Hiry? (?? , " Flying Dragon ") was an aircraft carrier built for the Imperial Japanese Navy (IJN) during the 1930s . The only ship of her class , she was built to a modified S?ry? design . Her aircraft supported the Japanese invasion of French Indochina in mid @-@ 1940 . During the first month of the Pacific War , she took part in the attack on Pearl Harbor and the Battle of Wake Island . The ship supported the conquest of the Dutch East Indies in January 1942 . The following month , her aircraft bombed Darwin , Australia , and continued to assist in the Dutch East Indies campaign . In April , Hiry? 's aircraft helped sink two British heavy cruisers and several merchant ships during the Indian Ocean raid .

After a brief refit , Hiry? and three other fleet carriers of the First Air Fleet (Kido Butai) participated in the Battle of Midway in June 1942 . After bombarding American forces on the atoll , the carriers were attacked by aircraft from Midway and the carriers USS Enterprise , Hornet , and Yorktown . Dive bombers from Yorktown and Enterprise crippled Hiry? and set her afire . She was scuttled the following day after it became clear that she could not be salvaged . The loss of Hiry? and three other IJN carriers at Midway was a crucial strategic defeat for Japan and contributed significantly to the Allies ' ultimate victory in the Pacific .

= = Design = =

Hiry? was one of two large carriers approved for construction under the 1931 ? 32 Supplementary Program . Originally designed as the sister ship of S?ry? , her design was enlarged and modified in light of the Tomozuru and Fourth Fleet Incidents in 1934 ? 35 that revealed many IJN ships were top @-@ heavy , unstable and structurally weak . Her forecastle was raised and her hull strengthened . Other changes involved increasing her beam , displacement , and armor protection .

The ship had a length of 227 @.@ 4 meters (746 ft 1 in) overall , a beam of 22 @.@ 3 meters (73 ft 2 in) and a draft of 7 @.@ 8 meters (25 ft 7 in) . She displaced 17 @,@ 600 metric tons (17 @,@ 300 long tons) at standard load and 20 @,@ 570 metric tons (20 @,@ 250 long tons) at normal load . Her crew consisted of 1 @,@ 100 officers and enlisted men .

= = = Machinery = = =

Hiry? was fitted with four geared steam turbine sets with a total of 153 @,@ 000 shaft horsepower (114 @,@ 000 kW) , each driving one propeller shaft , using steam provided by eight Kampon water @-@ tube boilers . The turbines and boilers were the same as those used in the Mogami @-@ class cruisers . The ship 's power and slim , cruiser @-@ type hull with a length @-@ to @-@ beam ratio of 10 : 1 gave her a speed of 34 @.@ 3 knots (63 @.@ 5 km / h ; 39 @.@ 5 mph) and made her the fastest carrier in the world at the time of her commissioning . Hiry? carried 4 @,@ 500 metric tons (4 @,@ 400 long tons) of fuel oil which gave her a range of 10 @,@ 330 nautical miles (19 @,@ 130 km ; 11 @,@ 890 mi) at 18 knots (33 km / h ; 21 mph) . The boiler uptakes were trunked to the ship 's starboard side amidships and exhausted just below flight deck level through two funnels curved downward .

= = = Flight deck and hangars = = =

The carrier 's 216 @.@ 9 @-@ meter (711 ft 7 in) flight deck was 27 @.@ 0 meters (88 ft 6 in) wide and overhung her superstructure at both ends , supported by pairs of pillars . Hiry? was one of only two carriers ever built whose island was on the port side of the ship (Akagi was the other) . It was also positioned further to the rear and encroached on the width of the flight deck , unlike S?ry? . Nine transverse arrestor wires were installed on the flight deck that could stop a 6 @,@ 000 @-@ kilogram (13 @,@ 000 lb) aircraft . One group of three wires was positioned further forward to allow the ship to land aircraft over the bow , although this was never done in practice . The flight deck was only 12 @.@ 8 meters (42 ft) above the waterline and the ship 's designers kept this

figure low by reducing the height of the hangars . The upper hangar was 171 @.@ 3 by 18 @.@ 3 meters (562 by 60 ft) and had an approximate height of 4 @.@ 6 meters (15 ft) ; the lower was 142 @.@ 3 by 18 @.@ 3 meters (467 by 60 ft) and had an approximate height of 4 @.@ 3 meters (14 ft) . Together they had an approximate total area of 5 @,@ 736 square meters (61 @,@ 740 sq ft) . This caused problems in handling aircraft because the wings of a Nakajima B5N " Kate " torpedo bomber could neither be spread nor folded in the upper hangar .

Aircraft were transported between the hangars and the flight deck by three elevators , the forward one abreast the island on the centerline and the other two offset to starboard . The forward platform measured 16 @.@ 0 by 13 @.@ 0 meters (52 @.@ 5 ft × 42 @.@ 75 ft) , the middle one 13 @.@ 0 by 12 @.@ 0 meters (42 @.@ 75 ft × 39 @.@ 3 ft) , and the rear 11 @.@ 8 by 13 @.@ 0 meters (38 @.@ 7 ft × 42 @.@ 8 ft) . They were capable of transferring aircraft weighing up to 5 @,@ 000 kilograms (11 @,@ 000 lb) . Hiry? had a designed aircraft capacity of 64 , plus nine spares .

= = = Armament = =

Hiry? 's primary anti @-@ aircraft (AA) armament consisted of six twin @-@ gun mounts equipped with 40 @-@ caliber 12 @.@ 7 @-@ centimeter Type 89 dual @-@ purpose guns mounted on projecting sponsons , three on either side of the carrier 's hull . When firing at surface targets , the guns had a range of 14 @,@ 700 meters (16 @,@ 100 yd) ; they had a maximum ceiling of 9 @,@ 440 meters (30 @,@ 970 ft) at their maximum elevation of + 90 degrees . Their maximum rate of fire was 14 rounds a minute , but their sustained rate of fire was approximately eight rounds per minute . The ship was equipped with two Type 94 fire @-@ control directors to control the 12 @.@ 7 @-@ centimeter (5 @.@ 0 in) guns , one for each side of the ship ; the starboard @-@ side director was on top of the island and the other director was positioned below flight deck level on the port side .

The ship 's light AA armament consisted of seven triple and five twin @-@ gun mounts for license @-@ built Hotchkiss 25 mm Type 96 AA guns . Two of the triple mounts were sited on a platform just below the forward end of the flight deck . The gun was the standard Japanese light AA gun during World War II , but it suffered from severe design shortcomings that rendered it largely ineffective . According to historian Mark Stille , the weapon had many faults including an inability to "handle high @-@ speed targets because it could not be trained or elevated fast enough by either hand or power , its sights were inadequate for high @-@ speed targets , it possessed excessive vibration and muzzle blast , and its magazines were too small to maintain high rates of fire " . These 25 @-@ millimeter (1 in) guns had an effective range of 1 @,@ 500 ? 3 @,@ 000 meters (1 @,@ 600 ? 3 @,@ 300 yd) , and an effective ceiling of 5 @,@ 500 meters (18 @,@ 000 ft) at an elevation of + 85 degrees . The maximum effective rate of fire was only between 110 and 120 rounds per minute because of the frequent need to change the fifteen @-@ round magazines . The Type 96 guns were controlled by five Type 95 directors , two on each side and one in the bow .

= = = Armor = = =

Hiry? had a waterline belt with a maximum thickness of 150 millimeters (5 @.@ 9 in) over the magazines that reduced to 90 millimeters (3 @.@ 5 in) over the machinery spaces and the avgas storage tanks . It was backed by an internal anti @-@ splinter bulkhead . The ship 's deck was 25 millimeters (0 @.@ 98 in) thick over the machinery spaces and 55 millimeters (2 @.@ 2 in) thick over the magazines and avgas storage tanks .

= = Construction and service = =

Following the Japanese ship @-@ naming conventions for aircraft carriers, Hiry? was named "Flying Dragon". The ship was laid down at the Yokosuka Naval Arsenal on 8 July 1936, launched on 16 November 1937 and commissioned on 5 July 1939. She was assigned to the Second Carrier

Division on 15 November . In September 1940 , the ship 's air group was transferred to Hainan Island to support the Japanese invasion of French Indochina . In February 1941 , Hiry? supported the blockade of Southern China . Two months later , the 2nd Carrier Division , commanded by Rear Admiral Tamon Yamaguchi , was assigned to the First Air Fleet , or Kido Butai , on 10 April . Hiry? returned to Japan on 7 August and began a short refit that was completed on 15 September . She became flagship of the Second Division from 22 September to 26 October while S?ry? was refitting .

= = = Pearl Harbor and subsequent operations = = =

In November 1941 , the IJN 's Combined Fleet , commanded by Admiral Isoroku Yamamoto , prepared to participate in Japan 's initiation of a formal war with the United States by conducting a preemptive strike against the United States Navy 's Pacific Fleet base at Pearl Harbor , Hawaii . On 22 November , Hiry? , commanded by Captain Tomeo Kaku , and the rest of the Kido Butai , under Vice Admiral Chuichi Nagumo and including six fleet carriers from the First , Second , and Fifth Carrier Divisions , assembled in Hitokappu Bay at Etorofu Island . The fleet departed Etorofu on 26 November and followed a course across the north @-@ central Pacific to avoid commercial shipping lanes . Now the flagship of the Second Carrier Division , the ship embarked 21 Mitsubishi A6M Zero fighters , 18 Aichi D3A " Val " dive bombers , and 18 Nakajima B5N " Kate " torpedo bombers . From a position 230 nmi (430 km ; 260 mi) north of Oahu , Hiry? and the other five carriers launched two waves of aircraft on the morning of 7 December 1941 Hawaiian time .

In the first wave , 8 B5N torpedo bombers were supposed to attack the aircraft carriers that normally berthed on the northwest side of Ford Island , but none were in Pearl Harbor that day ; 4 of the B5N pilots diverted to their secondary target , ships berthed alongside " 1010 Pier " where the fleet flagship was usually moored . That ship , the battleship Pennsylvania , was in drydock and its position was occupied by the light cruiser Helena and the minelayer Oglala ; all four torpedoes missed . The other four pilots attacked the battleships West Virginia and Oklahoma . The remaining 10 B5Ns were tasked to drop 800 @-@ kilogram (1 @,@ 800 lb) armor @-@ piercing bombs on the battleships berthed on the southeast side of Ford Island (" Battleship Row ") and may have scored one or two hits on them , in addition to causing a magazine explosion aboard the battleship Arizona that sank her with heavy loss of life . The 6 A6M Zeros strafed parked aircraft at Marine Corps Air Station Ewa (MCAS Ewa) , claiming 22 aircraft destroyed .

The second wave consisted of 9 Zeros and 18 D3As , one of each aborting with mechanical problems . The former strafed Naval Air Station Kaneohe Bay before moving on to attack Bellows Army Airfield . They strafed the airfield , and shot down two Curtiss P @-@ 40 fighters attempting to take off when the Zeros arrived and a Boeing B @-@ 17 Flying Fortress heavy bomber that had earlier diverted from Hickam Army Airfield , and also destroyed a Stinson O @-@ 49 observation aircraft on the ground for the loss of one of their own . The fighters with remaining ammunition expended it strafing MCAS Ewa , the rendezvous point for the second @-@ wave fighters . The D3As attacked various ships in Pearl Harbor , but it is not possible to identify which aircraft attacked which ship . Two D3As from Hiry? were lost during the attack , one shot down by Second Lieutenant George Welch .

While returning to Japan after the attack , Vice Admiral Ch?ichi Nagumo , commander of the First Air Fleet , ordered that S?ry? and Hiry? be detached on 16 December to attack the defenders of Wake Island who had already defeated the first Japanese attack on the island . The two carriers reached the vicinity of the island on 21 December and launched 29 D3As and 2 B5Ns , escorted by 18 Zeros , to attack ground targets . They encountered no aerial opposition and launched 35 B5Ns and 6 A6M Zeros the following day . They were intercepted by the 2 surviving Grumman F4F Wildcat fighters of Marine Fighter Squadron VMF @-@ 211 . The Wildcats shot down 2 B5Ns before they were shot down by PO3c Isao Towara . The garrison surrendered the next day after Japanese troops were landed .

The carriers arrived at Kure on 29 December . They were assigned to the Southern Force on 8 January 1942 and departed four days later for the Dutch East Indies . The ships supported the

invasion of the Palau Islands and the Battle of Ambon , attacking Allied positions on the island on 23 January with 54 aircraft . Four days later the carriers detached 18 Zeros and 9 D3As to operate from land bases in support of Japanese operations in the Battle of Borneo . Hiry? and S?ry? arrived at Palau on 28 January and waited for the arrival of the carriers Kaga and Akagi . All four carriers departed Palau on 15 February and launched air strikes against Darwin , Australia , four days later . Hiry? contributed 18 B5Ns , 18 D3As , and 9 Zeros to the attack . Her aircraft attacked the ships in port and its facilities , sinking or setting on fire three ships and damaging two others . The Zeros destroyed 1 P @-@ 40E as it was taking off , 2 Consolidated PBY Catalina seaplanes on the water , and a Zero was forced to crash land after being damaged by a P @-@ 40E of the United States Army Air Forces (USAAF) 33rd Pursuit Squadron .

Hiry? and the other carriers arrived at Staring Bay on Celebes Island on 21 February to resupply and rest before departing four days later to support the invasion of Java . On 1 March 1942 , the ship 's D3As damaged the destroyer USS Edsall badly enough for her to be caught and sunk by Japanese cruisers . Later that day the dive bombers sank the oil tanker USS Pecos . The four carriers launched an airstrike of 180 aircraft against Tjilatjep on 5 March and set the town on fire , sinking five small ships , and damaging nine others that later had to be scuttled . Two days later , they attacked Christmas Island and Hiry? 's aircraft sank the Dutch freighter Poelau Bras before returning to Staring Bay on 11 March to resupply and train for the impending Indian Ocean raid . This raid was intended to secure newly conquered Burma , Malaya , and the Dutch East Indies against any Allied attack by destroying base facilities and forces in the eastern Indian Ocean .

= = = Indian Ocean raid = = =

On 26 March, the five carriers of the First Air Fleet departed from Staring Bay; they were spotted by a Catalina about 350 nautical miles (650 km; 400 mi) southeast of Ceylon on the morning of 4 April . Six of Hiry? 's Zeros were on Combat Air Patrol (CAP) and helped to shoot it down . Nagumo closed to within 120 nautical miles (220 km; 140 mi) of Colombo before launching an airstrike the next morning. Hiry? contributed 18 B3Ns and 9 Zeros to the force; the latter encountered a flight of 6 Fairey Swordfish torpedo bombers from 788 Naval Air Squadron en route and shot them all down without loss. The Japanese aircraft encountered defending Hawker Hurricane fighters from Nos. 30 and 258 Squadrons RAF over Ratmalana airfield and Hiry? 's fighters claimed to have shot down 11 with 3 Zeros damaged, although the fighters from the other carriers also made claims. British losses were 21 Hurricanes shot down and 2 more forced to crash land. The D3As and B3Ns inflicted some damage to the port facilities, but a day 's warning had allowed much of the shipping in the harbor to be evacuated. The British were attempting to find Nagumo 's ships all morning and Hiry? 's Zeros on CAP over the fleet helped to shoot down an RAF Catalina, shot down a Fairey Albacore torpedo bomber and drove off another from the carrier Indomitable. Later that morning the British heavy cruisers Cornwall and Dorsetshire were spotted and Hiry? launched 18 D3As. They sank both ships in combination with the dive bombers from the other carriers.

On the morning of 9 April , Hiry? 's CAP shot down another Catalina attempting to locate the fleet and , later that morning , contributed 18 B5Ns , escorted by 6 Zeros , to the attack on Trincomalee . The fighters engaged 261 Squadron RAF , claiming to have shot down two with two more shared with fighters from the other carriers . British losses were only eight fighters , but the Japanese pilots claimed a total of 49 aircraft shot down when the RAF only had 16 Hurricanes in the fight . The British pilots shot down one of Hiry? 's B5Ns and forced another to crash land while they were bombing the port . Meanwhile , a floatplane from the battleship Haruna spotted the small aircraft carrier Hermes , escorted by the destroyer HMAS Vampire , and every available D3A was launched to attack the ships , escorted by nine Zeros . Hiry? contributed 18 dive bombers and 3 fighters , but they arrived too late to assist in sinking them and found two other ships further north . They sank the freighter RFA Athelstone and her escorting corvette , Hollyhock . While this was going on , Akagi narrowly escaped damage when 9 British Bristol Blenheim bombers from Ceylon penetrated the CAP and dropped their bombs from 11 @,@ 000 feet (3 @,@ 400 m) . Hiry? had eight Zeros aloft

, along with 12 more from the other carriers , and collectively they accounted for 5 of the British bombers for the loss of 1 of Hiry? 's Zeros . The Blenheims ran into the D3As from Sh?kaku , escorted by Hiry? 's Zeros , on their way back home and lost one more bomber to the Japanese aircraft . The dive bombers claimed to have shot down two Blenheims in conjunction with the Zeros , which claimed one on their own , for the loss of one Zero shot down by the bombers 'gunners and one D3A damaged . After launching the dive bombers that sank Hermes and the other ships , the First Air Fleet reversed course and headed southeast for the Malacca Strait and Japan .

On 19 April , while transiting the Bashi Straits between Taiwan and Luzon en route to Japan , Hiry? , S?ry? , and Akagi were sent in pursuit of the American carriers Hornet and Enterprise , which had launched the Doolittle Raid against Tokyo . They found only empty ocean , as the American carriers had immediately departed the area to return to Hawaii . The carriers quickly abandoned the chase and dropped anchor at Hashirajima anchorage on 22 April . Having been engaged in constant operations for four and a half months , the ship , along with the other three carriers of the First and Second Carrier Divisions , was hurriedly refitted and replenished in preparation for the Combined Fleet 's next major operation , scheduled to begin one month hence . While at Hashirajima , Hiry? 's air group was based ashore at Tomitaka Airfield , near Saiki , ?ita , and conducted flight and weapons training with the other First Air Fleet carrier units .

= = = Midway = = =

Concerned by the US carrier strikes in the Marshall Islands , Lae @-@ Salamaua , and the Doolittle raids , Yamamoto was determined to force the US Navy into a showdown to eliminate the American carrier threat . He decided to invade and occupy Midway Atoll , which he was sure would draw out the American carriers to defend it . The Japanese codenamed the Midway invasion Operation MI . Unknown to the Japanese , the US Navy had divined the Japanese plan by breaking its JN @-@ 25 code and had prepared an ambush using its three available carriers , positioned northeast of Midway .

On 25 May 1942, Hiry? set out with the Combined Fleet 's carrier striking force in the company of Kaga, Akagi, and S?ry?, which constituted the First and Second Carrier Divisions, for the attack on Midway. Her aircraft complement consisted of 18 Zeros, 18 D3As, and 18 B5Ns. Also aboard were 3 A6Ms of the 6th K?k?tai intended as the aerial garrison for Midway. With the fleet positioned 250 nmi (460 km; 290 mi) northwest of Midway at dawn (04: 45 local time) on 4 June 1942, Hiry? 's portion of the 108 @-@ plane airstrike was an attack on the facilities on Sand Island with 18 torpedo bombers, 1 of which aborted with mechanical problems, escorted by nine Zeros. The air group suffered heavily during the attack: 2 B5Ns were shot down en route to the island, another was shot down by AA fire, 1 was forced to ditch on the trip back, another disappeared on the return trip and 5 were damaged beyond repair.

The carrier also contributed 3 Zeros to the total of 11 assigned to the initial CAP over the four carriers . By 07 : 05 , the carrier had 6 fighters with the CAP which helped to defend the Kido Butai from the first US attackers from Midway Island at 07 : 10 . At this time , Nagumo 's carriers were attacked by 6 US Navy Grumman TBF Avengers from Torpedo Squadron 8 (VT @-@ 8) and 4 USAAC Martin B @-@ 26 Marauders , all carrying torpedoes . The Avengers went after Hiry? while the Marauders attacked Akagi . The 30 CAP Zeros in the air at this time , including the 6 from Hiry? , immediately attacked the American airplanes , shooting down 5 of the Avengers and 2 of the B @-@ 26s . The Avengers shot down 1 of Hiry? 's Zeros . The surviving aircraft dropped their torpedoes , but all missed .

At 07:15, Nagumo ordered the B5Ns on Kaga and Akagi rearmed with bombs for another attack on Midway itself. This process was slowed by the number of ordnance carts used to handle the bombs and torpedoes and the limited number of ordnance elevators. This meant that the torpedoes could not be struck below until after all the bombs were moved up from their magazine, assembled and mounted on the aircraft. This process normally took about an hour and a half; more time would be required to bring the aircraft up to the flight deck, and to warm up and launch the strike group. Around 07:40, he reversed his order when he received a message from one of his scout aircraft

that American warships had been spotted . Depleted of ammunition , two of Hiry? 's CAP Zeros landed aboard the carrier at 07 : 40 .

At 07:55, the next American strike from Midway arrived in the form of 16 Marine Douglas SBD Dauntless dive bombers of Marine Scout Bomber Squadron (VMSB @-@ 241) under Major Lofton R. Henderson . Hiry? 's 3 CAP fighters were among the 9 still aloft that attacked Henderson 's planes , shooting down 6 of them as they executed a fruitless glide bombing attack on Hiry? . In return , the gunner of one the Dauntlesses shot down one of Hiry? 's Zeros . At roughly the same time , the Japanese carriers were attacked by 12 USAAC B @-@ 17s , bombing from 20 @,@ 000 feet (6 @,@ 100 m) . The high altitude of the B @-@ 17s gave the Japanese captains enough time to anticipate where the bombs would land , and they successfully maneuvered out of the impact area . Four B @-@ 17s attacked Hiry? , but missed with all their bombs .

Hiry? reinforced the CAP with launches of 3 more Zeros at 08: 25. These fresh Zeros helped defeat the next American air strike from Midway , 11 Vought SB2U Vindicator dive bombers from VMSB @-@ 241 , which attacked the battleship Haruna starting around 08: 30. Haruna escaped damage and 3 of the Vindicators were shot down . Although all the American air strikes had thus far caused negligible damage , they kept the Japanese carrier forces off @-@ balance as Nagumo endeavored to prepare a response to news , received at 08: 20 , of the sighting of American carrier forces to his northeast .

Hiry? began recovering her Midway strike force at around 09:00 and finished shortly by 09:10. The landed aircraft were quickly struck below, while the carriers 'crews began preparations to spot aircraft for the strike against the American carrier forces. The preparations were interrupted at 09:18, when the first attacking American carrier aircraft were sighted. These consisted of 15 Douglas TBD Devastator torpedo bombers of VT @-@ 8, led by Lieutenant Commander John C. Waldron from the Hornet. They attempted a torpedo attack on Sory?, but all of the American planes were shot down by the 18 CAP fighters, leaving one surviving aviator treading water.

Shortly afterwards , 14 Devastators from Torpedo Squadron 6 (VT @-@ 6) from Enterprise , led by Lieutenant Commander Eugene E. Lindsey , attacked . Lindsey 's aircraft tried to sandwich Kaga , but the CAP , reinforced by 4 additional Zeros launched by Hiry? at 09 : 37 , shot down all but 4 of the Devastators , and Kaga dodged the torpedoes . Hiry? launched another trio of CAP Zeros at 10 : 13 after Torpedo Squadron 3 (VT @-@ 3) from Yorktown was spotted . Two of her Zeros were shot down by Wildcats escorting VT @-@ 3 and another was forced to ditch .

While VT @-@ 3 was still attacking Hiry? , American dive bombers arrived over the Japanese carriers almost undetected and began their dives . It was at this time , around 10 : 20 , that in the words of Jonathan Parshall and Anthony Tully , the " Japanese air defenses would finally and catastrophically fail . " Three American dive bomber squadrons now attacked the three other carriers and set each of them on fire . Hiry? was untouched and proceeded to launch 18 D3As , escorted by 6 Zeros , at 10 : 54 and a second wave of 10 B5Ns , escorted by 6 Zeros , at 13 : 30 against the American carrier Yorktown . En route , the Zeros engaged a group of Enterprise 's Dauntlesses that they had spotted . They failed to shoot down any of the dive bombers , but two of the Zero were shot up by the bombers ' rear gunners , with one Zero forced to ditch near a destroyer . American radar detected the incoming Japanese dive bombers at 11 : 52 and vectored Yorktown 's CAP of 20 Wildcats against them . The Wildcats shot down three of the remaining Zeros for the loss of one of their own and engaged the D3As . Only seven of the dive bombers survived long enough to make their attack on Yorktown and two of those were shot down by flak during their dive , but they made three direct hits and two near misses that badly damaged the carrier and set her on fire .

The Americans had managed to extinguish her fires by 14:00 and Yorktown was making 19 knots (35 km / h; 22 mph) by 14:30 when the second group of Japanese aircraft launched from the Hiry? was approaching, low level torpedo bombers this time. They had been detected by the ship 's radar at 13:55, but the CAP was held back until they got closer. Six Wildcats were on CAP duty and four were vectored toward the attacking aircraft while the other two were retained to cover the takeoff of the 10 Wildcats fueling on deck. The Japanese were jumped at 14:38 by two Wildcats which shot down one torpedo bomber before they were both shot down by the escorting Zeros. Two Zeros were shot down later for the loss of one Wildcat. Two more B5Ns were shot down before they

could drop their torpedoes and three afterwards, but none of these aircraft hit the carrier. The last four torpedo bombers scored two hits (one B5N had its torpedo @-@ release gear fail) on Yorktown that damaged three boilers and knocked out all electrical power so that she could not pump fuel oil to starboard to counteract her six degree list to port. Seventeen minutes later, after the list increased to 23 degrees, the crew was ordered to abandon ship. Of the four Zeros and five B5Ns that returned to Hiry?, only one Zero and three dive bombers were still flight @-@ worthy.

Yamaguchi radioed his intention to Nagumo at 16: 30 to launch a third strike against the American carriers at dusk (approximately 18:00), but Nagumo ordered the fleet to withdraw to the west. Unbeknownst to the Japanese, Enterprise and Hornet had already launched airstrikes well before then. Enterprise launched a total of 26 Dauntlesses at 15: 25 using her own aircraft plus those from Yorktown that had been forced to recover aboard her after Yorktown was damaged, and Hornet launched 16 more of her own Dauntlesses at 16:00. At this point in the battle, Hiry? had only 4 air @-@ worthy dive @-@ bombers and 5 torpedo @-@ planes left . She also retained 19 of her own fighters on board as well as a further 13 Zeros on CAP (a composite force of survivors from the other carriers). At 16:45, Enterprise's dive bombers spotted the Japanese carrier and began to maneuver for good attacking position while reducing altitude. At 16:56, just as the first Dauntlesses were beginning their dives, Nagumo ordered a change in course to 120 degrees, possibly to prepare to recover his reconnaissance floatplanes, that threw off the aim of the leading SBDs. The Japanese did not even spot the Americans until 17:01. The CAP shot down two of the American aircraft in their dives and another after it was forced to abort its dive when some of Yorktown 's SBDs passed in front of it starting their own dives . Hiry? was struck by four 1 @,@ 000 @-@ pound (450 kg) bombs, three on the forward flight deck and one on the forward elevator. The explosions started fires among the aircraft on the hangar deck. The forward half of the flight deck collapsed into the hangar while part of the elevator was hurled against the ship 's bridge. The fires were severe enough that the remaining American aircraft attacked the other ships escorting Hiry?, albeit without effect, deeming further attacks on the carrier as a waste of time because she was aflame from stem to stern . Beginning at 17:42, two groups of B @-@ 17s attempted to attack the Japanese ships without success, although one bomber strafed Hiry? 's flight deck, killing several anti @-@ aircraft gunners.

Although Hiry? 's propulsion was not affected , the fires could not be brought under control . At 21: 23, her engines stopped , and at 23: 58 a major explosion rocked the ship . The order to abandon ship was given at 03: 15, and the survivors were taken off by the destroyers Kazagumo and Makigumo . Yamaguchi and Kaku decided to remain on board as Hiry? was torpedoed at 05: 10 by Makigumo as the ship could not be salvaged . One torpedo missed and the other struck near the bow without the typical plume of water , although the detonation was quite visible . Around 07: 00, one of H?sh? 's Yokosuka B4Y aircraft discovered Hiry? still afloat and not in any visible danger of sinking . The aviators could also see crewmen aboard the carrier , men who had not received word to abandon ship . They finally launched some of the carrier 's boats and abandoned ship themselves around 09: 00 . Thirty @-@ nine men made it into the ship 's cutter only moments before Hiry? sank around 09: 12, taking the bodies of 389 men with her . The cutter drifted for 14 days before being discovered by a Catalina and rescued by the seaplane tender USS Ballard . Four men died of their wounds or exposure before being picked up and a fifth died that night .

The loss of Hiry? and the three other IJN carriers at Midway, comprising two thirds of Japan 's total number of fleet carriers and the experienced core of the First Air Fleet, was a strategic defeat for Japan and contributed significantly to Japan 's ultimate defeat in the war. In an effort to conceal the defeat, the ship was not immediately removed from the Navy 's registry of ships, instead being listed as " unmanned " before finally being struck from the registry on 25 September 1942.

The IJN selected a modified version of the Hiry? design for mass production to replace the carriers lost at the Battle of Midway . Of a planned program of 16 ships of the Unry? class , only six were laid down and three were commissioned before the end of the war .