCOPE	MISS	
DOWN PERISCOPE	DIVING STATIONS	TORPEDO	
DIVING STATIONS	DIVE	MISS	
DIVE 0 DIVE 0 DIVE 0	DIVE ?	TORPEDO 45.	
C		MISS	
TORPEDO 90. MISS	TORPEDO 90. MISS	NIMROD SUBMARINE HUNTER OVERHEAD	
	C	ZODMS PAST	
HOSTILE ROCKET SALVO RAINS DOWN	TORPEDO 45.	B MISSILE	
ALL CLEAR	c	30.045 MINOR HIT!	
TORPEDO 135. MISS	TORPEDO 135. MISS	NIMROD SUBMARINE HUNTER OVERHEAD	
TORPEDO 45.	HOSTILE ROCKET SALVO RAINS DOWN	ZOOMS PAST	
DEPTH CHARGES 0	ALL CLEAR	MISSILE . 25.040	
		MINOR HITO	
ALL CLEAR	TORPEDO 67.5	B	
NIMROD SUBMARINE HUNTER OVERHEAD	DIRECT HIT! 26.066 SINKS ENEMY VESSEL!	MISSILE 20.035 MINOR HIT!	
ZOOMS PAST	Ā	B	
MISSILE 0.012	*DESTROYER ON RADAR*	MISSILE . 15.030	
MISS	DOWN PERISCOPE	MINOR HIT®	
DEPTH CHARGES ?	DIVING STATIONS	MISSILE 10.025	
BLOWN OUT OF THE WATER?	DIVE? DIVE? DIVE?	FATAL MINOR HIT! 13.019 SINKS ENEMY VESSEL!	