Reploand Commands for Sailing

Execute displayed command	Display next higher numbered command	Display next lower numbered command	COMMAND
S	F	D	APPLE II SHIP 1 (Violet)
194	->	^	APPLE II & II+ SHIP 1 SHIP 2 Violet) (Green)
S	H	D	APPL SHIP 1 (Violet)
L	,	,	APPLE IIC IIP 1 SHIP 2 olet) (Green)
S	F	D	ATAR SHIP 1 S (Dark) (I
**	+	t	TARI 1 SHIP 2 (Light)

Boarding Phase Commands

Enemy on own deck	Other snipers	SNIPER AIM AND FIRE AT:	Hack	Thrust	Counter-thrust	Move left	Move right	SWORDFIGHTER MOVEMENTS:	COMMAND
ω 1	3 1		S	2	1	D	H		APPLE SHIP 1 (Violet)
1 -	. 0		1		0	^	->		APPLE II & II+ SHIP 1 SHIP 2 (Violet) (Green)
ω 1	2 1		₃	2	1	D	F		APP SHIP 1 (Violet)
11	1 0		1)	1	0	**			APPLE IIe SHIP 1 SHIP 2 (Violet) (Green)
ω r	2 1		ယ	2	1	D	п		ATARI SHIP 1 SH (Dark) (L
0	0 00	DIN.	0	9	00	†	+		ATARI SHIP 1 SHIP 2 (Dark) (Light)

SPECIAL NOTES: • BROADSIDES" is compatible with the Mockingboard" in slot #4.

 Certain hardware items (such as a Z-80 card) placed in slot #4 will prevent the BROADSIDES game from functioning properly. If your disk will not run and you have a card in slot #4, remove the card and the game will load correctly.

SIDES.

SAMES FROM ST.

LIMITED WARRANTY

Strategic Simulations, Inc. ("SSI") warrants that the diskette on which the enclosed program is recorded will be free from defects in materials and workmanship for a period of 30 days from the date of purchase. If within 30 days of purchase the diskette proves defective in any way, you may return it to Strategic Simulations, Inc., 883 Stierlin Road, Building A-200. Mountain View, CA 94043-1983 and SSI will replace it free of charge. In addition, if the diskette proves defective at any time after the first 30 days, return the diskette to SSI and SSI will replace it for a charge of \$10.00. Please allow about four weeks for delivery.

RESPECT TO THE SOFTWARE PROGRAM RECORDED ON THE DISKETTE OR THE GAME DESCRIBED IN THIS RULE BOOK, THEIR
QUALITY, PERFORMANCE, MERCHANTABILITY OR FITNESS FOR
ANY PARTICULAR PURPOSE. THE PROGRAM AND GAME ARE SOLD
"AS IS." THE ENTIRE RISK AS TO THEIR QUALITY AND PERFORMANCE IS WITH THE BUYER. IN NO EVENT WILL SSI BE LIABLE FOR
DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
RESULTING FROM ANY DEFECT IN THE PROGRAM OR GAME EVEN
IF SSI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
(SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF
IMPLIED WARRANTIES OR LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION
MAY NOT APPLY TO YOU.)

The enclosed software program and this Rule Book are copyrighted. All rights are reserved. This Rule Book may not be copied, photographed, reproduced, or translated or reduced to any electrical medium or machine-readable form. In whole or in part, without prior written consent from SSI. The program accompanying this Rule Book may be copied, by the original purchaser only, as necessary for use on the computer for which it was purchased.

© 1983 by Wayne Garris. All Rights Reserved.

SPECIAL NOTES:

- BROADSIDES" is compatible with the Mockingboard" in slot #4.
- Certain hardware items (such as a Z-80 card) placed in slot #4 will prevent
 the BROADSIDES game from functioning properly. If your disk will not run
 and you have a card in slot #4, remove the card and the game will load correctly.

Table of Contents

27	O CLOSSABY OF TERMS	0
24	8.5 Ships Stored on the Game Disk	
23	8.4 Spanish Ships	
22	8.3 American Ships	
21	8.2 French Ships	
19	8.1 British Ships	
19	0 STATISTICS ON SHIPS OF THE NAPOLEONIC ERA	8.0
18	etermination	
18	7.5 Bonus Points for the Victor	
18	7.4 Points for Destroying Guns	
18	W	
17	7.2 Points for Destroying Hull	
17	7.1 Points for Destroying Sails and Masts	
17	0 ENDING THE GAME AND VICTORY CONDITIONS	7.0
17		
15	-	
14	1	
14	0 BOARDING	6.0
12	5.10 Commands (Arcade and Tactical)	
12	5.9 Rakes	
12	5.8 Point Blank Fire	
11	5.7 Line of Sight	
-	6	
=	5.5 Port and Starboard	
=	5.4 Speed	
11	5.3 Turning	
10	5.2 Disengagement	
10	5.1 Time	
10	0 SAILING AND CANNON FIRE	5.0
9	BOARDING SCREEN	4.0
7		3.0
6	2.5 Variables Page 3	
51	2.4 Variables Page 2	
4	2.3 Variables Page 1	
4	2.2 Variables Pages (Ship Characteristics)	
3	2.1 The Options Page	
3	0 THE OPTIONS PAGE AND VARIABLES PAGES	2.0
3	1.9 Changing Modes	
3		
3	tion of	
12	to the Computer While Boardi	
-	1.5 Talking to the Computer While Sailing	
-	1.4 Arcade vs. Tactical Levels of Play	
-	n and Sound Off	
-	1.2 Stopping the Game Temporarily and Restarting the Game	
_	1.1 Loading the Program	
-	0 INTRODUCTION	1.0
AGE	44	
	•	



ships of the Napoleonic combat betweeen sailing era (late 18th and early simulation of ship-to-ship Broadsides is a tactical

engage in close combat using swords by a human opponent. To be victorious and muskets. tion for your cannons, or you may ship commanded by the computer or helm of the sailing ship of your choice, attempt to board the other ship and you may use various types of ammuniyou will match yourself against another 19th century). Taking the

1.1 LOADING THE PROGRAM

tridges on the Atari). turn your computer on (remove all car-Put the disk in your disk drive and

1.2 STOPPING THE GAME AND RESTARTING THE GAME TEMPORARILY

the 'R' key) to restart the game. Hit the escape key again to resume play porarily stop the game while playing. Hit ctrl-R (hold the control key and hit Hit the escape key (ESC) to tem-

1.3 SOUND ON AND SOUND OFF

the sound on or off by typing ctrl-S. During a game players may turn

1.4 ARCADE VS. TACTICAL LEVELS OF PLAY

ful game with more options should make. Those preferring a more thoughtexciting action, with fewer decisions to can be played using the Broadsides disk The 'arcade' type of game offers fast and Two very different types of games

> a new game. The choice of arcade vs. computer receiving a new ship (this do double damage against the enemy ammunition, and your guns will always arcade game, only solid shot is used for page after the game is loaded. In the tactical is made on the first selection or you can accept your victory and start option not available in the Atari version), choose to continue the game with the the computer and you win, you can are playing the 'arcade' game against choose the 'tactical' type of game. If you

1.5 TALKING TO THE COMPUTER WHILE

game.) When a command is accepted and (16) TURN TO STRB. (Fewer comrange), (15) FIRE XXXX YARDS (high range), speed, (3) Steady speed, (4) Slower speed, command line. the message 'AYE, AYE, SIR' on the the computer will respond by flashing mands are available for the arcade (low range), (14) FIRE XXXX YARDS (mid SAIL, (8) SOLID SHOT, (9) CHAIN SHOT, Commands are displayed in the followship on the right third of the screen. appears directly below the name of the (12) AIM AT HULL, (13) FIRE XXXX YARDS (10) GRAPE SHOT, (11) AIM AT SAILS, (5) BACK SAIL, (6) BATTLE SAIL, (7) FULL The command line for each ship

USING THE PADDLES (Apple ersion only)

right third of the screen. On the left ship, which is displayed on the bottom two-thirds of the screen, the ships are Paddle number 2 refers to the green ship, on the top right third of the screen. Paddle number 1 refers to the violet

> command (TURN TO STRB) is displayed and then pressing the paddle button. distinguished by their colors, green and first displaying it on the command line to the right. A command is executed by when the paddle is turned all the way the way to the left, and the last displayed when the paddle is turned all The first command (TURN TO PORT) is the paddle to the right or to the left. played on the command line by turning violet. Different commands are dis-

continue to ask you to set the paddles too much in error, the program will not calibrated exactly. If the paddles are paddles to allow for paddles that are The program will have you 'set' the

USING THE JOYPORT (Apple version only)

Joystick. Push the joystick to the left to This game can be played using the

> the displayed command. command. Press the button to execute display a lower numbered command the right to display a higher numbered (see section 1.4). Push the joystick to USING THE JOYSTICK

(Atari version only)

then pressing the joystick button. displaying it on the command line and the left. A command is executed by firs turning the joystick to the right or to are displayed on the command line by and ship 2 is light. Different commands shades, dark and light. Ship 1 is dark are distinguished by their respective left two-thirds of the screen, the ships screen. Joystick number 2 refers to the bottom right third of the screen. On the light ship, which is displayed on the dark ship, on the top right third of the Joystick number 1 refers to the

USING THE KEYBOARD

Sirius Joyport together with an Atari

The keys below are used to select commands with the keyboard option:	d to selec	t comman	ds with t	he keyboa	ard option	n:
	APPLE	APPLE II & II+	APPLE IIe	E IIe		ATARI SHIP?
COMMAND	(Violet)	(Green)	(Violet)	(Green)	(Dark)	(Light)
Display next lower numbered command	D	^-	D		D	†
Display next higher numbered command	711	\ \ '	F		F	+
Execute displayed	S	*	S	L	S	1

1.6 TALKING TO THE COMPUTER WHILE BOARDING

command

give commands during the boarding Only the keyboard can be used to

phase. A summary of the commands

Enemy on own deck	Enemy on other deck	Other snipers	SNIPER AIM AND FIRE AT:	Hack	Thrust	Counter-thrust	Move left	Move right	SWORDFIGHTER MOVEMENTS:	COMMAND
3	2	1		3	2	1	D	F		APPLE SHIP 1 (Violet)
1	**	0		1	**	0	^	-		APPLE II & II+ SHIP 1 SHIP 2 (Violet) (Green)
3	2	1		ω	2	_	D	H		APP SHIP 1 (Violet)
11	1	0		11	1	0	**			APPLE He SHIP 1 SHIP 2 (Violet) (Green)
ω	2	1		ယ	2	1	D	H		ATAR SHIP 1 SI (Dark) (I
0	9	8		0	9	8	t	ŧ		SHIP 2 (Light)

1.7 DESCRIPTION OF ACTION

Game time is displayed at the bottom of the screen. Since this is a simulation, you will notice that time moves faster than reality. The game starts at 6:00:00 AM. The game automatically ends in a draw at 6 PM if neither player has achieved a victory by that time. Use the clock to estimate when your ship will turn or load its cannons after you have given the command. (A certain amount of time is needed to carry out a load command or a turn command. This time delay can be adjusted on the variables pages.)

engage and return to the sailing screen. after the last one is cut, the ships will disexplanation.) You will then see the grapmust be positioned behind the grating on from boarding, and resume on the sailing switch to the boarding screen. To disengage screen, and if the ships collide, play will and both players can issue commands at start playing. The play is not turn-oriented, Atari) is hit to start the game, be ready to soon as the space bar (START key on the ples between the ships being cut. Shortly his ship. (See boarding screen picture and screen, your sword-fighting character the same time. Play starts on the sailing The play of the game is real-time. As

1.8 SETTING THE PACE

each game. Enter a value between 0 and 9 players agree). during a game as a valid tactic (if both wish to use the ability to change the pace again to restart the game. Players may setting). On the Atari, hit the ESCAPE key level (0-9, or space bar to keep the current game by first typing ctrl-Q (ESCAPE on the may change the pace setting during a become familiar with the game. Players progress to taster paced games as you think about your plan of action) and games (this will allow you more time to are advised to begin with slow paced representing the slowest paces. Players the fastest paces and high numbers (7, 8, 9) with low numbers (0, 1, 2) representing pace of the game just prior to the start of game. The computer will ask you to set the Atari) and then entering the new pace Players may adjust the speed of the

1.9 CHANGING MODES

Players may switch back and forth between their paddles, joyport, and keyboard while a game is in progress. The ctrl-K key will activate the keyboard, ctrl-P will activate the paddles (Apple only), shift-ctrl-P will activate the joyport (Apple only), and ctrl-J will activate the joystick (Alari only).

2.0 The Options Page and Variables Page

to select the general type of game you would like to play. The three variables pages are optional and allow you to control the characteristics of the ships you use in the game (these three pages are avail-

bles are ship crew size and loading time for guns.

2.1 THE OPTIONS PAGE

There are six groups of options: (1) game controller, (2) number of players, (3) arcade or tactical type of game, (4) regular game or boarding screen only, (5) difficulty of game and player options (ships to be used), and

option). Examples of controllable varia-

able if you select the change variables

(6) selection of the variables pages. As the screen is displayed, a cursor will appear next to each option group indicating which option is currently selected. Options can be chosen in any order. You will remain on this page until you hit the space bar. If you select NO CHANGE for option 6, the game will start when you hit the space bar.*Otherwise, if you select CHANGE VARIABLES, you will go to the first variables page (see below) when you hit the space bar.*

 Hitting the '1' number key selects game controller PADDLES, JOYPORT or KEYBOARD. The paddles are recommended for the Apple version, the joystick for the Atari version.

The number '2' key selects SOLITAIRE (you play the computer) or TWO PLAY ER (you play another person).

 Hitting the number '3' key selects the ARCADE or TACTICAL types of games. (See section 1.3 above for an explanation of arcade and tactical types of games.)

 The '4' number key selects a regular sailing game, or a game with the boarding screen only.

5. Hitting the number '5' key selects the difficulty of the game. Also available are player options A through L if previously saved (see section 2.5). The level of play is merely a reflection of the abilities of the two ships (i.e. in Level 1 play the computer's ship is inferior to that of the player, whereas in Level 3 the computer's ship is superior to that of the player).

6. The '6' number key gives you the option to CHANGE VARIABLES. If you select it, you will see the first variables page (see below) after you hit the space bar.* Otherwise, the game will start after you hit the space bar.* If you want to see the initial settings for the current game's ships, select the change variables option.

After you have selected all of your options, hitting the space bar *starts the game, or goes to the first variables page, depending on whether you selected CHANGE VARIABLES in option 6.

2.2 VARIABLES PAGES (SHIP CHARACTERISTICS)

The variables pages enable you to change the settings for the ship variables from the standard settings for Level 1, Level 2, Level 3, or Player Options A through L. The original settings displayed on the variables pages are set by the level of play chosen on the options page. If level 1 was chosen, the ship characteristics for level 1 play will display initially on the variables pages. If a player option was chosen, the variables values will initially be set to the values for that player option (players will have the ability to save onto the

Ose the escape key (option key on the Atari) to go from one variables page to another (there are 3 pages altogether). When the variables pages are completed, hit the space bar * to start the game.

disk new player options A through L).

2.3 VARIABLES PAGE I

Variables page 1 is used to name your ship and to select the numbers and types of cannons on that ship. You will also select the nationality of the ship (this only affects the music played at the end). If you want, the computer can calculate a typical ship according to the cannon selections that you have made.

1. To name ship 1, hit the '1' key, type the name of the ship, and hit return

Hitting the '2' number key moves
you between the four different gun
choices for ship 1. The cursor shows
which choice you are at now. After
you have selected the number and
type of guns for your first choice, hit
the '2' key to go to the second choice.
Up to four types of guns are allowed.

s. Hitting the '3' key allows you to change the number of guns for the line the cursor is on, for ship 1. Hitting '3' adds 1 to the number each time you hit the key. The number goes up to 22 and then back to 0 (you see a blank on the screen, not 0).

4. Hit the '4' key to choose the type of gun you would like for that choice, for ship 1. The poundage for each gun will be shown, and a 'C' if the gun is a carronade. If there is no 'C',

* START key on the Atari

9 lb, 12 lb, 18 lb, 24 lb, 32 lb, 36 lb, the guns is: 12 lb carronade, 18 lb maximum range. range of the guns is at ranges under of that type of gun. You will note that and 42 lb cannons. After each gun carronade, 42 lb carronade, 6 lb, 8 lb, carronade, 24 lb carronade, 32 lb very poor beyond one half of their range. The accuracy of the guns is one third of the guns' maximum than cannons. The most effective carronades have a much shorter range type is displayed the maximum range the gun is a cannon. The order of

You may hit the '5' key to calculate a calculating a typical ship will change choices for ship 1. Warning after you have made all the cannon the next two variables pages to those all the variable settings for ship 1 on typical ship for those cannon choices 'typical' settings!

6-0. The keys 6, 7, 8, 9, 0 have the 2, 3, 4, 5 have on ship 1. same effects on ship 2 as the keys 1,

2.4 VARIABLES PAGE 2

repeatedly will increase the variable to value for that variable. Hitting that key time, (3) and (4) turning time, (5) and again at its minimum value. its maximum value, and then begin the keys 1 through 0 will increase the (9) and (0) hull points. Hitting one of (6) speed, (7) and (8) shot damage, and the variables: (1) and (2) firing (loading) Variables page 2 is used to change

- 1. Hit 'I' to change the firing (loading) time for ship 1. Hitting the '1' key maximum for firing time), it will start adds 10 seconds to the firing time. over at 10 seconds (the minimum for When it reaches 8 minutes (the hring time).
- Hit '2' to change the firing (loading) ship to reload the cannons after they time for ship 2. Firing time represents could reload their guns in one and Historically, the very best crews from 10 seconds to 8 minutes. reloaded. Firing time can be adjusted again after the cannons have been have been fired. You can only fire how long it takes the crew of your

among the crew. actual loading time will increase 10 four minutes or more. During the seconds for every 30 casualties play of the game, you will notice that one-half minutes; poor crews took

- Hit '3' to change the turning time for
- Hit '4' to change the turning time for change of 30 degrees (12 turns to a ship 2. Turning time is the delay circle). Turning time can be varied command is given. One turn is a before a turn is executed after the from 10 seconds to 8 minutes.
- Hit '5' to change the starting speed for ship 1.
- ship's speed can be varied from 1.2 Hit '6' to change the starting speed 30 degrees from directly behind it. ship. It is the speed of the ship with It is not the maximum speed of the the Atari). This speed will be the knots to 4.8 knots (.5 to 4.4 knots on cates the ship's speed in relation to for ship 2. The starting speed indiis somewhat faster when the wind is the wind directly behind it. The ship speed of the ship as the game starts in all directions to the wind. The starting speed, the faster that ship is that of other ships. The higher the
- Hit the '7' key to change the shot damage inflicted by ship 1 on ship 2
- Hit the '8' key to change the amount of ship 2. Shot damage is a measure of damage inflicted by the cannons number of hits is increased to 24 2.00 × standard, then if a broadside example shot damage is set to the range they are firing at. If for inflicted is an accurate reflection of 1.00 × standard, the number of hits guns. When shot damage is set to of the number of hits inflicted by the .5 times (50 percent of) to 3 times Shot damage can be varied from the number of cannons firing and (300 percent of) standard. would normally inflict 12 hits, the
- Hit the '9' key to change the hull points for ship 1.
- 9 Hit '0' to change the hull points for how sturdy the hull is. Your ship will ship 2. Hull points are a measure of

points to 200 points.

Player Options A through L. variables on the three variables pages as through ctrl-L) to save the values of the centage, (3) and (4) crew size, (5) and change (1) and (2) sniper fire hit per-(6) boarding casualties, and (ctrl-A The third variables page is used to

- 1. Hit the 'I' key to change the sniper
- Hit the '2' key to change the sniper ships, an accurate percentage is 8% the sniper fire to 15% or 30% to 8% of hits effective, 15%, 30% and or decrease the effect that snipers fire hit percentage for ship 2. Sniper represent more snipers. For smaller 60%. To represent larger ships, set Sniper fire percentages can be set to have on the outcome of the game. This variable can be used to increase each sniper hits his intended target fire is the percentage chance that
- 3. Hit '3' to add 50 men to the size of point the crew size starts over again possible crew size is 1279. After that the crew for ship 1. The maximum
- 4. Hit '4' to add 50 men to the size of of your crew is very important during the maximum is 1279 men. The size like. The minimum size is 120 men; until you reach the crew size you'd the crew for ship 2. Keep hitting '4'

Hit the '5' number key to change the boarding casualties inflicted by ship 1 the boarding phase.

2.5 VARIABLES PAGE 3

sink after your hull points reach zero Hull points can be varied from 30

Hit the '6' key to increase the board-

ing casualties inflicted by the crew of

values. On the boarding screen,

Boarding casualty ratio reflects a ship 2 on the crew of ship 1.

modification of the standard casualty

when a man is killed by a sword

- fire hit percentage for ship 1.

up to 4 times as many casualties as multiplied by 1, 2, 3 or 4 to produce boarding casualties ratio for ship 1 is

set to 3. Boarding casualties can be

ship 2 crew members when the

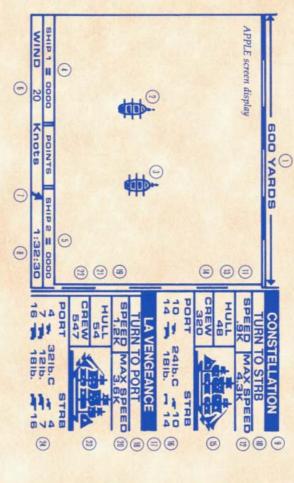
is set to 1, then ship 1 will kill 12 the boarding casualties ratio for ship 1 kills 4 ship 2 crew members when killed by the specified percentage. than 1 will raise the number of men method used to kill. A ratio greater killed depending partly on the represents a certain number of men fighter or by a sniper, that death

For example, if the crew of ship 1

one more time sets it back to 1. ing casualty ratio to 4, hitting the key standard. After increasing the board-

- CTRL-A through L: Hold down the settings of the variables as Player through 'L' keys to save the current control (CTRL) key and hit the 'A' saved by specifying Player Option A recall all the variable values you have through ctrl-L will erase any previ-Options A through L Hitting ctrl-A When playing another game later, ously saved Player Option variables
- through L on the options page.





the items you will find on the sailing screen The following is a description of all of

- 1. Current scaled distance between 600 and 2400 are available. (The top scales in the game: 600, 1200, and arrows. There are three different they move farther apart. to keep both ships on the screen as the scale changes.) The scale changes views of the ships change size when 2400 yards. On the Atari only the
- Top view picture of ship 1 (Apple: violet, Atari: dark) at the 600 yard various ranges determined randomly start on the right or left of ship 2 at scale. Ship I (violet or dark) may
- Top view picture of ship 2 (Apple: green, Atari: light) at the 600 yard
- 4. Current point value earned by the captain of ship 1. Points are earned for damage to ship 2.
- 5. Total points earned by the captain of ship 2 for damage to ship 1.
- 6 Current speed of the wind in knots 25 knots. will always start with the wind at 10 knots to 30 knots. The game The wind speed will vary from
- Current wind direction. The wind that the ships can move in. The can blow in the same 12 directions changes the speaker will sound. up). When the wind direction 'up' the screen (the arrow will point wind will tend most often to blow

ATARI screen display

8. Current time in the format than real time. time will move several times taster declared a draw. Note that game and can continue until 6 P.M. MM is minutes, and SS is seconds HH:MM:SS, where HH is hours, by this time, the game will be (6:00:00). If neither side has won The game starts at 6 A.M. (6:00:00)

@ @ E

1.8 K NX SPEED .

25 1

14#

1 25

(=)

TURN TO PORT

80

68 # C-

151

14#

4 15

14 1 24#

- 10. Name of ship 1 (violet or dark)
- Command display line for ship 1 AYE, AYE, SIR to be displayed. In other the command on to the crew. stood your order and has passed words, your Lieutenant has undercommand will cause the message here one at a time. Executing a Each command can be displayed

81 = 0000

WIND

30 KNOTS

6:01:40 - 0000

82

POINTS

-0600-

0

15 4

14#

(2)

14 %

* MX

(3)

25 1

14#

2 % 68 # C.F

TURN TO PORT

@@

(3) (3)

0

0

0

(3)

- 11. Current speed in knots for ship 1. 12 damage, wind speed, wind direction Current maximum speed in knots to increase or decrease speed or go direction, and commands you give rently moving at. It is affected by for ship 1. It is affected by sail to battle or full sail. sail damage, wind speed, wind This is the speed your ship is cur-
- unable to move. to zero and your ship will be When most of your sails are gone, and whether battle sail or full sail is decrease as your sails are shot out in effect. The maximum speed will your maximum speed will decrease
- Current hull points for ship 1. This your ship will sink. away. Soon after it reaches zero, will decrease as your hull is shot
- 14. Current crew size (number of men) crew lost increases 10 seconds for every 30 time (loading time) for the cannons casualties in your crew occur. Firing for ship 1. This will decrease as
- 15 Side view of ship 1. This picture tells what size of ship you are using. of hull is pictured depending on [13], hull points). A different type also shown on this picture (see also masts you have left. Hull damage is you how much sail and how many
- 16. Cannon display for ship 1. This range tighting, 600 yards or less) carronade (primarily used for short shown. 'C' indicates the gun is a shown for each side of the ship, ship 2. Number of guns left is will be hit by the broadsides from play the game some of your guns of guns currently functional. As you display shows the number and types port and starboard. The type of gun
- 17. Name of ship 2 (green or light).
- Same as 10 but pertaining to ship 2
- Same as 11 but pertaining to ship 2.

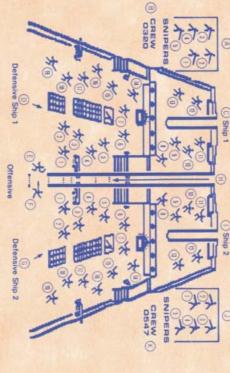
19

Same as 13 but pertaining to ship 2. Same as 12 but pertaining to ship 2.

Same as 14 but pertaining to ship 2

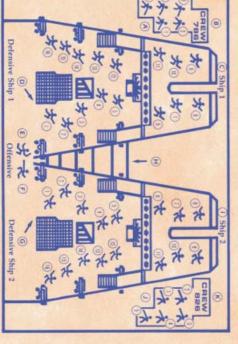
24. Same as 16 but pertaining to ship 2. Same as 15 but pertaining to ship 2.





display APPLE

screen



ATARI

screen

display

P

ship 2. Ship 2's crew will always face left

whether currently on ship 1 or boarding the picture in the numbered positions.)

Ship I's crew will always face right,

is facing. (Crew members are shown on member belongs to by the direction he

You can tell which ship each crew

Sniper box for ship 1. The figures in section 2.5, Variables Page 3). Each can be set on the variables page (see with muskets. Each sniper represents in the rigging firing at the enemy the sniper box represent snipers up 10 men. The accuracy of the snipers

> by the other snipers during boarding during sailing, or they can be killed can be killed when other crew is lost ship starts with 5 snipers. Snipers

B. Current number of crew on ship 1. lose men from swordfighting or This number changes each time you

C. Ship 1. Ship 1 is displayed on the Apple version only). There are 19 violet (the color of ship 1 in the left half of the screen. The mast is

D. Grating on ship 1. If ship 1's sword offensively. When fighting offensively one of the grappling lines will be cu of 'dropping dead' in section 6.1) tion in which a live ship 2 crew ship 2 at the lowest numbered posidead, one of ship 1's crew will board if the enemy swordinghter drops of the grating, then he is fighting ship 1's swordfighter is to the right (will be erased from the screen). If will be removed from the ship, and enemy that is currently on ship 1 left of the grating, then one of the while ship 1's swordfighter is to the fighter drops dead (see explanation In other words, if ship 2's swordthe grating, he is fighting defensively fighter is to left of the right side of

E. Swordfighting figure for ship 1. fighter by using the keyboard (see Commands are given to the sword

in the picture. (16 on the Atari) in order as shown crew boarding positions on the ship

in the picture.

G. Grating on ship 2. If ship 2's sword-

are on the offensive.

of the grating), he is fighting defensively

fighter is to the right of G (the left side

Swordfighting figure for ship 2. Note

section 6.2)

that in this position, both swordfighters

H. Grappling lines between the two ships actions (see section 6.1). When a grapin a draw if playing the Boarding Only lines are cut (erased) the game will end from the screen. If all the grappling pling line is cut, you will see it erased These can be cut by certain player grating, then he is fighting offensively It ship 2's swordhighter is to the left of the

member currently stands.

J. Sniper box for ship 2. green (the color of ship 2 in the (16 on the Atari) in order as shown crew boarding positions on the ship Apple version only). There are 19

Ship 2, Ship 2 is displayed on the

right half of the screen. The mast is

crew losses sustained during boarding

be calculated taking into account the cut.) At this time new point totals will the ships apart after all the lines were men cutting the grappling lines pushed before but moved farther apart. (The stopped, facing the same direction as return, both ships will be completely the sailing phase of the game. When you version. Otherwise, you will go back to

K. Current number of crew on ship 2. This number changes each time you lose men from swordfighting or sniper fire

at the bottom of the sailing area). The book refer to game time (see the clock All references to time in the rule

when you give a TURN or FIRE command time during the sailing portion of the you can figure out when your ship will game. By looking at the game clock clock is incremented 10 SECONDS at a

5.2 DISENGAGEMENT

to disengage several times in succession tracted from each player's victory point total (see section 7.0 for details on vicno new sails or masts will appear on speed if your sails were repaired, but any damage that has been sustained. this time the ships will attempt to repair Upon disengagement one hour of time proximately 1500-2000 yards away from (determined randomly), allowing the yards of each other. Ships may continue the ships being placed back within 1500 tory points). Next, play will resume with your ship. Repaired damage will be subhull was repaired, and an increased Hull and sail damage may be repaired each other the ships will disengage. ships additional time to repair. You will see more hull points it your will elapse on the game clock. During Whenever the two ships sail ap-

5.3 TURNING

a ship of the period to complete a turn giving a TURN command and the of 30 degrees. The time delay between the options page. represent the actual time it would take delay before a turn is executed, to accepted by the computer. There is a played neither TURN command will be see a TURNING message instead of the TURN TO PORT or TURN TO STRB you will delay before the ship turns. During this command is given there will be a time place 30 degrees at a time. After a TURN player by selecting CHANGE VARIABLES on execution of the turn can be set by the TURN command. While TURNING is disdelay if you attempt to display either lurning to port or starboard takes

5.4 SPEED

All speeds in game are expressed

5.5 PORT AND STARBOARD

(front) of the ship, then Port is on your If you are facing toward the bow

left side and Starboard is on your right

5.6 BROADSIDES

command, whatever type of \$NOT you they were last aimed. It is possible then according to your selection. The port during SHOT, AIM, and FIRE commands enemy ship. This selection applies SHOT and to AIM one broadside at the to have the port and starboard broadstarboard broadside will be aimed board side when you select AIM the broadside. If the ship is on your starselected will be loaded into the port select which broadside is closer to the sides loaded with different types of broadside would still be aimed where your port side when you select a \$H01 For example, if the enemy ship is on always result from broadsides solid shot, and double damage will command while the enemy ship is on SHOT until you give a different SHOT CHAIN SHOT while the other ship is on broadside. For example, if you select give a different command for that broadside it remains in effect until you command is given for a particular are now firing from. Once a \$HOT or AIM was on the side of your ship that you for SHOT and AIM when the enemy ship depends on the last commands given SHOT is fired and where it is aimed When you fire a broadside what type of sails and AIM one broadside at the hull. your guns will always be loaded with your port side. In the arcade game, will continue to be loaded with CHAIN your port side then your port broadside The computer will automatically

5.7 LINE OF SIGHT

1/3 effect (see exception in section 5.8) on each side of the main arc, but at only page. A ship may fire a further 15 degrees in the diagram at the top of the next full effect within a 30 degree arc as shown A ship's broadside may only fire at

5.8 POINT BLANK FIRE

as fire at 125 yards or less) causes (i.e. the range selected by the player when it is firing at point blank range double damage. A ship cannot miss Fire at point blank range (defined

> target. Also, point blank fire is automat (see section 5.7) will automatically be point blank range which can sight the able to have its full broadside sight the target with at least a third of its guns will not affect the broadside). A ship at BROADSIDE 1/3 BROADSIDE 1/3 BROADSIDE 30 tinue to slow a ship's turn rate. hull will slow a ship's turning speed 1/3 BROADSIDE 1/3 BROADSIDE 30 FASTER SPEED BROADSIDE FULL

extremely ineffective against the hull the hull, even if AIM AT SAILS has been selected. Note that chain shot is ically considered to be fire directed at

5.9 RAKES

damage. A rake occurs whenever the raking an enemy ship will cause double ular courses as shown below. two ships are moving along perpendic-A broadside which is judged to be

5.10 COMMANDS (Arcade and Tactical)

cal) that command can be used in. Not all commands are available in the what types of games (arcade and tacti-Each command below specifies

(Arcade and Tactical) TURN TO PORT

sections 5.3 and 2.4 for more informastandard delay can be set anywhere tion. Excessive damage to the rigging or between 10 seconds and 8 minutes. See seconds. For the Tactical version the 10 seconds to 8 minutes of game time. For the Arcade version the delay is 50 Ship turns to port after a delay of

> (over 50 hull points lost or 50% rigging damage). Additional damage will con-

(Arcade and Tactical)

until one of the other SPEED commands is given (STEADY SPEED or SLOWER SPEED) MAX SPEED is reached. Stays in effect Continues to increase speed until

(Arcade and Tactical) STEADY SPEED

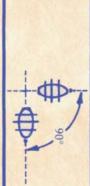
SPEED) and continues the ship at its commands (FASTER SPEED or SLOWER current speed. Cancels either of the other SPEED

(Arcade and Tactical) SLOWER SPEED

until one of the other SPEED commands is given (STEADY SPEED or FASTER SPEED) the speed is 0 knots. Stays in effect Continues to decrease speed until

(Tactical only) BACK SAIL

sail command. Backing sail was accomcommand is given. During this 30 second its present value, 30 seconds after the example, if FASTER SPEED is in effect any of the other SPEED commands; for plished by temporarily turning sails into interval, you may not give another back the wind. This command will not affect Ship reduces current speed to 1/2 of





when you give the BACK SAIL command, it will still be in effect after the BACK SAIL command has been executed.

(Tactical only) BATTLE SAIL

the FULL SAIL command is canceled and at BATTLE SAIL. This command also you are at BATTLE SAIL. The 'F' next to a delay of 2 minutes 40 seconds before cancels the FULL SAIL command. There is battle. The game starts with both ships SAIL command for more information. when BATTLE SAIL takes effect. See FULL the maximum speed display is erased Standard rigging for ships entering

(Tactical only) FULL SAIL

effects apply only while the 'F' is disfaster speed and the greater damage would suffer at BATTLE SAIL. Both the a half to two times the damage you the amount of damage will be one and you suffer sail damage while at FULL SAII MAX SPEED is doubled, allowing you to command is in effect. While at FULL SAIL speed display when the FULL SAIL placed to the right of the maximum delay of 2 minutes 40 seconds. An 'F' is your ship will switch to BATTLE SAIL If you are at FULL SAIL when this occurs FULL SAIL for the remainder of the game played. Once you have lost approximatesail faster if you so desire. Second, if there are two consequences. First, your ly a third of your sails, you cannot go to This command takes effect after a

(Tactical only) SOLID SHOT

at the beginning of the game, and automatically loaded into each broadside troying enemy guns. Solid shot is shot that can inflict hull damage (see It does standard damage against both sails and hull. **SOLIO SHOT** is the only shot can be fired both at sails and hull during the arcade game is also the most effective shot for des-CHAIN SHOT for one minor exception). It Your standard cannonball. This

(Tactical only) CHAIN SHOT

(sail damage in this game represents This shot is for destroying sails

13

to destroy sails and the term CHAIN SHOT chain shot is roughly 700 yards. against sails as SOLID SHOT does. Guns shot can only be fired at sails. CHAIN Several types of shot were actually used damage to both sails and rigging) aim at the sails. The maximum range of are destroyed less frequently when you SHOT does two times as much damage in this game represents all of them. This

(Tactical only) GRAPE SHOT

use to prepare the way. SHOT is roughly 400 yards. If you are snipers). The maximum range of GRAPE planning to board this is a good shot to ties can also cause casualties to your tive shot against the crew (crew casualkills crew. This is by far the most effec-It can only be fired at the hull and only This shot was used for killing crew

(Arcade and Tactical) AIM AT SAILS

target at the beginning of each game. effective as aiming at hull for destroying solid shot). Aiming at sails is not as aim of your guns for future firings of loading Grape Shot will not change the in the appropriate broadside (however, ignored if GRAPE SHOT is currently loaded broadside at sails. This command will be the enemy's guns. This is the default Aims either port or starboard

(Arcade and Tactical) AIM AT HULL

solid shot) aim of your guns for future firings of in the appropriate broadside (however, ignored if CHAIN SHOT is currently loaded loading Chain Shot will not change the broadside at hull. This command will be Aims either port or starboard

FIRE, RANGE XXXX YARDS (Arcade and Tactical)

automatically given. The option of range or having the correct range guessing ranges gives you three ranges the option of either guessing the correct played for this command). Players have (XXXX stands for whatever range is disstarboard broadside at the range XXXX This command fires either a port or

> other while playing the game by hitting ship in the display area. See section 3.0 rect range option and the Tactical game The Arcade game begins with the corcorrect. The other option allows you to delay is 30 seconds in game time. The represent the time it took to reload the damage. After firing there is a time amount of damage done to the enemy will next calculate and display the correct range given to you, the computer you guess the correct range or have the ESCAPE, R, and then ESCAPE again." If begins with the guessing range option. fire automatically at the correct range. each 100 yards apart, one of which is Loading time is increased due to crew range. While this message is displayed a message will be displayed instead of before the delay is over, a STILL LOADING ing CHANGE VARIABLES on the options delay can be set by the player by select guns. In the Arcade version the standard delay before you can fire again, to Sailing Screen for an explanation of You may switch from one option to the FIRE command will not be accepted. page. If you turn to the FIRE command

loading time will be increased by 10 a number of crew equal to the number losses as follows: each time a ship loses ship. First, if you are playing the Tactical are three ways you can miss the other by 30 seconds if it loses 81 crew. There side will have its loading time increased the game with 27 guns on each broadseconds. Example: A ship which starts of guns on its initial broadside its which case there will be no splash. beyond the displayed playing area, in splash where the shot hit the water broadside misses, then you will see a the line of sight of your guns. If your range of the type of shot you are using might be farther away than the maximum Second, the distance to the other ship version you can select the wrong range Sometimes the range you select is Third, the other ship might not be in

(Arcade and Tactical) TURN TO STRB

apply to TURN TO PORT. with all of the same restrictions that turns the ship 30 degrees to starboard STRB is short for starboard. This





capture the enemy ship. combat in an attempt to use of hand-to-hand

6.1 EXPLANATION OF BOARDING

of boarding screen). Shortly after all 6 the two ships together (see explanation long as at least one grappling line keeps GRAPPLING. Boarding continues as

*New feature in Apple 2.0 version

longer show on the screen, the game screen). For example, if the ship 1 game will end in a draw. One grapple grappling lines have been cut and no dead (see explanation of boarding causes the other swordfighter to drop swordfighter behind his own grating grapple will also be cut whenever a fighters is behind his own grating). One dead (while at least one of the swordswordfighting in which no one drops will be cut for every 12 rounds of playing the Boarding Only game, the with one hour of time elapsed, or it will transfer back to the sailing screen

nations of letters 'D', 'E', 'F', 'G', and 'H' section 4.0, Boarding Screen, for a by where your swordfighter is. Refer to gether. Whether or not you are fighting grappling lines holding the ships todefensively you have commanded your enemy can't escape. If you are fighting to this you are trying to tie the ships defensive. If you are engaged in offendefensively or offensively is determined men to repel boarders and cut the together with grappling lines, so the as many men on the enemy's deck as sive boarding then you are trying to get OFFENSIVE VS DEFENSIVE, Each possible to take over his ship. In addition player is either on the offensive or

DROPPING DEAD. The swordfighter dropping dead will occur whenever a total of ten crew members are killed. Each time a sniper hits, ten enemy crew are killed and a figure will drop dead. Whenever accumulated casualties due to swordfighting amount to ten, a swordfighter will drop dead.

SWORDFIGHTING ROUNDS. Swordfighting is played in rounds. A round consists of a swordfighting movement of a thrust, counter-thrust or hack. The thrust, if it kills, kills 4 men, the counter-thrust 2 men, and the hack 6 men, if boarding casualties is set to 1 times standard (see section 2.5, Variables Page 3). After 15rounds of swordfighting, each sniper is allowed to fire.

CASUALTY RATES. The counter-thrust beats the thrust and kills 2 men. The thrust beats the hack and kills 4 men. The hack beats the counter-thrust and kills 6 men. The counter-thrust kills 0 men against the counter-thrust. The thrust kills 4 men against the thrust. The hack kills 6 men against the hack. The number of men killed by these movements is altered if your sword-fighter is advancing or retreating during

the round. An advancing swordighter (ship 1 swordfighter moving right or ship 2 swordfighter moving left) loses twice as many men if he is killed. A retreating swordfighter (ship 1 swordfighter moving left or ship 2 swordfighter moving right) kills only half as many men, and loses only half as many men, and loses only half as many

EXAMPLES. These examples are given so you will understand how casualties are calculated. You do not have to calculate these results yourself. The computer does all of that for you and will also display the new crew total at the end of each round. In fact, it is easy to tell who won a particular round because you will see the loser's crew total decrease. All these examples assume that the swordfighters are adjacent after any movement.

Example 1: Player 1 chooses to hack and stands still. Player 2 chooses to counter-thrust and advances.

Results: Player 2 will lose 12 men because Player 2 will suffer 2 times the normal losses in a round in which he advances.

6 (normal losses) \times 2 = 12

Example 2: Player 1 chooses to thrust and advances. Player 2 chooses to counter-thrust and retreats.

Results: Player 1 will lose 2 men. The normal amount of losses (2 men) is first multiplied by 2 because you lose twice as many men when you advance and lose a round, but in addition to this Player 2 retreated so the number of losses is divided by 2 because you only kill ½ as many men in a round in which you retreat.

2 (normal losses) × 2 × ½ = 2

Example 3: Player 1 chooses to hack and stands still. Player 2 chooses to hack and stands still.

Example 4: Player 1 chooses to hack and advances. Player 2 chooses to hack and stands still.

Results: Player 1 loses 12 men (double losses due to advancing). Player 2 loses

losses due to advancing). Player 2 loses 6 men.

BOARDING STRATEGY. To win the game through boarding, you must play

ncing swordfighter
r moving right or
moving left) loses
if he is killed. A
iter (ship 1 swordor ship 2 swordby kills only half as
es only half as many

an aggressive game. Your swordfighter
must advance to engage the other
swordfighter. If you play a defensive
game, you will lose less men during
boarding, and you will end the boarding
(disengage) earlier.

6.2 BOARDING COMMANDS

the keyboard for inputting commands. It is necessary to time when you hit the key on this screen to make sure the command 'takes'. Sniper commands (to make the sniper shoot at other snipers, enemy on other deck, or enemy on own deck) must be given right before that sniper shoots. Swordfighter attack movements (counter-thrust, thrust, and hack) must be given right before the

The boarding phase always uses

SWORDFIGHTER MOVE RIGHT

swordfighter attacks.

Move the ship 1 swordfighter to the right to make him more offensive, or move the ship 2 swordfighter to the right to make him more defensive. The keys to hit to cause this action are:

SHIP 1 (Violet/dark) SHIP 2 (Green/light)		
-> F	APPLE APPLE	
, F	APPLE	
↓ m	ATAR	

SWORDFIGHTER MOVE LEFT

Move the ship 1 swordfighter to the left to make him more defensive, or move the ship 2 swordfighter to the left to make him more offensive. The keys to use are:

SHIP 1 (Violet/dark) SHIP 2 (Green/light)	
^ D	APPLE II & II+
^_ ;	APPLE APPLE

SWORDFIGHTER COUNTER-THRUST

The counter-thrust is a short thrust and is the most defensive of the sword actions. It results in the least number of enemy crew being killed. The counter-thrust beats the thrust and kills 2 men. If both players choose to counter-thrust, then they will kill 0 men. Keys to use are:

	8	0	0	SHIP 1 (Violet/dark) SHIP 2 (Green/light)
2	VLV	APPLE	APPLE II & II+	

SWORDFIGHTER THRUST This sword movement is not as del

This sword movement is not as defensive as the counter-thrust and not as offensive as the hack. It results in more enemy crew being killed than the counter-thrust when the movement kills the enemy. The thrust beats the hack and kills 4 men. If both players choose to thrust, then they will each lose 4 men. The correct keys are:

SHIP 1 (Violet/dark) 2 SHIP 2 (Green/light) :	APPL II & II
:	APPLE II & II+
2	APPLE
9	ATARI

SWORDFIGHTER HACK

This is the most offensive of the three sword movements. If successful, it will kill the most enemy crew. The hack beats the counter-thrust and kills 6 men. If both players choose to hack, then they will each kill 6 men. To execute this command, use keys:

co co	
SHIP 1 SHIP 2	
(Viole (Gree	
SHIP 1 (Violet/dark) SHIP 2 (Green/light)	
3	APPLE II & II+
3	APPLE
	ATAR

SNIPER AIM AND FIRE AT OTHER SNIPERS

Use this command to make the sniper aim at the other ship's snipers. For each sniper, you must hit the appropriate key right before the sniper fires. Then you will see the sniper's musket aim at the other snipers. Due to the difficulty of hitting enemy snipers, the percentage chance to hit an enemy sniper is 25% of the normal hit percentage. The keys to use are:

SHIP 1 (Violet/dark) SHIP 2 (Green/light)	
0	APPLE II & II+
0	APPLE
8 1	ATAR

SNIPER AIM AND FIRE AT ENEMY ON OTHER DECK

This command will make the sniper tire at the enemy crew on the enemy's ship. The keys to use are:

	APPLE	APPLI
SHIP 1 (Violet/dark)	2	2
SHIP 2 (Green/light)		1

SNIPER AIM AND FIRE AT ENEMY ON OWN DECK

a man in one of the positions 1 through 10 on the ship decreases. If the sniper hits is engaged in hand-to-hand combat. The than on your own deck where the enemy easier to pick out a clear enemy target on or an enemy's crew member. It is much while aimed at his own deck, he will kill chance increases as the number of enemy miss and hit a man on his own side. This is always a chance that your sniper will of enemy crew on your own deck, as there only when there is a significant number the enemy's deck or rigging (other snipers) (see boarding picture) whether he is yours We recommend that you use this command

	100
	neya
	1
	- 62
	100
	noc
	24
	- 0
100	
1	10
	10
100	1
	80
	17.71
-	- 5
=5	- 0
Aug 700	
* E	H
Taday	THILL
T- 1	THILL
干無	THILITIES
干無	прин
干無	ПППапа
干無	THE COMMISSION OF
干無	
五年	
E APPLE	
干無	חווומווע מוכי

	APPLE II & II+	APPLE	ATARI
SHIP 1 (Violet/dark) SHIP 2 (Green/light)	1 3	ω	0

6.3 SURRENDER

crew members have boarded the ship. For one fourth of its original crew size as long men, the game is a draw. below 120. If both crews drop below 120 the first ship will lose if its crew drops example, if both crews start with 480 men its original size, or whenever 11 enemy as the other crew is greater than a fourth of total crew remaining is reduced below A ship will surrender whenever its



first. If both ships lose, 6 P.M., whichever comes or if the time reaches ship wins or loses, or at The game ends if either

6 P.M. before one ship

to board your ship during boarding and lose if 11 enemy crew members manage crews of both ships go below a fourth below a fourth of its original size. If the broadside. Under these conditions it is greater than 10 times the original to surrender; this will happen if your the game will be a draw. You will also of their original size at the same instant You will lose it your crew size goes assumed that the enemy's morale has score less the score of your opponent is enough points to force the enemy ship also win if your ship can accumulate win it you sink the enemy ship. You will can win, the game is a draw. You will broken and he has struck his colors. number of guns on the enemy ship's

> 6.3), the victorious player will receive renders during boarding (see section awarded for damaging enemy ships the game will be a draw. Points are members occupying any of the first ten surrendering crew. points as if he had killed the entire boarding positions. If both ships sink, you have no standing friendly crew (see sections 7.1 to 7.4). If a ship sur-

7.1 POINTS FOR DESTROYING SAILS AND MASTS

mast middle section, and 10 points for each mast top section, 5 points for each points. Cumulative bonuses awarded quarters, you will have earned 375 250 points for sail damage; if threeopponent's sails, you will have earned sails. If you knock out one-half of your knocking out all of your opponent's for knocking out masts are 5 points for There are 500 points possible for

> damage. Players will find that it is easier masts with one or more broadsides, you each mast bottom section. Thus if you to destroy top mast sections, as well as will have earned 20 points for mast the middle section of the rear mast. knock out one of your opponent's

POINTS FOR DESTROYING HULL

are as follows: destroyed. Bonus points for hull points addition, non-cumulative bonuses are awarded if 30 or more hull points are hull point that your opponent loses. In You will tain two points for each

	150-179	120-149	90-119	60-89	30-59	ILL POINTS DESTROYED	
2000	800	400	200	100	30	POINTS AWARDED	

enemy hull points, you will earn 132 regular For example, if you have destroyed 66 sink and you will win. ponent loses all of his hull points, he will 232 points for hull damage. If your oppoints, plus 100 bonus points, for a total of

7.3 POINTS FOR KILLING

es are awarded as follows: point. In addition, non-cumulative bonusyou will accumulate one-half of a victory For each enemy crew member killed,

1000+	900-999	800-899	700-799	• 600-699	500-599	400-499	300-399	200-299	100-199	NUMBER OF CREW KILLED
1850	1450	1175	925	700	500	350	225	125	50	POINTS AWARDE

to enemy crew losses. bonus points, for a total of 400 points due have earned 175 regular points plus 225 For example, if your opponent started with 1,000 men and now has only 650, you

7.4 POINTS FOR DESTROYING GUNS

broadside are destroyed, as follows: it a large number of guns on an enemy addition, cumulative bonuses are available opponent's guns that you destroy. In You will earn 4 points for each of your

80-89	70-79	60-69	50-59	40-49	30-39	20-29	10-19	NUMBER OF GUNS DESTROYED ON ONE BROADSIDE
1425	1175	925	675	425	300	200	100	D NUMBER OF POINTS AWARDED

opponent's guns on his port broadside, damage points gained. bonus points, for a total of 284 gun you will gain 84 regular points plus 200 For example, if you destroy 21 of your

7.5 BONUS POINTS FOR THE VICTOR

(720 - 150) points. 8:30:00 and thus receives a bonus of 570 elapsed. Example: Player 1 sinks Player 2 at bonus equal to: 720 – number of minutes The victorious player will receive a

7.6 FINAL VICTORY POINT DETERMINATION

game against a human opponent) the final number of points awarded to the victorious player is equal to: In the tactical game (and in the arcade

POINTS OF VICTOR + TIME BONUS - POINTS OF LOSER

(i.e., if you manage to sink three ships, you subtraction of loser's points). Furtherby the victorious ship (no time bonus or number of points awarded to the victorious the damage done to all three ships). ships will be added together at the end more, the points scored against multiple player is equal to the points accumulated will be given the points you received for In the solitaire arcade game the final

however, no time bonus is awarded: number of points awarded is calculated in the same manner as in the tactical game, In the "boarding only" game, the final

- POINTS OF LOSER POINTS OF VICTOR

specified on variables cases you will be forced All data given can be pages 1, 2 and 3 (in some historical ships of the era Use this data to simulate

section for some historical battles. single ship battles. See the end of this between frigates were the most common British number of guns is given. Battles ships of other countries, the equivalent guns than they were rated for. For the tion. Also, ships usually carried more called frigates. In this rating system, carships of the line and fifth rates were guns. Rates one through four were called are not specified because they are always ronades were not taken into considerafifth rate 32-44 guns, sixth rate 20-30 rate 64-89 guns, fourth rate 50-60 guns, 100+ guns, second rate 90-98 guns, third were divided into categories known as 1.00 × standard. Ships in British service to round off values). Boarding casualties rates. First rate ships were ships with

8.1 BRITISH SHIPS

set the loading time for both players generally kept in good condition and a whole were superior and one of the average in quality as the figures below in most cases you will probably want to other nation's, but for game purposes, repairing damage during battle repair. British crews were also good at waves." Another reason for their supereflect. The British crews and officers as fairly equal. fire was almost twice as fast as any fighting machines. The British rate of keeping the ships working as excellent riority was that British ships were main reasons why "Brittania ruled the British built ships were really

given a rate of fire that is 50-75% of the rate of fire given for the ship. fire chain shot. British crews should not be allowed to Historical notes: British crews should be

NUM TYPE	FIRE	TURN	SPEED	SHOT	HULL	CREW	FIRE TURN SPEED SHOT HULL CREW SNIPER%
FIRST RATE							
100+ 5 24lbC	3:00	4:30	2.4kn	1.00	115	875	15%
21 12lb							
14 24lb							
15 42lb							
SECOND RATE							
98 5 18lbC	2:30	4:30	2.4kn	1.00	110	750	15%
20 12lb							
15 18lb							
14 32lb							

	20				24			28	SIXTH			32				36				44	HETH!				50			60	FOURT				64				74				80	THIRD RATE	Z	
10	4	11	2	_	S	12	2	s	RAT	13			13	1	4	4	10	111	3	4	RATI	11	12		w	14	13	5	H R	13	13	6	5	14	14	9	Oi	13	13	12	51	RAT	M	0
9Ib	12lbC	9116	6lb	24lbC	18lbC	9116	6116	24lbC	SIXTH RATE (FRIGATES)	12lb	6lb	24lbC	18lb	12lb	9116	32lbC	18lb	12lb	6lb	18lbC	FIFTH RATE (FRIGATES)	24lb	12lb	24lbC	12lbC	24lb	12lb	6lb	ATE (FR	24lb	18lb	9116	18lbC	32lb	18lb	9Ib	181bC	32lb	18lb	9116	18lbC	H	NUM TYPE	SNI
	1:30				1:30			1:30	ATES)			1:40				1:50				1:50	ATES)				2:10			2:10	FOURTH RATE (FRIGATES)				2:10				2:30				3:30		FIRE	
	1:10				1:20			1:20				1:30				1:50				2:20					2:20			2:40					3:00				3:30				3:30		TURN	
	3.4kn				3.4kn			3.4kn				3.4kn				3.1kn				2.9kn					2.9kn			2.9kn					2.6kn				2.6kn				2,6kn		SPEED	
	1.00				1.00			1.00				1.00				1.00				1.00					1.00			1.00					1.00				1.00				1.00		SHOT	
	30				35			35				40				45				55					60			65					65				85				85		HULL	
	200				200			200				3 0				300				300					420			480					650				650				650		CREW	
	8%				8%			8%				8%				8%				8%					15%			15%					15%				15%				15%		SNIPER%	

8.2 FRENCH SHIPS

and the amount of crew the French put below reflect the qualities of the ships twice as slow as the British. The figures British with the rate of fire being about qualities than the British but were often increase the turning speeds about 10%, the rate of fire considerably up to twice, for the quality of French crews, increase on each ship. If you want to compensate definitely on the whole inferior to the in poor condition. The crews were French ships had better sailing

GUNS

and lower the shot damage to .80. The

Historical notes: French crews should be given a rate of fire that is 100–150% of the rate of fire given for the ship. sized British shot. In the game you much better than the French actually probably will want to play with crews reason the shot damage is set at 1.10 is Increase turning speed by 10%. to reflect the fact that the French shot were. Feel free to do so. was actually heavier than the equivalent

120	NUM TYPE 14 8lbC 17 12lb 17 24lb 16 36lb 16 12lb 16 24lb 15 36lb 3 42lbC 9 12lb 16 24lb 16 24lb	2:50 2:50 2:50	5:20 5:20 4:40 3:30	2.3kn 2.4kn 2.4kn 2.6kn	1.10 1.10 1.10	140 125 95	1098 1037 1037	30% 30%
80	16 24lb 15 36lb 3 42lbC 9 12lb 16 24lb 15 36lb	2:50	3:30	2.6kn	1.10	95	840	
74	The same of the sa	2:50	3:10	2.6kn	1.10	85	690	
FRIGATES 40 2 6	ATES 2 42lbC 6 8lb 14 18lb	1:50	1:50	3.1kn	1.10	50	330	
38		1:50	1:40	3.1kn	1.10	45	320	
36	2 42lbC 5 6lb 13 12lb	1:40	1:40	3.1kn	1.10	45	300	
32	2 42lbC 3 6lb 13 12lb	1:40	1:30	3.4kn	1.10	40	275	
28	3 42lbC 1 6lb	1:30	1:20	3.4kn	1.10	35	200	

8.3 AMERICAN SHIPS

any nation of the period. They just tage of carronades on many ships than didn't have many of them. The figures had the best quality crews and ships of as good as other American ships. The gunners made at the end of the War of other nations. There were four 74-Americans employed a higher percensuperior to those of any other nation. You will note that the frigates are far below reflect typical American ships. 1812 that never saw action and were not Without question the Americans

> reflect the greater number of hits. to raise shot damage to 1.3 or higher to of most American crews you might want that fired them. If however you want to American shot was inferior (some would shot damage is set at .90 because weighed less than the rate of the guns just break apart in flight), and generally take into account the superior accuracy

the rate of fire given for the ship. be given a rate of fire that is 50-75% of Historical notes: American crews should

	18	20	24	T.2	28	T.1	28	T.2	32	T.1	32		36		38	T.2	44	T.1	44	FRIC			74	
8 24lbC	2 12lb	10 9lb	13 12lb	12 12lb	3 6lb	12 12lb	2 6lb	13 12lb	6 9Ib	20 32lbC	3 18lb	13 18lb	10 32lbC	14 18lb	10 32lbC	15 24lb	10 42lbC	15 24lb	11 32lbC	FRIGATES	15 32lb	16 32lb	12 32lbC	GUNS NUM TYPE
	1:40	1:30	1:20		1:20		1:20		1:20		1:10		1:30		1:30		1:50		1:50				2:10	FIRE
	0:50	0:50	1:00		1:10		1:10		1:20		1:30		1:40		1:40		1:50		1:50				3:00	TURN
	3.6km	3.6kn	3.4kn		3.4kn		3.4kn		3.4kn		3.4kn		3.6kn		3.6kn		3.4kn		3.4kn				2.9kn	SPEED
	0.90	0.90	0.90		0.90		0.90		0.90		0.90		0.90		0.90		0.90		0.90				0.90	SHOT
	30	30	40		40		40		50		55		60		65		70		80				100	HULL
	150	200	200		230		220		328		328		340		340		470		470				800	CREW
	8%	8%	8%		8%		8%		8%		8%		8%		8%		15%		15%				30%	SNIPER%

21

These are included mainly to give you a selection of different ships. The Spanish navy was in terrible condition and corrupt at the highest levels. In addition to that they spent most of their of a very poor quality, definitely inferior time in port. The crews as a whole were

to the French. The figures below reflect ship qualities and not crew qualities.

Historical notes: Spanish crews should be given a rate of fire that is 125-175% of the rate of fire given for the ship. Increase turning speed by 10-20%.

		20	34	40	FRIG			64	T.2	74			T.1	74	T.2	80		T.1	80			110				136	
10.	ale	10 8lb	4 8lb 13 12lb		FRIGATES	13 24lb		6 8lb	15 18lb	8 8Ib	15 24lb	14 24lb				9 8lb	15 36lb	5 8lb	12 42lbC	16 18lb	16 12lb	9 8lb	15 32lb	16 18lb	16 12lb	18 8lb	GUNS NUM TYPE
	2000	1:30	1:40	1:50				2:10		2:10				2:10		2:50			2:50			2:50				2:50	FIRE
)	0:50	1:20	1:40				2:40		3:00				3:10		3:20			4:00			4:40				5:20	TURN
		3.6kn	3.4kn	3.1kn				2.9kn		2.6kn				2.6km		2.6kn			2.4kn			2.4kn				2.3kn	SPEED
		1.00	1.00	1.00				1.00		1.00				1.00		1.00			1.00			1.00				1.00	SHOT
	d	30	35	40				65		75				75		80			95			110				130	HULL
	3	130	240	281				474		545				623		656			856			888				1005	CREW
100	*	8%	8%	8%			0	8%		8%				8%		00%			15%			15%				30%	SNIPER%

8.5 SHIPS STORED ON THE GAME DISK*

vs. FORTE (FRENCH) 4 32lbC 7 8lb 15 24lb	OPTION A SYBLLE (BRITISH) 7 32lbC 3 9lb 14 18lb	VILLE DE MILAN (FRENCH) 10 8lbC 1:30 13 18lb	LEVEL 3. CLEOPATRA (BRITISH) 5 24lbC 2:0 16 12lb	vs. LA VENGEANCE (FRENCH) 4 32lbC 1:50 16 18lb 7 12lb	LEVEL 2. CONSTELLATION (10 24lbC 14 18lb	V8. CONSTITUTION (AMERICAN) 11 32lbC 1:30 1: 15 24lb	VICTORY (BRITISH) 1 68lbC 15 42lb 21 12lb	NUM TYPE FIRE TURN SPEED SHOT I
1:50	1:30	FRENCH) 1:30	ISH) 2:00	RENCH)	(AMERICAN) 1:50 2:0	MERICA 1:30	2:20	FIRE
1:50	1:40	1:50	1:40	2:10	AN) 2:00	N)	3:20	TURN
3.1	3.1	3.6	3.4	3.1	3.4	3.4	2.6	SPEED
1.00	1.10	1.20	1.00	1.10	1.00	.90	1.00	SHOT
60	45	66	50	54	48	70	110	HULL
370	370	368	220	547	320	420	836	CREW
8%	15%	15% (plus 2.00 × standard board- ing casualites)	8%	15%	15%	15% (plus 2.00 × standard board- ing casualties)	30% (plus 2.00 × standard board- ing casualities)	SNIPER%

^{*}New feature in Apple 2.0 version.

OPTION E UNITED STATES (AMERICAN) 44 10 42lbC 1:30 2:10 3.1kn 0.90 70 470 15% 15 24lb vs. MACEDONIAN (BRITISH) 44 4 32lbC 1:40 1:30 3.6kn 1.00 50 320 8% 2 12lb 13 18lb	vs. GUERRIERE (BRITISH) 44 4 18lbC 1:40 2:10 3.1kn 1.10 50 270 8% 3 6lb 12 18lb 11 24lb	OPTION D CONSTITUTION (AMERICAN) 44 11 32lbC 1:30 1:50 3.4kn 0.90 70 420 15% 15 24lb	vs. L'INSURGENTE (FRENCH) 38	OPTION C CONSTELLATION (AMERICAN) 38 5 12lb 1:20 1:30 3.8kn 0.90 60 320 8% 14 24lb	vs. BAIONNAISE (FRENCH) 1 42lbC 1:30 1:20 3.4kn 1.20 35 320 15% 3 6lb 12 8lb	OPTION B AMBUSCADE (BRITISH) 4 24lbC 1:30 1:20 3.4kn .80 35 220 8% 16 12lb	NUM TYPE FIRE TURN SPEED SHOT HULL CREW SNIPER%
--	--	--	-------------------------------	--	--	---	---

vs. CLEOPATRE (FRENCH) 36 2 42lbC 2: 5 6lb 13 12lb	OPTION H NYMPHE (BRITISH) 36 4 32lbC 4 9lb 1 12lb 13 18lb	vs. SERAPIS (BRITISH) 44 4 6lb 10 12lb 10 18lb	OPTION G BONHOMME RICHARD (AMERICAN) 42 4 9lb 1:30 2:20 : 14 12lb 3 18lb	VS. HERCULES (FRENCH) 74 2 42lbC 3 8 8lb 15 24lb 14 36lb	OPTION F MARS (BRITISH) 74 5 18lbC 9 9lb 14 18lb 14 32lb	GUNS NUM TYPE
H) 2:00	1:30	1:30	RD (A)	3:00	1:50	FIRE
1:40	1:50	2:00	MERICA 2:20	3:20	3:30	TURN
3.1kn	3.1kn	2.9kn	N) 2.4kn	2.6kn	2.6kn	TURN SPEED
1.10	1.00	1.00	1.10	1.10	1.00	ТОНВ
40	40	60	50	90	98	HULL
320	220	270	420	670	620	CREW
8%	8%	8%	15%	15%	15%	SNIPER%

9.0 Glossary of Terms

ARCADE GAME Broadsides allows for two types of play, 'arcade' and 'tactical'. Fewer commands are available in the arcade game.

BATTLE SAIL Battle sail was the normal sail and rigging configuration used by a ship in action. Many of the sails were 'clewed up,' giving the ship less speed, but causing the masts and sails to be less vulnerable to enemy fire.

BOARDING A boarding action occurred when one ship was able to

grapple with the other ship, to allow the crew members of the two ships to engage in hand-to-hand combat.

BROADSIDE A broadside occurred when all the cannons on one side (either port or starboard) were fired simultaneously at a target.

CARRONADE A carronade was a short-barrelled, large caliber gun designed for short ranges. It was invented in 1779 by the Carron Company in Scotland.

FULL SAIL Full sail allowed ships to increase their speed by setting more sails. This increased strain on masts and rigging, and made them more vulnerable to enemy fire.

GRAPPLES Grapples were used to keep the two ships together so boarding could continue. In the game, you can break the grapples on your ship by moving your swordfighter back behind

27

the bulwark (see boarding screen picture and explanation) on your ship.

KNOT One nautical mile per hour. A nautical mile is approximately 6080 feet

OPTION There are six options shown on the options page: game controller, number of players, arcade or tactical type of game, regular game or boarding screen only, level of play, and change variables.

PORT The left side of the ship as you stand on the ship facing forward.

SNIPER Snipers used muskets to shoot at the enemy and were positioned in the rigging of the ships.

STARBOARD The right side of your ship as you face forward on the ship.

SWORDFIGHTER Represents hand-to-hand fighting with swords during boarding actions.

TACTICAL GAME There are two types of games that can be played: arcade and tactical. The tactical game has more command options.

YARIABLE The game variables specify the characteristics of each ship. These can be altered one by one on the variables pages. Some of the variables are crew size, strength of hull, and type and number of cannons. The game is designed to enable you to change any or all of the characteristics of each ship before each game begins.



Game Design & Programming
Wayne Garris

Game Development
Joel Billings

Art & Graphic Design Louis Hsu Saekow, Don Woo and Kathryn Lee

Typesetting
Abra Type

Printing
A&a Printers and Lithographers

If you have any questions or problems regarding the program or game, please send a self-addressed, stamped envelope with your question to: STRATEGIC SIMULATIONS INC. 883 Stierlin Road, Bidg. A-200, Mountain View, CA 94043-1983. Or call our Hotline Number: (415) 964-1200 every weekday, 9 to 5 (P.S.T.)