

Midway Campaign[®]

AVALON HILL'S TRADEMARK NAME FOR ITS
WWII PACIFIC THEATRE MICROCOMPUTER GAME

**Computer Game
Cassette for:**
Atari Home
Computers, 32K
Commodore 64, 64K
TRS-80 Color, 32K
VIC-20, 16K
Timex/Sinclair, 16K
No. 40102



microcomputer games[®]

A DIVISION OF THE AVALON HILL GAME COMPANY

Midway Campaign

COMPUTER SIMULATION GAME



6 June 1942: The dawn sun glints off the waves of the vast Pacific Ocean. You wait anxiously on the bridge of your flagship for contact reports from the PBV scout planes based at Midway Island. Suddenly, the early morning quiet is pierced by the shout of the radio man:

“Japanese carriers spotted 150 miles northwest of Midway!”

You order the carriers of Task Force 16 to head into the wind and launch the strikes you have been arming since 0300 hours. Just as a precaution, you leave the Yorktown in Task Force 17 out of the first strike, ready to deliver the knock-out blow after the strikes from Enterprise and Hornet have ravaged the four Japanese carriers: Kaga, Akagi, Soryu, and Hiryu; the pride of the Japanese fleet. Just as the last SBD is catapulted off the deck of the Enterprise, the radio man relays some alarming news:

“Japanese scout planes have sighted Task Force 16!”

It has now become a race to see if the Japanese can arm and launch their strike before your planes arrive. If you can catch them with arming aircraft on the decks, the battle is all but won. If you don't, then hope the F4F

fighters you left on patrol over TF 16 can shoot down enough Japanese planes to save the Enterprise and Hornet.

Thus begins one of the most important naval engagements in modern history. Will you achieve the same stunning success that history records, or will you be nothing more than a temporary inconvenience to the “invincible” Imperial Japanese Navy?

THE MIDWAY CAMPAIGN is a computer simulation of the battle for Midway Island. Your microcomputer controls a huge force of Japanese ships whose objective is to invade and capture Midway Island. If the Japanese can win air superiority over Midway, the success of the invasion is virtually guaranteed. If not, they will be forced to turn back to prevent the loss of irreplaceable troops who would be totally vulnerable in their invasion craft. In the actual engagement, the Japanese made several tactical errors which cost them the battle. Your computer probably won't make the same mistakes! You command the badly outnumbered and outranged U.S. Navy forces. Your only advantage is surprise.

This computer simulation faithfully recreates the World War II naval battle of Midway on the Atari® Computer with 32K memory, Commodore 64®, TRS-80® Color Computer with 32K memory and Extended BASIC, Timex/Sinclair 1000® with 16K memory, or Commodore VIC-20® with 16K memory expansion.

* Trademarks of Warner Communications, Commodore Business Machines, Tandy Corporation, and Timex Corp.

This game package contains a complete set of instructions and software with the programs for the above computers.



© 1983 Microcomputer Games, Inc.
a division of
The Avalon Hill Game Company
Baltimore, Md. Printed in USA

© The Avalon Hill Game Co. 1983 All Rights Reserved
Computer Program & Audio Visual Display Copyrighted

Midway Campaign

AVALON HILL'S TRADEMARK NAME FOR THE
WWII PACIFIC THEATRE MICROCOMPUTER GAME

Computer Game
Category No. 1
EFT No. 100
Computer No. 500
Computer No. 500
Retail Price: \$24
MSRP: \$24
Retailer: \$24
No. 40102



microcomputer games
A Division of Avalon Hill Game Company



microcomputer games

A DIVISION OF THE AVALON HILL GAME COMPANY

Midway Campaign

COMPUTER SIMULATION GAME



6 June 1942: The dawn sun glints off the waves of the vast Pacific Ocean. You wait anxiously on the bridge of your flagship for combat reports from the P-51 scout planes based at Midway Island. Suddenly, the early morning quiet is pierced by the wail of the radio horn:

"Japanese carriers spotted 150 miles northwest of Midway!"

You order the carriers of Task Force 16 to head into the wind and launch the strikes you have been arming since 0300 hours. Just as a precaution, you leave the Yorktown in Task Force 17 out of the first strike, ready to deliver the knockout blow after the strikes from Enterprise and Hornet have ravaged the four Japanese carriers: Kaga, Akagi, Soryu, and Hiryu, the pride of the Japanese fleet. Just as the last B-26 is catapulted off the deck of the Enterprise, the radio man relays some alarming news:

"Japanese scout planes have sighted Task Force 16!"

It has now become a race to see if the Jackfish can win and launch their strike before your planes arrive. If you can outpace them with arming aircraft on the decks, the battle is all but won. If you don't, then hope the F-4F

fighters will kill an entire fleet of 11 heavy bombers down enough Japanese planes to save the Enterprise and Hornet.

This brings one of the most important naval engagements in modern history 100 years into the future. You can witness the same stunning aerial technology records, or will you be testing more than a temporary improvement to the "invincible" Japanese Navy?

THE MIDWAY CAMPAIGN is a computer simulation of the battle for Midway Island. Four microcomputers control a huge force of Japanese ships whose objective is to invade and capture Midway Island. If the Japanese win with an ingenious Navy Midway, the success of the invasion is virtually guaranteed (no, they will be forced to turn back to prevent the loss of irreplaceable troops who would be truly vulnerable in their invasion effort. In the actual engagement, the Japanese made several tactical errors which cost them the battle. Your computer probably won't make the same mistakes! You command the fleet's outnumbered and outgunned U.S. Navy forces. Your only advantage is surprise.

This computer simulation faithfully recreates the World War II naval battle at Midway on the "Home" Computer with 128K memory, Commodore 64P, Trigon, Color Computer with 128K memory and Extended BASIC, Texas Instruments 128K with 128K memory, or Commodore 8000P with 256K memory expansion.

This game package contains a complete set of instructions and software with the programs for the above computers.

with
options

microcomputer games
A Division of THE SOFTWARE SOURCE, INC.

1000
1000
1000

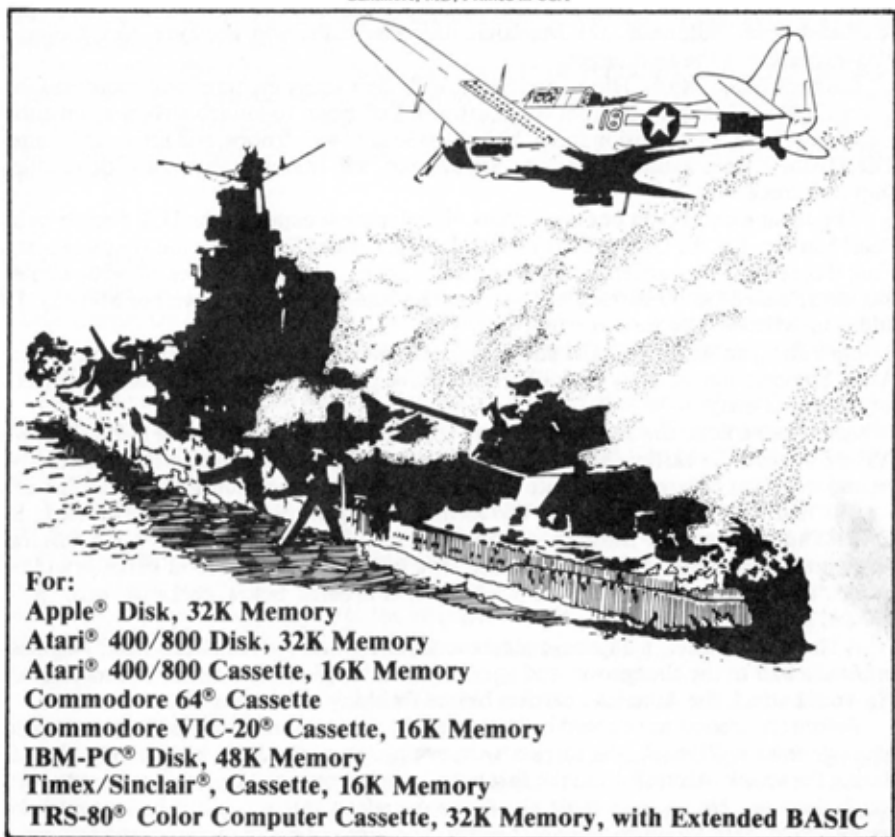
© 1982 The Software Source, Inc.
All Rights Reserved.
The Software Source, Inc.
1000
1000
1000

MIDWAY

Campaign

RULES FOR THE MIDWAY
CAMPAIGN COMPUTER GAME

©1983 Microcomputer Games, Inc. division of The Avalon Hill Game Co.
Baltimore, MD, Printed in USA



For:

Apple® Disk, 32K Memory

Atari® 400/800 Disk, 32K Memory

Atari® 400/800 Cassette, 16K Memory

Commodore 64® Cassette

Commodore VIC-20® Cassette, 16K Memory

IBM-PC® Disk, 48K Memory

Timex/Sinclair®, Cassette, 16K Memory

TRS-80® Color Computer Cassette, 32K Memory, with Extended BASIC

* Trademarks of Warner Communications, Apple, Commodore, Tandy Corp., International Business Machines and Timex Corp.

The Midway Campaign Computer Game is a computer simulation of the Battle of Midway. You take the U.S. side and the computer controls the Japanese forces.

HISTORICAL BACKGROUND

June 1942. The Pacific Theatre. The Imperial Japanese Navy has been on the offensive, victorious everywhere, for six months. Already conquered are the Philippines, southeast Asia, Indonesia, the Marianas, the Marshalls, and northern New Guinea. Midway Island is the next target.

Carriers Akagi, Kaga, Hiryu, and Soryu with their screening force will spearhead the attack. They will approach from the northwest and begin to launch strikes against the island on 4 June. The invasion force, transports loaded with troops, will arrive on 5 June. The Japanese Commander, Admiral Yamamoto, will follow to the west with a battleship task force.

The Japanese plan had one major flaw. The Japanese expected the U.S. fleet to be in Pearl Harbor. But the U.S. had broken the Japanese code. They knew the Japanese plan. Task Force 16 with carriers Enterprise and Hornet, and Task Force 17 with carrier Yorktown sailed from Pearl Harbor and took up station to the northwest of Midway. In addition, Midway airbase was reinforced.

On 3 June, an Army PBV Catalina spotted the invasion force to the west of the island. Army bombers immediately took off from Midway to attack them, but failed to inflict any serious damage.

At the same time, the Japanese carriers approached undetected to the north. At 4:45 AM on 4 June, the carriers launched the first wave against the island—108 planes. The second wave was ordered armed with torpedoes in case an enemy naval force was sighted.

The first wave struck the island. The zeros escorting the bombers shot down the U.S. CAP. The bombers hit the airbase, but did not completely knock it out. Admiral Nagumo, commander of the carrier force, was informed that a second strike would be needed against the island. The second wave was ordered below decks to rearm with bombs.

A short while later, a Japanese seaplane scout sighted the American fleet. Nagumo ordered a halt to the changeover and again ordered the planes be armed with torpedoes. He would attack the American carriers before finishing off the island.

Before the second wave could be launched, the carriers were attacked by planes from Midway airbase. Though, the carriers were not hit, they could not launch their aircraft during the attack. Aircraft from the first wave began to return. Nagumo was faced with a tough decision. He knew he must attack the American carriers, but if he launched the second wave there would be no fighter escort, and many of the planes from the first wave would crash not having enough fuel to stay in flight that long. He decided to let the first wave land and ordered the second wave below decks.

Unknown to Nagumo, another PBV Catalina had spotted the Japanese carriers and the U.S. carriers had launched their own strike. Flying in several separate groups by separate routes, many of the American planes never found their target.

The first aircraft to find the Japanese carriers were two squadrons of torpedo bombers. Without fighter cover, they were sitting ducks for the Japanese CAP. Both squadrons were totally destroyed. Shortly after, another squadron suffered a similar fate. The carriers had again escaped without damage.

Now the Japanese CAP was running low on fuel and the zeros began to land. Two squadrons of American dive bombers found the carriers and attacked. The first four planes scored hits on the Akagi. The planes refueling above and below deck began to explode. The ship began to sink. The Akagi and Soryu were next and both took multiple hits. Though they would not sink till evening, they were out of the battle.

Only the Hiryu escaped, having separated slightly from the others. She then launched a small strike against the U.S. carriers. The Japanese planes trailed the American planes all the way home to the Yorktown. The American CAP shot down most of the Japanese dive bombers, but the few that got through hit their target. Then the Japanese torpedo bombers arrived and scored several more hits. The Yorktown, heavily damaged, would sink on 7 June while trying to make it back to Pearl Harbor after being hit by a torpedo from a Japanese submarine.

Shortly after, the Hiryu was attacked by American dive bombers. Four direct hits were scored. She would burn for eleven hours before a Japanese destroyer finished her off with a torpedo. Several other Japanese ships were sunk as they retreated, but the battle was over. The invasion force turned back. The Japanese expansion across the Pacific had been slowed.

GAME MECHANICS

There are two different modes in the game; the interactive mode and the operations mode. During the interactive mode, the player inputs Fleet and Aircraft commands until he is satisfied with his forces' configurations. He then instructs the computer to proceed in the operations mode for a given amount of game time.

Fleet Commands, and the Aircraft Commands reached through the Fleet Commands, allow the US player to adjust his forces or to obtain status reports. Each command, except for the order to proceed, loops back to the request for a Fleet Command. No game time passes while executing Fleet Commands.

In the operations mode the computer loops by tactical turns until the allotted proceed time is reached or a significant event occurs, at which point it enters the interactive mode. Each tactical turn the computer decides and executes Japanese actions, moves forces, conducts search, conducts air strikes, land strikes and tests for end of game. It then loops back either to another tactical turn or the interactive mode. Tactical turns are thirty to sixty minutes of game time each.

FLEET COMMANDS

Fleet Commands are: 'M'—display Map, 'S'—display Status report, 'T'—change Task Force courses, 'A'—enter Aircraft Commands.

Input of any (integer) number (1-9) causes the computer to proceed to the operations mode for that number of hours or until a significant event such as an attack or a spotting occurs. Pressing the CARRIAGE RETURN key causes the computer to conduct one tactical turn and return to the Command mode.

A carrier (CV) is designated by the first letter of its name: E (Enterprise), H (Hornet), Y (Yorktown) and M (Midway). For the purpose of the game Midway is considered a non-moving CV.

THE MAP

The map consists of a 12 × 12 array of dots. The dots are 100 nautical miles (nm) apart. True North is straight up. Symbols on the map show the position of various forces. The symbols are '*'—Midway, ('M' for IBM) '6'—TF-16, '7'—TF-17 and 'J'—Japanese task force. If the Japanese force is known to contain carriers (CV's) it will use a 'C' as the symbol. Japanese force positions are only displayed if the force has been spotted.

Time, date and US Task Force (TF) courses are given on the map. Contact positions are given with the lower left hand dot referenced as 1 1. Thus a position of 7 3 is seven dots to the right and three up from the lower left corner dot. Occasionally a contact may be just off the left hand edge of the map. In this case it will have no visible symbol and a position of 0 4, for example, is possible. The map is displayed on the 'M' command and on entry to the interactive mode (except Atari & IBM).

STATUS REPORT

A command of 'S' causes display of the status report. The report gives time, date, the aircraft status of US CV's, the spotted status of US CV's, the damage status of US CV's and a contact report.

CHANGING COURSE

A command of 'T' results in a request for TF number and new course. 0 or 360 are North (up), 90 is East (right), 180 is South (down) and 270 is West (left). Any course in between may also be used.

AIRCRAFT COMMANDS

A command of 'A' allows input of Aircraft Commands. First the ID code for the CV to be affected is requested. A CV is designated by the first letter of its name: E,H,Y and M for the Midway airbase. For the purpose of the game Midway is considered a non-moving CV.

The Aircraft Commands are 'CA' to adjust Combat Air Patrol (CAP), 'CL' to Clear CV decks, 'A' to arm and spot a strike and 'L' to launch a strike.

CAP

CAP are fighters (VF) on Combat Air Patrol. The 'CA' command adjusts the number of fighters assigned to CAP. CAP remains designated overnight (they are presumed to land at dusk and launch at dawn). When CAP is increased, fighters are taken from those below decks. If no fighters are below decks CAP is taken from an arming strike, if available. If more CAP is requested than the CV has fighters, all available fighters on board are assigned to CAP. When CAP is decreased, the excess fighters are sent below and must be armed before they can participate in a strike.

STRIKES

A strike is a group of aircraft which is or will be sent out to attack an enemy force. A strike must first be armed and spotted on deck for launch. This is done with the 'A' command.

The number of each type of aircraft to spot is requested. If more aircraft are ordered spotted than the CV has below decks, all available aircraft of that type are spotted, except that fighters will not automatically be pulled off of CAP to be spotted for a strike. For example, if a CV had 10 fighters on CAP and 5 below decks, and 20 were ordered spotted, only 5 would be spotted. At least one tactical turn must elapse between spotting and

launching. During this period the CV is more vulnerable to damage if hit.

To launch a strike, there must be a spotted enemy target in range (200 nm for the US, 235 nm for the Japanese) and the strike may neither attack nor land at night (1900-0400). A strike may be spotted at night and left spotted for as long as desired. The 'L' command results in a contact report and a prompt for a selection by the user of which contact to strike. Enter the contact number of the enemy force to attack and press the carriage return.

Sometimes it is desired to disarm and move below a spotted strike. To do this the 'CL' command is used. Once a strike has been ordered spotted, to change the composition it must first be cleared and then respooned. This requires no additional game time except that the respooned strike must wait at least one tactical turn before taking off (as usual).

NOTES

ATARI

The Atari keeps the map and status displayed on the screen continuously. There are three numbers on the screen under each Task Force. These numbers are the course, horizontal and vertical position.

COMMODORE

An 'N' must be entered prior to pressing the CARRIAGE RETURN key to cause the computer to conduct one tactical turn.

IBM-PC

To the right of the map is displayed the task force (TF) number, course and position.

During Aircraft commands, if you want to spot all of the available aircraft on the CV, type 'A' instead of a number.

TRS-80 Color

In addition to the above Fleet Commands, the Color computer has two additional commands.

R-Range: allows the player to determine the range between units on the map.

Q-Quit: ends game and displays a summary of that Game.

During Aircraft Command mode if you want to spot all of the available aircraft on the CV, you can type 'AA' and press the ENTER key.

SINCLAIR

The aircraft commands have been changed to the following single letters: C-CAP, R-Clear Deck, A-Arm strike, and L-Launch strike.

The program runs in the fast mode except when a US or Japanese strike attacks. Even in the fast mode the computer can take 30 seconds for each tactical turn. The computer loops through tactical turns until time runs out or a significant event takes place. Therefore be patient and wait since the computer may take up to 5 minutes before returning to the fleet command mode.

When a map is displayed, it is possible that each visible task force may not be displayed. This occurs when two or more task forces occupy the same area on the map. In the status mode the location of the planes on each carrier are indicated by the abbreviations C, S, and B which stand for Cap, Spotted, and Below deck respectively. When a US carrier has been spotted it is indicated by an "****" in the SEEN row.

When a strike attacks a task force the computer will automatically switch to the slow mode and display the attack as it proceeds. Individual hits and misses are not shown, just a summary. After the attack is finished the computer waits until the ENTER key is pressed before it continues.

AIRCRAFT OPERATIONS

There are three types of aircraft in the game. Fighters, or VF, shoot down other aircraft. US fighters are F4F's, Japanese-Zekes.

Dive bombers, or VB, very accurately deliver bombs by diving. US-SBD's, Japanese-Vals.

Torpedo bombers, VT, use torpedoes or bomb horizontally. They don't get near misses on ships. US-TBD's, Japanese-Kates.

For the US, each CV puts up its own strike of VB and VT with VF as escorts. For the Japanese all planes put up by the carrier group are organized into one strike. A CV may only arm one strike at a time but may have more than one airborne. The range of a strike is fixed and no suicide missions are allowed. Once a strike is launched it is completely handled by the computer. The player can only sit back and enjoy (or cringe in horror) as the strike conducts its attack.

Once a strike is airborne there is a possibility that each type of aircraft may miss the target. Upon arrival at the target, any CAP over the target will attack. The CAP choose one of two types, VB or VT, to attack. Escorting VF will defend one of the two types. Thus CAP could attack the VT while VF defend the VB, resulting in unfortunate consequences for the VT. If the escorts do defend the attacked type, they reduce but do not prevent losses. They also counter-attack the CAP and are counter-attacked in turn.

After the CAP has done its worst, task force anti-aircraft (AA) fires at each type of attacking aircraft. Finally the strike conducts an attack on shipping in the order.VT then VB. If there are more than one target CV, the attackers will be divided evenly between them. A presentation of individual results (HIT!, MISS, NEAR MISS) occurs followed by a hit summary. Damage is immediately inflicted. AA fires again as the strike leaves.

If a force without a carrier is attacked, hits and near misses are scored in victory points instead of damage.

The strike returns to the CV which launched it. When it lands it causes an automatic clearing of the decks of that CV. Thus, if there is a strike spotted on Hornet and a strike lands on Hornet, Hornet will no longer have a strike spotted. Landed aircraft are taken below but may be immediately respotted.

If the CV which launched the strike is unable to operate aircraft when the strike returns, it will attempt to divert to an operable CV. This is the only way aircraft can be transferred from CV to CV. The success of the diversion depends on the range between primary and alternate CV's.

If a task force with more than one CV is attacked, the CAP's of all CV's present are totalled to defend and then evenly distributed before damage is assessed. CAP is not affected by other air operations or nightfall. They are assumed to be kept airborne, rotating to refuel, during the day, land just before nightfall and launch before dawn. CAP only attacks one of the two types of bomber aircraft in a strike attack. The more CAP, the more aircraft will be downed.

The aircraft totals for Midway are less than the historical total. This adjusts for the obsolescence of many of the aircraft assigned to Midway. B-17's are not included as they were completely ineffective in the battle. Search for the US player is done by PBY flying boats based at Midway. These aircraft are 'invisible' in the game and may not be destroyed or attacked.

JAPANESE OPERATIONS

The Japanese have three task forces: a carrier group, a transport group and a cruiser group. The carrier group approaches from the northwest, and the other two from the

west, although the possible spread of courses overlaps a bit. Each time damage is inflicted some of the aircraft spotted or below on the damaged CV are destroyed.

The amount of damage a CV has received affects aircraft operations and victory points. Damage is divided into categories of None, Light, Heavy and SUNK or (for Midway) DESTROYED. A CV with no damage or light damage is fully operational. A CV with heavy damage is unable to operate aircraft. Immediately upon reaching the heavy damage condition, all aircraft belonging to the affected CV, including CAP, are sent below. No aircraft operations are permitted on the CV. A sunk CV loses all aircraft on board including CAP.

Each turn every damaged CV attempts to repair itself. In general somewhat less than one near miss worth of damage is repaired per turn. In addition, explosions may occur which cause further damage. In general US CV's repair damage faster and suffer fewer explosions than the Japanese. It is possible for repair parties to reduce damage to the point where a CV which had heavy damage can again operate aircraft. Sunken ships and destroyed airbases cannot be repaired.

The non-carrier groups proceed directly to Midway and stop there. The carrier group heads towards Midway and will steam back and forth in strike range of same unless a US task force with a carrier is spotted. In that case, it will head directly for the spotted TF, with TF-16 preferred if both are spotted. Should all four Japanese CV's be incapable of air operations, the Japanese will panic and flee the field. All forces will head 270 at full speed. (All TF speeds, including US, are 25 knots except the transport group, which is 18 knots.)

The Japanese put up a minimum CAP of five fighters per CV. They arm half their aircraft if within 250 nm of Midway and all aircraft if a US CV is spotted. They launch strikes with the following priorities:

1. TF's with operating CV's, in the order: TF-16, TF-17, Midway.
2. TF's with inoperable floating CV's in the same order.
3. The island of Midway.

Strikes are only launched if range and daylight restrictions are met and the target is spotted.

The invasion of Midway is assumed to succeed unless the US incapacitates all four Japanese CV's.

SEARCH

Search is conducted by PBY flying boats based at Midway and float planes from Japanese cruisers. Search is independent of combat results and ranges. There is a probability of being spotted by search forces for both sides for every tactical turn in daylight. This probability is higher than normal for an hour around noon and, for the US player only, for an hour after dawn. The US player has an advantage in search.

There are three conditions of being spotted. The first is not being spotted. For US forces the second is spotted but not told they are spotted and the third is spotted and told. For Japanese forces, the second is spotted and the third is spotted and type of force known.

When spotted, forces are placed in the second condition and advanced to the third either immediately or some time later.

Midway is always considered spotted in the third condition. When a strike attacks both the launching force and the attacked force are spotted in the third condition. Once spotted, a force remains spotted until nightfall (1900). At nightfall all forces except Midway are 'unspotted'. Spottings are reported as they occur and in the contact report associated with the map and status report.

DAMAGE AND DAMAGE CONTROL

Damage is only a factor for CV's and the Midway airbase. Damage is inflicted by the hits and near misses of bomber type aircraft. Each near miss has about half the effect of a hit, although the actual amount of damage per hit is random. Having a strike spotted when hit, doubles the effect of each hit. On Midway, since it is an island airfield and not a ship, hits cause half the normal effect. Damage may also be inflicted by the subsequent explosion.

END OF GAME AND VICTORY CONDITIONS

The following conditions are considered end of game:

- All Japanese CV's sunk.
- or All US CV's sunk.
- or Any Japanese TF heading 270 goes off the map to the west (left).
- or Any US TF heading 000-090-180 goes off the map to the east (right).
- AND No strike is airborne.

At the end of the game a summary of CV damage, aircraft losses, victory points from non-CV targets and the status of the Midway invasion is output, followed by an evaluation of results. In general, a sunk CV is worth 200 aircraft, a damaged one much less. Midway is worth two CV's, one for the island and one for the airbase. In general each level of victory differs by about a CV. In the actual battle the US won a strategic victory.

EXAMPLES OF PLAY

This section gives some examples that will be useful for the computer game beginner. An important thing to keep in mind is that the computer expects the player to input his commands in a very precise format and terminate them by pressing the "ENTER" (or "RETURN") key. The computer is very literal-minded and can't make guesses about what was REALLY meant! (Note that there will be some very minor differences between the versions for the different computers, but all versions are very nearly identical.)

A command that will be given often is to change the course of one of the task forces (TF-16 or TF-17) to a new heading. This is accomplished by the following sequence:

FLEET COMMAND? (Computer puts this on the screen.)

T [ENTER] (Player types.)

WHICH TASK FORCE? (Computer.)

16 [ENTER] (Player.)

NEW COURSE? (Computer.)

225 [ENTER] (Player.)

TF-16 ON COURSE 225T (Computer.)

Another useful command is arming an air strike on an aircraft carrier. Suppose the player wishes to arm a strike of 10 F4F's, 25 SBD's, and 8 TBD's on the carrier Hornet. The following sequence will accomplish this:

FLEET COMMAND? (Computer.)

A [ENTER] (Player. Enters air commands.)

CARRIER? (Computer.)

H [ENTER] (Player. Short for "Hornet".)

AIRCRAFT COMMAND? (Computer.)

A [ENTER] (Player. Short for "Arm Strike".)

NUMBER OF F4F'S, SBD's, TBD's TO SPOT?

(Computer.)

10,25,8 [ENTER] (Player.)

HORNET STRIKE ARMING. (Computer.)

CARRIER? (Computer.)

[ENTER] (Player. No name returns to fleet commands.) ('N' RETURN for PET)

FLEET COMMAND? (Computer.)

While entering commands may seem difficult at first, a little experience will make entering them almost second nature. Note that the computer won't let you do anything against the rules, so don't worry about that! One trick you can use to save time when arming strikes or sending up CAP is to specify a very large number of planes (like 99) when you want to specify the maximum of any type; the computer will automatically adjust your input to the number of planes actually available.

CASSETTE LOADING INSTRUCTIONS

ATARI 400/800

Lift the cartridge door on your ATARI 400/800 computer and insert the COMPUTING LANGUAGE BASIC cartridge into the computer. Use the LEFT CARTRIDGE slot on the ATARI 800 system.

Press the POWER switch on the side of the console ON. With SIDE ONE of the cassette up, put it into your ATARI CASSETTE RECORDER and press 'REWIND' until the tape stops moving. Using the keyboard, type:

CLOAD

Then press the 'RETURN' key on the keyboard. You will hear one beep. Push 'PLAY' on the recorder and press the 'RETURN' key on the keyboard again. The recorder should start to move and the program will be loaded. By turning up the volume on your video screen you can hear the program being loaded. When the tape stops, the program has been transferred from the cassette tape to the computer. 'READY' will be displayed on the screen. Type: 'RUN' and press the 'RETURN' key to play the game. Should your video screen display the word ERROR, press the RESET button at the top righthand corner of the keyboard and repeat all of the above loading instructions.

TRS-80 Color

The TRS-80 Color Computer program is located after the Atari program on side one. By listening to the tape, you can tell the difference between the two programs:

1. Type PCLEAR1 [ENTER]

2. Press the play button on the the cassette player.

3. Type CLOAD [ENTER]

4. When the tape stops and the ready prompt appears, type RUN [ENTER] to play the game.

COMMODORE 64

Turn the tape over so SIDE TWO is up. Insert the tape in your recorder and rewind to the beginning of the tape. When ready, type:

LOAD

and press the 'RETURN' button on the keyboard, then the 'PLAY' button on the recorder. The tape should start moving. When it locates the program, Found Midway will

be displayed on the screen. Press the Commodore Key (C =) and the program will start loading. This program is not short, and will take several minutes to load. When done, the computer will print 'READY', and the tape will stop. Type:

RUN

and press 'RETURN' to play the game.

COMMODORE VIC-20

The VIC-20 program is located after the Commodore 64 program at about 107 on the recorder counter.

Type LOAD "VIC" and press the RETURN key. The program will start loading. This program is not short, and will take several minutes to load. When it has loaded and the READY prompt reappears type RUN and press the RETURN key.

TIMEX/SINCLAIR

The Sinclair program is located after the two Commodore programs at about 200 on the recorder counter. By listening to the tape, you can tell the difference between the programs.

Once you have found the beginning of the Sinclair program turn on the computer. Ensure that the 'K' cursor is on your TV screen.

Press the 'J' key on the computer keyboard. 'LOAD' should be displayed on the TV screen. Now type "MIDWAY".

The following should be displayed on the TV screen:

LOAD "MIDWAY"

Now start the cassette recorder, and then press ENTER. After about 7 minutes the program will be loaded and the display will show a title page.

DISK LOADING INSTRUCTIONS

IBM

BOOT the IBM System disk. Enter the date as prescribed in the IBM DOS manual.

When 'A' prompt appears type BASIC [ENTER].

When 'OK' and the flashing '-' is displayed type RUN "MIDWAY" and press the ENTER key. The program will load and run automatically.

APPLE DISK/ATARI DISK

Put the game disk into the disk drive and boot the disk. The program will load and play will begin automatically.

YOU NAME IT, WE'VE GOT A GAME ON IT . . .

The Avalon Hill Game Company is the world's largest publisher of a great variety of strategy board games of skill. We manufacture over 150 games; including wargames, sports strategy and statistical replay games, games of power politics, adventure and role-playing games, as well as fantasy and science fiction games. For complete information with pretty pictures, write the factory and ask for a *Complete Game Catalog*. Consult parts list for current price.

The Avalon Hill Game Company

Consumer Relations

4517 Harford Road, Baltimore, MD 21214

QUESTIONS ON PLAY

The clarity of these rules has been verified by *Software Testers of Universal Microcomputer Programmers (STUMP)* and deemed "complete" in all facets of instruction. Please re-read them in areas that seem unclear at first reading. Questions on play can be answered by the factory *only* upon receipt of a self-addressed envelope bearing first-class postage.

IF YOU CANNOT LOAD THE PROGRAM

1. Check your equipment carefully to be sure that all cables and connections are correct.

2. Re-read the section in your computer's manual that tells you how to load software. Try to load software again.

3. If you can adjust the volume on your recorder, try different settings, both higher and lower.

4. If possible, load another program from a tape or disk you know works on your computer. This will prove that your equipment works. Try once more to load your game.

5. The normal reason software will not load is tape recorder or disk drive head misalignment. Your computer may be able to save and load programs on its own recorder, but be unable to read software made on a different recorder for this reason. Be sure your recorder heads are correctly aligned. Your local computer store or dealer can help you with this.

6. If the program still cannot be loaded, send the software, with a complete description of the problem (what type of computer you have, what the computer says, if anything, when you try to load the software or play the game, and what you did to try to get it to load) to:

Avalon Hill Microcomputer Games

4517 Harford Road
Baltimore, Maryland 21214

Defective software will be replaced.

UNAUTHORIZED REPRODUCTION OF THIS GAME IN ANY FORM IS SPECIFICALLY PROHIBITED. WE CONSIDER ANY VIOLATION OF THIS REQUEST DETRIMENTAL TO OUR LEGAL RIGHT TO EXIST IN A COMPETITIVE BUSINESS ENVIRONMENT.

CREDITS

Game Design for Apple, TRS-80 and PET versions: National Microcomputer Associates

IBM-PC version: Randall Rice

TRS-80 Color version: Chuck Brite

Timex/Sinclair 1000 version: Rodney Rowen

Commodore VIC-20 version: Mark E. Heinemann

Commodore 64 Development: Si Yong Yi

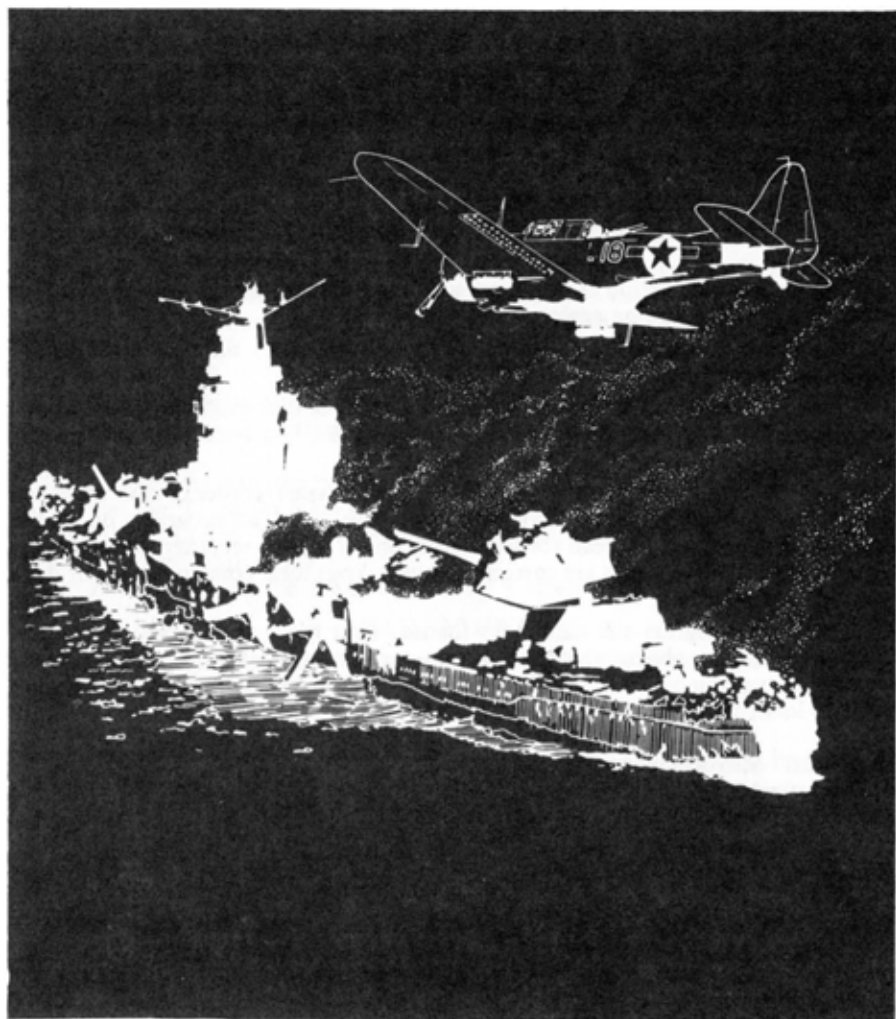
Production Coordinator: Phyllis Suddeth

Package Design: Bob Haynes

Prep. Dept. Coordinator: Elaine M. Adkins

Typesetting: Colonial Composition

Production: Monarch Services, Inc.



©1983 The Avalon Hill Game Company All Rights Reserved
Computer Program and Audio Visual Display Copyrighted

©1983 The Avalon Hill Game Co., Baltimore, MD 21214, Printed in USA



microcomputer games[®]

A Division of The AVALON HILL Game Co.

4010201
W-2279
6/83

MIDWAY

TURNING POINT IN THE
WAR IN THE PACIFIC

◆◆ MIDWAY CAMPAIGN ◆◆

COPYRIGHT 1983 BY
AVALON HILL
MICROCOMPUTER GAMES

COLOR COMPUTER ADAPTATION BY
CHUCK BRITE

-- ENTER YOUR LAST NAME --
NAME: MOBYGAMES

0700
6/4/42

TF-16
CRS 90

TF-17
CRS 90

0
270+090
180



CONTACT 1 AT 9,9 CV'S
CONTACT 2 AT 6,4 TRANSPORTS
CONTACT 3 AT 7,6
FLEET COMMAND? (T, S, A, R, M, 0, #)

STATUS REPORT AS OF 0700 6/4/42

CAP ARMED BELOW DECKS

--- --- -----
CV F4F F4F SBD TBD F4F SBD TBD
ENT 0 0 0 0 9 14 2
HOR 0 0 0 0 12 22 3
YOR 15 4 24 12 0 0 0
MID 14 0 14 10 0 0 0

ENTERPRISE HVY DAMAGE SPOTTED
HORNET HVY DAMAGE SPOTTED
YORKTOWN NO DAMAGE SPOTTED
MIDWAY NO DAMAGE

CONTACT 1 AT 9,9 CV'S
CONTACT 2 AT 6,4 TRANSPORTS
CONTACT 3 AT 7,6

FLEET COMMAND? (T, S, A, R, M, 0, #)

YORKTOWN STRIKE ATTACKS CV'S!

ON THE WAY IN,

CV'S AA SHOOT'S DOWN 0 SBD'S.

8 SBD'S ATTACK HIRYU.

NEAR MISS HIT NEAR MISS HIT HIT

HIRYU TAKES 3 HITS

AND 2 NEAR MISSES.

HIRYU BLOWS UP AND SINKS!

MIDWAY STRIKE ATTACKS

TRANSPORTS!

ON THE WAY IN,

TRANP'S AA SHOOTS DOWN 0 SBD'S.

TRANP'S AA SHOOTS DOWN 0 TBD'S.

14 SBD'S ATTACK TRANSPORTS!

**NEAR MISS HIT HIT HIT NEAR MISS
HIT**

SBD'S MAKE 4 HITS

AND 2 NEAR MISSES.

24 VICTORY POINTS AWARDED.

10 TBD'S ATTACK TRANSPORTS!

HIT HIT HIT

TBD'S MAKE 3 HITS.

15 VICTORY POINTS AWARDED.

THE GAME IS OVER!!!

CARRIER	DAMAGE STATUS
AKAGI	SUNK
KAGA	SUNK
SORYU	SUNK
HIRYU	SUNK
ENTERPRISE	HVY
HORNET	LGT
YORKTOWN	NONE
MIDWAY (NOT INVADED)	NONE
AIRCRAFT LOST:	US: 159 J: 272
OTHER VICTORY PTS:	US: 71 J: 0
TOTALS:	US: 5431 J: 1195
US STRATEGIC VICTORY.	
MEDAL OF HONOR-AGAIN? (Y/N)?	