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A Brief History of the Grumman Albatross

In order to help alleviate confusion and provide an accurate overview and explanation of the somewhat confusing and often misunderstood history of the various models and history of the Grumman Albatross, I have assembled the following summary. This document may be freely distributed with the following caveats.

- It must be distributed exactly as it is, and must be distributed in its entirety, with the header and footer information intact and unchanged.
- No compensation of any kind may be received in exchange for this document or the information contained herein.

A total of 466 Albatross airframes were built. Of those, 2 were prototypes and the remaining 464 were production models.

Grumman Construction Numbers

The 464 production models were each assigned a Grumman construction number ranging from G001 to G464. This is the only identification number that can truly be used to identify a particular airframe without confusion throughout its service life. These serial numbers are often referred to as MSN – Manufacturer Serial Numbers. This number was stamped on a metal data plate that was fastened to the lower instrument panel near the co-pilot's left knee or sometimes on the right side wheel well locker area. When an aircraft underwent the Long wing



conversion a new data plate containing the new designations and serial number was installed either replacing the original or in addition to the original.

Grumman Design Numbers

Each airframe was also built under a specific Grumman Design number, that identified the configuration of the airplane. For consistency and to avoid confusion, when referring to a Design number I insert a hyphen between the G and the number (e.g. G-262) and for Construction numbers the hyphen is omitted (e.g. G262). The first 443 airplanes were initially built under the G-64 Design number and then those that were later modified fell under various other design numbers. The last 21 airplanes built were manufactured under design numbers G-191, G-231 and G-262. See *Appendix A* for a listing of these Design Numbers

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Basic Configurations

There are 2 basic configurations of the Albatross, the original short wing version (80'0" wingspan) which is quite often referred to simply as an A model and a long wing version (96'8" wingspan) which is commonly referred to as a B model. As you read through this document you will see where these designations came from, but also how often they are actually less than accurate.

The primary difference between a short wing and a long wing Albatross is obviously the wing span along with larger horizontal and vertical tail surfaces, however there are additional minor system differences including an integral gust lock system and a number of electrical system changes. See *Appendix B* for dimensional specifications of each model and

Military Serial numbers

Each US Military branch uses a different identification number system for aircraft.

- The USN uses the Bureau Number (Bu No) system which is simply a sequential number that begin
 with #1 for the first USN aircraft and continues today. The first USN Albatross BuNo was 124374
 and the last was 151265. For comparison, the most current USN aircraft being delivered that I
 could find was 169425 (a Lockheed F-35C Lightning).
- The USAF system is based on the year the contract for the aircraft was issued followed by a sequential number within that year (e.g. 49-097 was ordered in 1949 and was the 97th aircraft ordered in that year). USAF Albatross numbers range from 48-0588 to 52-0137. Note that this does not necessarily reflect the delivery date of the aircraft.
- The USCG uses a 4 digit numbering system that varies in its logic. Many of the USCG Albatrosses were either prior USAF aircraft or ordered by the USAF but delivered to the USCG. Generally the USCG used the last 4 digits of the USAF serial number as the new side no (i.e. 51-7255 became USCG 7255). Some USCG airframes were specifically ordered by and delivered to the USCG and had serial numbers assigned by the USCG presumably from a somewhat sequential list of other USCG aircraft.
- For a more detailed explanation of US military serial numbers visit http://www.joebaugher.com/

It is important to note that many Albatrosses were ordered by one service but delivered to another and many were transferred between services. Additionally, aircraft destined for foreign countries were often assigned a USAF or USN serial number for administrative purposes and may never have been operated by that service under that designation. Each foreign military used their own serial number system which can add tremendous confusion when trying to identify a specific airplane. See *Appendix E* for a summary of foreign Albatross operators.

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Military Model Numbers

All Albatrosses were built for military customers (primarily the US Navy, US Air Force and US Coast Guard, but also several foreign governments including Indonesia, Canada, West Germany and Japan) and therefore the military model numbers are the primary designations. At the time of the Albatrosses introduction each service used different model designations for a particular aircraft. In the case of the Albatross, they were designated as UF-1 by the Navy, SA-16A by the Air Force and UF-1G by the Coast Guard. Additionally the first 32 airplanes were initially ordered by the Navy as PF-1 but delivered to the USAF as SA-16A. In 1962, the Department of Defense instituted the *Tri-Service Aircraft Designation System* which standardized the model numbers of all Military aircraft. This system is covered in more detail later in this document under US DoD 1962 Re-designation. See *Appendix B* for a table of the various model numbers.

Model number and serial number confusion and inaccuracies

There are a multitude of inaccuracies that have been perpetuated in the civilian world with regards to Albatross model and serial numbers. Some of these have some basis in the history of the specific airplane (e.g. an aircraft that was operated by both the USN and USAF in its history would have been assigned both a USAF serial number and a USN BuNo and either may appear in FAA records, etc). Others are simply incorrect information that has have never been corrected.

Powerplants

The standard powerplant configuration for the Albatross was the Curtiss Wright R-1820-76 engine with a Hamilton Standard 43D50 propeller controlled via an Integral Oil Control Unit (IOC). This applied to all but 15 of the last 21 airplanes built. The RCAF CSR-110s were fitted with the Wright R-1820-82 engine and a Hamilton Standard 43D51 propeller also incorporating an IOC which was a very similar configuration to the Grumman S-2 Tracker. The West German airplanes received a commercial version of the R-1820-76 (1000C9) with the standard 43D50 Propeller. For the civilian G-111 conversion the 982C9HE (Similar to R-1820-82)/43D51 combination was used. Some civilian Albatrosses have had the R-1820-76 engines replaced with the R-1820-80 or other non-standard R-1820 configurations. These unique conversions are not listed on any of the Type Certificate Data Sheets.

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Triphibian version

Many of the USAF aircraft were built as triphibian models. This allowed the aircraft to operate not only on land and water, but also on snow/ice. It involved a strengthening of the hull structure particularly around the step area, installation of a large hydraulic strut which extended a large ski which ran from the aft end of the nose gear doors to the extension strut at the step and installation of outrigger skis which attached to the front of each wing tip float. The USAF versions did not receive any special

designation for this modification, however the USN did order 2 triphibian versions which were designated as UF-1L (LU-16C). These 2 airplanes were ordered to support Operation Deep Freeze in Antarctica. Additionally, the Canadian CSR-110 models were also Triphibians. A Triphibian can be easily identified by the presence of a large square opening in the keel of the airplane just aft of the main step, however this opening may have been covered over on civilian airplanes.



Military Model differences

The differences between aircraft built for each specific service are generally very minor. A few of the more common were some of the cold weather modifications installed on USAF airplanes including Hot Fuel Primers and Oil Dilution along with a different style oil tank more suited to cold weather operations. The USAF Models incorporated a drop tank system that used explosive squibs for the emergency release while the USN models used an electrical solenoid system with a hydraulic backup. There were also some communication and navigation differences. Other minor differences were also present between various services. It should be noted that in civilian operation very few of these differences are relevant as most of these systems are removed when the aircraft is prepared for civilian use.

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Production History

Of the 464 production airplanes, the first 443 were delivered from the factory as short wing model Albatrosses. They consisted of a variety of specific models and were built for the USAF, USN, USCG and Indonesia. The original order of 32 short wing airplanes was placed by the USN and were given a designation of PF-1, however these were ultimately delivered to the USAF with the designation of SA-16A. The short wing airplanes delivered to the USN were designated as UF-1, and those for the USCG were designated as UF-1G. The USN also ordered and received 2 unique models of the Albatross. The UF-1T was a specially configured model for the US Naval academy and the UF-1L was a Triphibian version.

Short Wing Delivery Totals

Model	Delivered	Qty	First Del	Last Del	C/N range
SA-16A	USAF	288	Aug 1949	Feb 1954	G001-G241 (not sequential)
UF-1	USN	103	Dec 1949	Dec 1956	G010-G434 (not sequential)
UF-1G	USCG	37	May 1951	Nov 1955	G061-G362 (not sequential)
UF-1L	USN	2	Dec 1952	Dec 1952	G212 & G2 <u>14</u>
UF-1T	USN	5	Aug 1953	Oct 1953	G305-G320 (not sequential)
UF-1	Indonesia	8	Nov 1957	Jun 1958	G436-G443
Total		443			

As was common with many aircraft manufacturers during the period the Albatrosses were built, Grumman subcontracted the construction of many of the Albatross airframes to another manufacturer. These hulls were built at the Chrysler Corporation plant in Evansville, IN and then trucked to Bethpage, NY for final assembly at the Grumman factory. Construction number G116 was the first hull built by Chrysler and then for a period Grumman and Chrysler were both building the airframes until G151 at which point all airframe production took place at Chrysler. This continued until G364 which was the last hull built by Chrysler and then all subsequent hulls were built by Grumman at Bethpage. A total of 227 airframes were ultimately built by Chrysler.

The final 21 airplanes were built as Long wing models for foreign customers and delivered as follows:

Factory built Long Wing Delivery Totals

Model	Delivered to	Qty	First Del	Last Del	C/N range
UF-2	W Germany	5	Jan 1959	Apr 1959	G444-G448
CSR-110	RCAF	10	Sep 1960	Mar 1961	G449-G458
UF-2	JMSDF	6	Feb 1961	May 1961	G459-G464
Total		21		·	

That covers the construction and initial delivery of every Albatross built.

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Long Wing Conversions

As the Albatross was operated by the various services, there was a desire for additional performance and so the Long Wing Albatross was designed by Grumman. This conversion installed a constant chord wing plug extension outboard of the engine between the wing center section and the wing outer panel and also redesigned the outboard section of the wing leading edge replacing the leading edge slot with a drooped leading edge cuff as well a slight extension to the length of the outer wing panel. Additionally, the tail surfaces were enlarged. The flight controls were all modified to accommodate the redesigned wing and tail surfaces. Additional system modifications were also installed, including electrical system changes and a flight control gust lock system among others.

With the exception of the last 21 airplanes built (as detailed previously), all long wing Albatrosses were converted from short wing models. When they were converted they were redesignated with a new model number. They were also assigned a new long wing serial number which was a sequential number indicating the order in which they were converted (within each service group) and a B/C/D suffix depending on the service. 5 additional airplanes were converted for Argentina as SA-16B and assigned 01ARG-05ARG.

Long Wing	Conversion	Totals			
Model	Service	Qty	First Del	Last Del	S/N range
SA-16B	USAF A	89	Jan 1957		00B-88B
UF-2G	USCG	79	Apr 1957	Aft 1961	/ 01C-79C
UF-2	USN	33		Aft Jan 1960	01D _T 33D
SA-16B	Argentina	5	Bef Jul 1962	Aft Jun 1963	° 01ARG-05ARG
Total		206		L = #	
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ASW Long Wing Conversions

An additional group of airplanes underwent the same long wing conversion as well as additional modifications to convert the airplane into an ASW (Anti-Submarine Warfare) platform for several foreign militaries. The ASW conversion including a redesigned nose cone which housed a large search radar as well as the installation of a MAD (Magnetic Anomaly Detection) boom in the tail. Large high powered search spotlights were also installed on some ASW aircraft. These airplanes were designated SA-16B/ASW and were converted as follows.

Long wing / ASW conversion totals

Model	Service	Qty	First Del	Last Del	S/N Range
SA-16B/ASW	Norway	20	Jul 1961	Sep 1963	01N-20N
SA-16B/ASW	Chile	3	Jun 1962	Aug 1962	01CT-03CT
SA-16B/ASW	Chile	3	Oct 1963	Oct 1963	01CA-03CA
SA-16B/ASW	Peru	3	Oct 1963	Nov 1963	01P-03P
SA-16B/ASW	Spain	7	Nov 1963	Mar 1964	01SP-07SP
Total		36			y

This makes a total of **242** short wing airplanes converted into long wing airplanes out of 443 which leaves **201** short wing airplanes that were never converted. With the 21 Factory Built Long Wings we have a total of **263** long wing airplanes

US DoD 1962 Re-designation (

In 1962 all US Military aircraft were re-designated under the *Tri-Service Aircraft Designation System*. The Albatross received the designation U-16 – U denoting the aircraft basic mission as Utility. The basic aircraft was further designated as the HU-16 with the H denoting the modified mission code of Search and Rescue. Special variants of the Albatross received the TU-16 (Trainer), LU-16 (Equipped for Cold Weather Operations) and SHU-16 (Anti-Submarine Warfare / Search & Rescue) designations

The variants of the Albatross were designated by the following suffixes.

Service	Type	Series Letter	Full Designation
USAF	Short Wing	Α	HU-16A
USAF	Long Wing	В	HU-16B
USN	Short Wing	С	HU-16C
USN	Long Wing	D	HU-16D
USCG	Long Wing	Е	HU-16E

By this time all USCG short wing airplanes had been retired or undergone the long wing conversion so there was no USCG short wing designation created. This system applied to all the special variants as well (e.g. LU-16C, SHU-16B, etc.) See *Appendix A* for a complete list of the designations.

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Transition of the Albatross to civilian operation.

As the Albatross was phased out and retired most were placed in storage, initially at the USN Litchfield Park Facility and then later at the Aerospace Maintenance & Regeneration Center (AMARC) at Davis Monthan AFB with all of the Litchfield Park airplanes eventually being moved to AMARC. When the aircraft was ultimately declared surplus, the Albatrosses in storage at AMARC were sold at auction. Most of these were bought by Grumman for the G-111 project described below. At the completion of this project the remainder were sold to civilian scrap/restoration yards in Tucson and other civilian owners.

Ex-military aircraft that have a certified civilian counterpart (e.g. C-47 / DC-3) can be certified under the civilian type certificate after being bought as surplus. However, the Albatross did not have a civilian counterpart and thus there was no Type Certificate in existence. In this instance, the FAA has a process whereby an individual or company can develop a type certificate for such an airplane and then those aircraft can receive a Restricted Category airworthiness certificates. See *Appendix C* for a further discussion of Restricted Category. There are 5 such type certificates for the Albatross. 3 of these (A2GL, A20NM, T00003LA) are specific to a single serial number. The last 2 were used to certify the vast majority of civilian Albatrosses. A23NM covers short wing airplanes only and applies to 61 specific serial numbers. A33SO covers short wing and long wing airplanes and also applies to 61 specific serial numbers. Some serial numbers are listed on both of these Type Certificates but one or the other is used when applying for an Airworthiness certificate. Resorts International (Flying Boats, Inc) also developed a 6th Type Certificate (A22SO) for the certification of the G-111 models. See *Appendix D* for a listing of all the type certificates and the airframes they are applicable to.

Some aircraft are also operated under Experimental category airworthiness certificates. In those cases the Type certificates listed above are not relevant.

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Long Wing Life Limit

As part of the development of the Type Certificate A33SO for the long wing Albatrosses, the FAA mandated a life limit on those aircraft due to the construction of the wing and the results of testing conducted by the US Navy. This testing was conducted in by the US Naval Air Development Center Johnville in Warminster, PA after the discovery of corrosion damage in the spar caps of several aircraft. The results of the testing were published 30 June 1970 as Report # NADC-ST-7007 "Determination of the Life Remaining in the Model HU-16E Airplane Wing" which has become commonly referred to as "The Philadelphia Report". As part of the Long Wing conversion process all 4 spar caps had steel reinforcing doublers installed which appears to have precipitated the corrosion that prompted the fatigue test. Additionally 2 rivet holes were plugged during the conversion and this is the spot where the cracks in the spar caps originated.

During the test a USCG HU-16E (USCG 1264 - G150) wing with 7,216 service hours was subjected to a total of 12,500 test hours. The right wing failed at 8,200 test hours at which point a Grumman designed steel doubler plate was installed on the left wing in the area of the jack pad holes. The failure originated in the Main Beam Lower spar cap in the area of the jack pad holes. The test was continued and the left wing accumulated an additional 4,000 test hours before catastrophic failure. It was determined that the

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presence of exfoliation corrosion was a definite factor in the origination of the fatigue cracks but the the amount of corrosion was not relevant (the wing with less corrosion failed first in the test)

The report recommended that all Long wing airplane spar caps be immediately inspected using eddy current NDI procedures and that the Grumman designed doubler be installed on all Long Wing airplanes followed by repetitive eddy current inspections every 200 hours or less. The recommendation was also made that all USCG aircraft be retired at 12,500 flight hours and all USAF, USN and Canadian aircraft be retired at 9,500 flight hours.

Based on the data I have accumulated, the USCG established a life limit of 11,000 flight hours for their aircraft. The vast majority of retired USCG HU-16E models were retired with somewhere between 10,500 and 10,999 hours. USAF airplanes generally seem to have been retired in the 7,000-8,000 hour range. Because of their shorter time in service before retirement, USN HU-16D's were generally retired with roughly 4,000-5,000 flight hours.

The specific life limit for each airframe as determined by the FAA is listed in the Type-Certificate Data Sheet. See Appendix D for the various A33SO life limits and related airframes. The life limits under TCDS A33SO range from 7,371 hours to 9,855 hours. These limits do NOT apply to the short wing Albatross.

As part of the civilian G-111 conversion discussed below, the wing spars on 12 of the 13 G-111's were rebuilt with new titanium spar caps which eliminated the life limit on those aircraft. (1 of the 13 aircraft that was converted to a G-111 did not receive the spar cap replacement and thus retains a life limit. See the Type Certificate for more details) 0 0 0

The full "Philadelphia Report" along with the various Type Certificate Data Sheets are available on my website at www.hu-16.com under HISTORY and then WING LIFE.

It is very important that the full history of any long wing Albatross be determined through original military logbooks to ensure the life limit has not been exceeded before operating the airplane.

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G-111 Conversion

Because of the limitations of the Restricted Category airworthiness certificate, everybody onboard an Albatross certified under that category must be a required crew member necessary for the approved special purpose being performed, and in particular those aircraft cannot carry passengers for hire. In the 1970's Grumman was approached by Resorts International with a request to convert a number of ex-military surplus Albatrosses into Transport category aircraft capable of being operated in passenger carrying service for Chalk's Airlines. The designation G-111 was chosen for the modified airplanes, which can cause some confusion as G-111 was also the primary design number used for the USAF long wing conversions which were designated as SA-16B and then HU-16B. There are distinct critical differences between a military long wing conversion (i.e. SA-16B/HU-16B) and the civilian G-111 as certified under Type Certificate A22SO. Along with the spar modification discussed previously, additional exit doors were installed in the forward part of the cabin, and numerous system changes were also introduced. In addition, all G-111 aircraft were powered by the 982C9HE3 (R-1820-82) series engine and the 43D51 propeller. This project ultimately resulted in the conversion of 13 airplanes into the G-111 configuration which makes them eligible to receive Standard Transport Category US Airworthiness certificates assuming the other airworthiness and certification conditions are met.

All of these modifications and the conversion of the aircraft to the G-111 standard was accomplished by two different Grumman divisions under the authority of FAA Production Certificates (PC) 23 and 1050. These Production Certificates are no longer in effect. A commonly asked question is "Could a standard Albatross be converted today into a G-111". The short answer is "NO". Even if you had all the drawings, tooling, etc., and performed every modification, without the production certificate authority you would still not have an airplane that could be certificated as a G-111. A full discussion of the various G-111 differences is outside the scope of this paper.

The airframes ultimately converted to G 111's were as follows

Service	Model	Quan	tity
USAF	HU-16B	2 /	
USN	HU-16D	2	
USCG	HU-16E	2	
RCAF	CSR-110	2	(Royal Canadian Air Force)
JMSDF	UF-2	5	(Japan Maritime Self Defense Force)
Total		13	,

These aircraft were converted by Grumman in the early 1980's and several went into service with Chalk's airlines briefly. The remainder were ferried to Marana Air Park and placed in storage, with most of the the remaining operational airplanes joining them when they were taken out of service. Of the 13 aircraft, 1 or 2 remain at Marana and 5 or 6 have been reportedly relocated from Marana to Hannibal, MO (although one is reported to have had an off airport landing in New Mexico – N125FB), 3 are operating with private owners (VH-NMO, N51ZD, N121FB), 1 is stored disassembled in Fort Pierce, FL (N117FB), 1 is stored in Mesa, AZ (N115FB), and 1 was destroyed in an accident (120FB).

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Unique Conversions

There are three Albatrosses that warrant mention as unique or experimental conversions.

The first is an HU-16A MSN G77 (ex USA 51-0004) which was converted by Conroy corporation with turbine engines. Conroy is more well known for their various Super Guppy conversions for NASA. Their Albatross conversion incorporated Rolls Royce Dart Engines and special nacelles and exhaust modifications. The prototype was completed and first flown on 25 February 1970 but no further aircraft were converted to this configuration. The sole example registered as N16CA was stored at New Smyrna

Beach, FL for many years and ultimately scrapped sometime around 2010-2017. As a side note the aircraft on Display at the Baltimore Air National Guard base is painted as USAF 51-0004 but is actually USAF 51-7193 (MSN G255).



A more recent specialized Albatross conversion was N44RD (MSN G405 – ex USN 137932) which was created by Reid Dennis for the specific purpose of recreating the route flown by Amelia Earhart followed by the completion of a circumnavigation of the globe. This aircraft was a USN HU-16C that was modified



by installing the outer wing panels from a Long wing Albatross but omitting the constant chord plug of the Long wing conversion. This resulted in a wing span of 85'0". Additionally portions of the outer wing panels were modified to hold fuel. This modification also necessitated the installation of a fuel dump system. N44RD was recently retired and donated to the Hiller Aviation Museum in Northern California where it is currently on display.

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Certainly the most unique Albatross modification was undertaken by Shin Meiwa Industries in Japan. As part of the development process for their PS-1 / US-1 Flying boat they heavily modified an ex USAF HU-16A 51-472 (MSN G153) which was redesignated as the UF-XS. This aircraft was transferred to the Japanese Maritime Self Defence Force (JMSDF) under the Mutual Defense Aid Project and was assigned USN Bu No 149822 for the transfer. Shin Meiwa used the aircraft as a test bed for several concepts that were being developed for the PS-1. In particular they installed a compressed air system that channeled high pressure air over the top of the wing to improve boundary layer control and provide better short take off and landing



performance. A GE T58 Turbine engine was installed in a fairing mounted on top of the center section of the aircraft to power this system. Two additional R-1340 radial engines with 2 bladed propellers were mounted on the wing outboard of the original R-1820's. Much of the lower part of the fuselage was reshaped, the Horizontal stabilizer was moved to a T-tail configuration and the aircraft was reconfigured with a tail wheel. This aircraft is currently on display with all the modifications intact at Kakamigahara Aerospace Museum in Kakamigahara City, Miho, Japan.



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Summary of Albatross Production and Conversions

- 2 Protoype airplanes
- 464 Production airplanes
 - 443 built as short wing models
 - 288 to USAF as SA-16A
 - 103 to USN as UF-1
 - 37 to USCG as UF-1G
 - 2 to USN as UF-1L
 - 5 to USN at UF-1T
 - 8 to Indonesia as UF-1
 - 242 short wing models subsequently converted to long wing models
 - 206 standard long wing models
 - o 89 to USAF as SA-16B
 - o 79 to USCG as UF-2G
 - o 33 to USN as UF-2
 - 5 to Argentina as SA-16B
 - 36 long wing ASW models
 - 20 to Norway as SA-16B/ASW (SHU-16B)
 - o 6 to Chile as SA-16B/ASW (SHU-16B)
 - 3 to Peru as SA-16B/ASW (SHU-16B)
 - o 7 to Spain as SA-16B/ASW (SHU-16B)
 - 21 built as factory long wing models
 - 5 to West Germany as UF-2
 - 10 to RCAF as CSR-110
 - 6 to Japan as UF-2
- 201 short wing models never converted
- 263 long wing models total
- 13 airplanes converted to civilian G-111 configuration
 - o 2 from USAF HU-16B
 - o 2 from USN HU-16D
 - o 2 from USCG HU-16E
 - o 2 from RCAF CSR-110
 - 5 from JMSDF UF-2
- 128 Albatrosses still in existence
 - 51 on Display in museums, as gate guards or in similar settings
 - 74 Flyable or Potentially restorable
 - 42 are actively flying or could likely be made ferryable
 - 32 would require major work / restoration
 - 2 are abandoned and unrecoverable

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Training Requirements

As the Albatross has a gross weight in excess of 12,500 pounds, a type rating is required to act as Pilot in Command. The type rating for all Albatrosses is issued as a G-111 type rating. Of course a Multi-Engine seaplane rating is also required. Additionally, each PIC must maintain currency in accordance with FAR part 61.58 - Pilot-in-command proficiency check: Operation of aircraft requiring more than one pilot flight crewmember.

The Albatross also requires a Second in Command. For domestic operations, the SIC does not require a type rating, but they would require a Multi-Engine Seaplane rating. There are some opinions that a Multi-Engine Land rating would suffice if no water operations are conducted. For international operations a SIC Type rating (FAR 61.55(e)) is required.

It should also be noted that primary type rating training for the G-111 type rating cannot be given in a Restricted Category HU-16 unless an exemption to the requirements of FAR 91.313 is received from the FAA or Flight Training is approved as a special purpose for that aircraft. Recurrent training (FAR 61.58) may be conducted in any HU-16/G-111.

International Operations

Generally, there are no special issues with operating a restricted category Albatross internationally, as long as the limitations of the Restricted category certificate are complied with and the aircraft is operated for a special purpose for which it is certificated. It must be noted, however, that a Restricted Category aircraft may not meet the applicable airworthiness code as provided by Annex 8 to the Convention of International Civil Aviation and may require special permission from the civil aviation authority in the country you wish to operate the aircraft in.

Because an aircraft certificated under the experimental category is not required to meet normal airworthiness requirements, special permission must be obtained from the civil aviation authority of any foreign country you wish to operate the aircraft in.

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Manuals

All the manuals used to support the operation of the Albatross are ex Military manuals. There were also some additional manuals created for the G-111. Generally the USAF and USN manuals contain the same basic information but the USN manuals tend to be better organized and more useful. The USAF identifies their manuals using a Technical Order (TO) designation, while the USN identifies them using a NAVAIR Designation. The USAF System is more consistently logical when referring to the complete range of manuals relating to individual components.

You will often hear manuals referred to by a dash number (Dash 1, etc). This comes from the identification used for the primary manuals: -1 (Flight Manual), -2 (Maintenance), -3 (Structural Repair), -4 (Parts), -5 (Weight & Balance), -6 (Inspection).

Below is a listing of some of the most relevant maintenance manuals.

Description	USAF Identification	USN Identification			
Aircraft Manuals					
Flight Manual (Short Wing)	1U-16(H)A-1	01-85AC-1			
Flight Manual (Long Wing)	1U-16(H)B-1	0 1-85 AD-1			
Erection & Maintenance Instructions	1U-16(H)A-2	01-85AB-2			
Structural Repair	1U-16(H)A-3	/ 01-85AB-3			
Illustrated Parts Book	1U-16(H)A-4	/ 01-85AB-4			
Weight & Balance Handbook	1U-16(H)A-5	01-85AB-5			
Aircraft Inspection Requirements	1U-16(H)A-6	_01-85AB-6			
	Engine Manuals				
R-1820-76 Service Instructions	2R-R1820-22	02A-35GH-2			
R-1820-82 Service Instructions	2R-R1820-22	02A-35GN-502			
R-1820-76 Overhaul Instructions	2R-R1820-23	02A-35GH-3			
R-1820-82 Overhaul Instructions	2R-R1820-23	02A-35GN-503			
R-1820-76 Illustrated Parts Breakdown	2R-R1820-24	02A-35GH-4			
R-1820-82 Illustrated Parts Breakdown	2R-R1820-24	02A-35GN-504			
	Propeller Manuals				
43D50 Propeller Service	3H-12-2	03-20CC-38			
43D50 Propeller Overhaul Instructions	3H-12-3	03-20CC-39			
43D50 Propeller Illustrated Parts	3H-12-4	03-20CC-40			

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Appendix A

Albatross Design Number Matrix - Short Wing

Des	Qty	SA-16A	UF-1	UF-1T	UF-1L	UF-1G	UF-1
G-64	443	288 USAF	103 USN	5 USN	2 USN	37 USCG	8 Indonesia

Albatross Design Number Matrix – Long Wing Conversions

		Conversions				Factory buil	Factory built long wings		
Design	Qty	SA-16B	UF-2 (conv)	UF-2G	SHU-16B	UF-2 (Orig)	CSR-110		
G-111	89	89 USAF	01 2 (00114)	01 20	3110 100	Of 2 (Offg)	CSN 110		
G-211	33		33 USN						
G-234	59			59 USCG					
G-251	20	<u> </u>			20 Norway				
G-270	9			9 USCG					
G-288	11			11 USCG	3				
G-315	6				6 Chile		1		
G-333	5		5 Argentina						
G-340	?		? Argentina						
G-341	3				3 Peru				
G-342	7				7 Spain				
G-191	5					5 W Germ			
G-231	10						10 Canada		
G-262	6					6 Japan			

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Appendix B

Albatross Model Number / Redesignation Matrix

Base Model								
base Model	1962 Redesignation	Long Wing Conv	Comments					
XJR2F-1	N/A	N/A	Prototypes – 2 built					
	USAF Numbering							
Base Model	1962 Redesignation	Long Wing Conv	Comments					
SA-16A	HU-16A	SA-16B/HU-16B	USAF					
SA-16B	HU-16B		USAF					
SA-16B/ASW	SHU-16B		Foreign use					
	USN Nu	mbering						
Base Model	1962 Redesignation	Long Wing Conv	Comments					
PF-1	N/A	N/A	Del to USAF as SA-16A					
UF-1	HU-16C	UF-2 / HU-16D	USN					
UF-1T	TU-16C	N/A	USN / Tr ainer					
UF-1L	LU-16C	N/A	USN – Triphibian					
UF-2	HU-16D		USN					
	A USCG Nu	ımbering						
Base Model	1962 Redesignation	Long Wing Conv	Comments					
UF-1G	N/A	UF-2G / HU-16E	USCG					
UF-2G	HU-16E		USCG° /					
	RCAF Nu	mbering -						
Base Model	1962 Redesignation	Long Wing Conv	Comments					
CSR-110	N/A	N/A	RCAF					
	1962 Rede	signations						
1962 Redesignation	Previously	Long Wing Conv	Comments					
HU-16A	SA-16A	SA-16B/HU-16B	USAF					
HU-16B	SA-16B		USAF					
HU-16C	UF-1	UF-2 / HU-16D	USN					
HU-16D	UF-2		USN					
HU-16E	UF-2G		USCG					
LU-16C	UF-1L	N/A	USN – Triphibian					
SHU-16B	SA-16B/ASW		Foreign use					
TU-16C	UF-1T	N/A	USN – Trainer					

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Albatross Model Number descriptions

Model	Description
CSR-110	RCAF Long wing model
G-111	· ·
	Civilian Transport category conversion
SA-16A	USAF Short wing model - Standard
HU-16A	USAF Short wing model after 1962
SA-16B	USAF Long wing model – Standard
HU-16B	USAF Long wing model after 1962
SA-16B/ASW	Foreign Long wing ASW (Anti-submarine warfare) model
SHU-16B	Foreign Long Wing ASW (Anti-submarine warfare) model after 1962
UF-1	USN Short wing model – Standard (replaced PF-1A designation)
UF-1G	USCG Short wing model - Standard
UF-1L	USN Short wing triphibian model
UF-1T	USN Short wing trainer model (specially equipped for USN Academy)
HU-16C	USN Short wing model after 1962
LU-16C	USN Short wing triphibian model after 1962
TU-16C	USN Short wing trainer model after 1962
PF-1A	Original USN Short wing designation (never delivered as this model #)
UF-2	USN Long wing model, Also used for West German and Japanese models
HU-16D	USN Long wing model after 1962
HU-16RD	Specially modified version assembled under TCDS T00003LA
UF-1G	USCG Short wing model
UF-2G	USCG Long wing model
HU-16E	USCG Long wing model after 1962
HU-16T	Grumman Super Albatross – 4 engine turboprop version – Never built
XJR2F-1	Prototype designation

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Albatross Model Specifications

Albatioss Model 3	peemeations						
Model	Wing Span	Length	Height	Engine	Propeller	# Built	# Conv
CSR-110	96′ 8″	62′ 9″	25′ 10″	R-1820-82	43D51	10	
G-111	96′ 8″	62′ 9″	25′ 10″	982C9HE	43D51		13
SA-16A	80′ 0″	62′ 1″	24′ 5″	R-1820-76	43D50	288	
HU-16A	80′ 0″	62′ 1″	24′ 5″	R-1820-76	43D50	Re-desi	gnation
SA-16B	96′ 8″	62′ 9″	25′ 10″	R-1820-76	43D50		89
HU-16B	96′ 8″	62′ 9″	25′ 10″	R-1820-76	43D50	Re-desi	gnation
SA-16B/ASW	96′ 8″	63′ 10″	25′ 10″	R-1820-76	43D50		36
SHU-16B	96′ 8″	63′ 10″	25′ 10″	R-1820-76	43D50	Re-desi	gnation
PF-1	80′ 0″	62′ 1″	24′ 5″	R-1820-76	43D50		
UF-1	80′ 0″	62′ 1″	24′ 5″	R-1820-76	43D50	103	
UF-1G	80′ 0″	62′ 1″	24′ 5″	R-1820-76	43D50	37	
UF-1L	80′ 0″	62′ 1″	24′ 5″	R-1820-76	43D50	2	
UF-1T	80′ 0″	62′ 1″	24′ 5″	R-1820-76	43D50 /	5	
HU-16C	80′ 0″	62′ 1″	24′ 5″	R-1820-76	43D50/	Re-desi	gnation
LU-16C	80′ 0″	62′ 1″	24′ 5″	R-1820-76	43D5Ø	Re-desi	gnation
TU-16C	80′ 0″ A	62′ 1″	24′ 5″	R-1820-76	43D50	Re-desi	gnation
PF-1A	80′ 0″	62′ 1″	24′ 5″	R-1820-76	43D 50	0	
UF-2 conv	96′ 8″	62′ 9″	25′ 10″	R-1820-76	43D50 ¹		33
UF-2 original	96′ 8″	62' 9"	25′ 10″	R-1820-76	43D50	11)	
HU-16D	96'8"	62′9″	25′ 10″	R-1820-76	43D50	Re-desi	gnation
HU-16RD	85′ 0″	62'1"	25′ 10″	R-1820-82	43D51		1
UF-1G	80′ 0″	62' 1"	24′ 5″	R-1820-76	43D50	37	
UF-2G	96′ 8″	62′ 9″	25′ 10″	R-1820-76	43D50		79
HU-16E	96′ 8″	62′ 9″	25′ 10″	R-1820-76	43D50	Re-desi	gnation
HU-16T						Concer	ot Only
XJR2F-1	80′ 0″	62′ 1″	24′ 5″	R-1820-76	43D50	2	

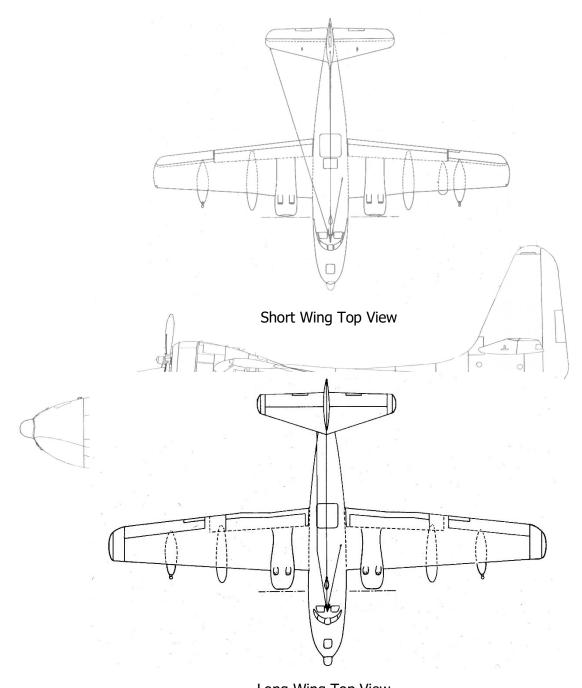
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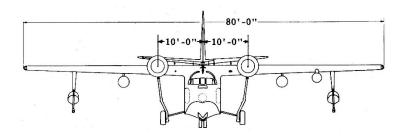
Albatross Model 3 View Drawings



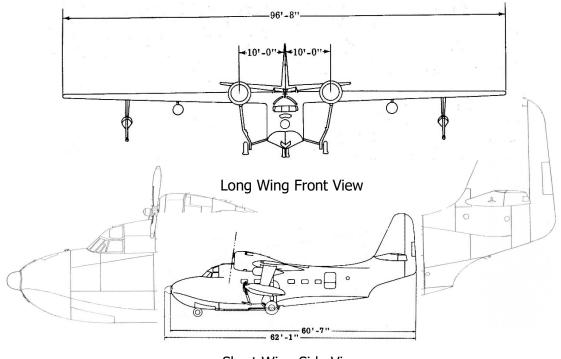
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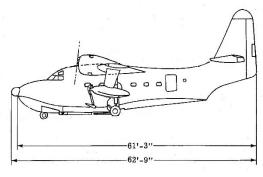
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Short Wing Front View



Short Wing Side View



Long Wing Side View

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Appendix C

FAA Airworthiness Certificate Definitions

The following is from the FAA Website (partial content only). Refer to the FAA Website, Federal Aviation Regulations or other official source for the most current and complete information

What is a standard airworthiness certificate?

https://www.faa.gov/aircraft/air cert/airworthiness certification/std awcert/

A standard airworthiness certificate (FAA form 8100-2 displayed in the aircraft) is the FAA's official authorization allowing for the operation of type certificated aircraft in the following categories:

- Normal
- Utility
- Acrobatic
- Commuter
- Transport
- Manned free balloons
- Special classes

A standard airworthiness certificate remains valid as long as the aircraft meets its approved type design, is in a <u>condition for safe operation</u> and maintenance, preventative maintenance, and alterations are performed in accordance with 14 CFR parts 21, 43, and 91.

Special airworthiness certificates

https://www.faa.gov/aircraft/air cert/airworthiness certification/sp awgert/

The FAA Special airworthiness certificate (FAA Form 8130-7) is an FAA authorization to operate an aircraft in the US airspace in one or more of the following categories

in the ob an space	in one of more of the following categories	To To
Category	Purposes	Title 14 CFR
Restricted	Aircraft with a "restricted" category type certificate, including:	21.25
	• Agricultural	21.185
	 Forest and wildlife conservation 	
	Aerial surveying	
	 Patrolling (pipelines, power lines) 	
	Weather control	
	Aerial advertising	
	 Other operations specified by the Administrator 	
Experimental	Research and development	21.191
	 Showing compliance with regulations 	21.193
	Crew training	21.195
	Exhibition	
	Air racing	
	Market surveys	

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Restricted Category Operating Limitations

§ 91.313 Restricted category civil aircraft: Operating limitations. Link to an amendment published at 81 FR 96700, Dec. 30, 2016.

- (a) No person may operate a restricted category civil aircraft -
 - (1) For other than the special purpose for which it is certificated; or
 - (2) In an operation other than one necessary to accomplish the work activity directly associated with that special purpose.
- (b) For the purpose of <u>paragraph (a)</u> of this section, operating a restricted category <u>civil aircraft</u> to provide flight <u>crewmember</u> training in a special purpose operation for which the <u>aircraft</u> is certificated is considered to be an operation for that special purpose.
- (c) No <u>person</u> may operate a restricted category <u>civil aircraft</u> carrying <u>persons</u> or property for compensation or hire. For the purposes of this paragraph, a special purpose operation involving the carriage of <u>persons</u> or material necessary to accomplish that operation, such as crop dusting, seeding, spraying, and banner towing (including the carrying of required <u>persons</u> or material to the location of that operation), and operation for the purpose of providing flight <u>crewmember</u> training in a special purpose operation, are not considered to be the carriage of <u>persons</u> or property for compensation or hire.
- (d) No person may be carried on a restricted category civil aircraft unless that person/-
 - (1) Is a flight crewmember;
 - (2) Is a flight <u>crewmember</u> trainee;
 - (3) Performs an essential function in connection with a special purpose operation for which the <u>aircraft</u> is certificated; or
 - (4) Is necessary to accomplish the work activity directly associated with that special purpose.
- (e) Except when operating in accordance with the terms and conditions of a certificate of waiver or special operating limitations issued by the Administrator, no person may operate a restricted category civil aircraft within the United States
 - (1) Over a densely populated area;
 - (2) In a congested airway; or
 - (3) Near a busy airport where passenger transport operations are conducted.
- (f) This section does not apply to nonpassenger-carrying civil <u>rotorcraft</u> external-load operations conducted under part 133 of this chapter.
- (g) No <u>person</u> may operate a small restricted-category civil <u>airplane</u> manufactured after July 18, 1978, unless an approved shoulder harness is installed for each front seat. The shoulder harness must be designed to protect each occupant from serious head injury when the occupant experiences the ultimate inertia forces specified in § 23.561(b)(2) of this chapter. The shoulder harness installation at each flight <u>crewmember</u> station must permit the <u>crewmember</u>, when seated and with the safety belt and shoulder harness fastened, to perform all functions necessary for flight operation. For purposes of this paragraph -
 - (1) The date of manufacture of an <u>airplane</u> is the date the inspection acceptance records reflect that the <u>airplane</u> is complete and meets the <u>FAA</u>-approved type design data; and
 - (2) A front seat is a seat located at a flight <u>crewmember</u> station or any seat located alongside such a seat.

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Appendix D

Albatross Type Certificates

			T	
TCDS#	Current Owner	Revision	Rev Date	Models
A2GL	Trans America Air Transport Inc	Original	20 Jun 1978	HU-16B – 1
A20NM	Viking Air	Original	3 Oct 1986	HU-16D – 1
A22SO	Amphibian Aircraft Technologies, LLC	Rev 10	1 May 2016	G-111 – 13
A23NM	Dennis Buehn	Rev 4	10 Sep 1998	HU-16C - 56
				TU-16C – 5
A33SO	Amphibian Aircraft Technologies, LLC	Rev 10	1 May 2016	HU-16A - 14
				HU-16B – 15
				HU-16C - 17
				HU-16D - 9
				HU-16E – 6
T00003LA	Reid Dennis	Original	3 Dec 1998	HU-16RD - 1

The information contained herein was correct at the time this document was created. The current Type Certificate Data Sheets and aircraft registration information are always available on the FAA website.

http://www.airweb.faa.gov/Regulatory_and_Guidance_Library/rgMakeModel.nsf/MainFrame?OpenFram **eSet**

Australian Albatross Type Acceptance Certificates

The Australian Civil Aviation Safety Authority (CASA) has issued the following Type Acceptance Certificates which allows conforming aircraft that are eligible for a Airworthiness certificate under the associated US Type Certificate to receive an Australian Special Certificate of Airworthiness in the Restricted Category (HU-16A) or Certificate of Airworthiness in the Transport Category (G-111).

CASA TAC	Current Owner	US TCDS	TAC Issue Date	Models
A176	Trans America Air Transport Inc	A33SO	21 Jun 2000	HU-16A - 14
A285	Amphibian Aircraft Technologies, LLC	A22SO	5 Aug 2013	G-111 - 13

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The following table shows which airplanes are currently listed on each type certificate. The Type Certificate holder does have the ability to add additional aircraft to a type certificate.

Notes on the following table:

- 1. Under each column, the aircraft serial numbers that are listed on that particular TCDS will be noted. The Model number and serial number as they are listed in the TCDS will be included, along with the airframe life limit if applicable.
- 2. As discussed previously, model numbers and serial numbers were not always used in a consistent manner when describing aircraft in these documents and the FAA aircraft registration system. The FAA generally accepted whatever the owner/holder of the TCDS entered on the application. On entries that are, in my opinion, not entirely correct, I have highlighted the information with *italics*. The color coding is based on the information listed in the TCDS which is why you will see conflicting information on certain airframes between multiple TCDS entries.
- 3. The registration numbers in the first column below the Grumman Construction number were based on information retrieved from the FAA aircraft registration database. This information was current at the time this document was produced but may change as time passes. The current aircraft registration information is always available on the FAA website.
- 4. I have included all registered airplanes even if they are not listed on any of the Type Certificate Data Sheets.
- 5. A Red MSN indicates an airframe I believe has been destroyed/scrapped, Green indicates an existing airframe and Black indicates unconfirmed.
- 6. Green registration numbers are current registrations, black are previous registrations that are no longer valid and bue indicates foreign registrations

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G010 HU-16C 124374 G016 HU-16C 124376 G019 HU-16C	
G016 HU-16C 124376	
124376	
G019 HU-16C	
124377	
G022 HU-16C	
124378	
G025 HU-16C	
124379	
G032 HU-16A	
49-074	
G033 HU-16A	
ex N98HU 49-075	
G040	
ex N99HU	
G055 HU-16B	
N16HU 49-097	
8,037 hrs	
G057	
N8497J 9099	
G089 8,307 hrs	
Scrapped ex N10016	
G090 HU-16C <i>HU-16A</i>	
N7026C 149836 149836	
G092 HU-16B	
N10019 51-0019	
9,630 hrs	
G099	
N44HQ	
G100 <i>HU-16B</i>	
0126	
8,906 hrs	
G104 <i>HU-16B</i>	
1030	
9,505 hrs	

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MSN	A2GL	A20NM	A22SO	A23NM	A33SO	T00003LA
G108						
ex N866HA					LULICD	
G119					HU-16B 51-0043	
					8,696 hrs	
G146					0,050 1113	
Scrapped						
ex N3395F						
G160					HU-16E	
					1265	
					9,430 hrs	
G173					HU-16B	
N291TC					51-5291	
G174	HU-16B		è		8,936 hrs	
N211MC	51-5292					
NZIINC	10,000 hrs				/	
G186	10/000 1110				/	1
N85303						
G212					HU-16A	
N51025					142428	
G212					HU-16B	
N51025		Tall			<i>51-7162</i>	
					9,500 hrs	
G214					HU-16A	
ex N116AG					132429	
G214					HU-16C	
ex N116AG			C 111		17164	
G218 N122FB			G-111 51-7168			
G219			31 / 100		HU-16B	
Scrapped					86B	
ex N113LA					9,855 hrs	
G233				HU-16C		
ex N1359Y				131890		
G236				HU-16C		
				131891		
G239				HU-16C	HU-16A	
ex N7141H				131892	131892	

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MSN	A2GL	A20NM	A22SO	A23NM	A33SO	T00003LA
G242				HU-16C 131893		
G243 N98TP						
G244					HU-16B	
Scrapped					51-7187	
ex N48318					8,254 hrs	
G245				HU-16C 131894		
G246					HU-16D	
ex MP-429					7188 9,656 hrs	
G249				HU-16C	5,000 1110	
			9	131895		
G252		-	*	HU-16C		
				131896		
G254	Co.	A.		HU-16C 131897	1	
G257		Α		HU-16C		A
G257				131898	4	
G258	(HU-16B	
N7024S					<i>51-7195A</i>	
0050	- 4A				8,646 hrs	
G259					HU-16E	14
					1272 9,723 hrs	
G261				HU-16C	9,723 1113	
G201				131899		
G264				HU-16C		
				131900		
G269				HU-16C		
				131902		
G273				HU-16C		
6270				131903	1111 460	
G278 ex N7026N				HU-16C 131905	HU-16C 131905	
G281				HU-16C	HU-16C	
N3HU				131906	131906	
G284				HU-16C	151500	
				131907		

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MSN	A2GL	A20NM	A22SO	A23NM	A33SO	T00003LA
G286						
Scrapped ex N10625						
G288					HU-16B	
					99-7213	
6300					9,593 hrs	
G289					<i>HU-16D</i> 7214	
					9,855 hrs	
G290				HU-16C	•	
				131909		
G293				HU-16C	HU-16C	
N7025J G295				131910	131910	
N7029F			· A			
G296				HU-16C	HU-16A	
N416C				131911	131911	
G305		Λ		TU-16C 131914		
G307					HU-16D	
N226CG	(7226	
G308				TU 1CC	9,049 hrs	
G308		To all	0000	TU-16C 131915		
G309					HU-16D	
N70263					7227	
G311				HU-16C	9,043 hrs <i>HU-16A</i>	
ex N55GH				131916	131916	
G311				TU-16C		
ex N55GH				131916		
G314				TU-16C 131917	<i>HU-16C</i> 131917	
G320				TU-16C		
				131918		
G327 Scrapped					HU-16B 51-7240	
Scrapped ex N49115					9,157 hrs	
G331			G-111		· · · · ·	
Crashed			51-7243			
ex N120FB						

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MSN A2GL A20NM A22SO A23NM A33SO T00003LA G332 G-111 N113FB 51-7244 G333 HU-16C HU-16C 131904 N216HU 131904 G334 HU-16D 7245 9,855 hrs G335 HU-16B N29853 *51-7246* 8,922 hrs HU-16C G338 131908 G-111 G339 N121FB 51-7249 G295 ex N1026A G359 HU-16B N226GR 2132 8,785 hrs G361 ex N4470W HU-16E G362 2135 О ө 9,305 hrs G367 HU-16C HU-16C N43GL (1290)142360 142360 HU-16C HU-16A G368 VH-MAH 142361 (1291)142361 HU-16C G369 HU-16C N1954Z (1292)142362 142362 G371 **HU-16E** 1294 9,388 hrs G373 HU-16C HU-16A 137900 137900 G374 G-111 N51ZD 137901

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MSN	A2GL	A20NM	A22SO	A23NM	A33SO	T00003LA
G375				HU-16C		
				137902		
G377					HU-16E	
					137904	
					8,932 hrs	
G378				HU-16C		
				137905		
G381				HU-16C		
ex N43846				137908		
G382				HU-16C		
6204				137909	1111465	
G384					HU-16E	
N7027Z					137911	
G385				HIL 16C	8,312 hrs	
G385				HU-16C 137912	HU-16C 137912	
G388		HU-16D		HU-16C	13/912	
N4796U	U ₂	137915		137905		
1147 300		6,500 hrs		137903		
G389				HU-16C	1	
	(137916		
G394					HU-16C	
Crashed	a la				137921	
ex N7026Y						
G396				HU-16C		
				137923		
G397				HU-16C	HU-16C	
				137924	137924	
G398				HU-16C		
6300				137925	111111111	
G399				HU-16C	HU-16A	
N888AC				137926	137926	
G400				HU-16C	HU-16A	
N7927				137927	137927	
G401				HU-16C 137928	HU-16C 137928	
Display ex N928J				13/920	13/920	
G402				HU-16C		
G 1 02				137929		
				13/323		

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MSN	A2GL	A20NM	A22SO	A23NM	A33SO	T00003LA
G403				HU-16C	HU-16A	
N70133				137930	137930	
G405				HU-16C	HU-16C	HU-16C
Display				137932	137932	137932
ex N44RD						
G406				HU-16C	HU-16C	
Sunk				137933	137933	
N1955G						
G407					HU-16D	
N7973B					1311	
					8,284 hrs	
G409				HU-16C	HU-16C	
N7025N				141262	141262	
G412				HU-16C	HU-16C	
Scrapped			*	141265	141265	
ex N265ES						
G413					HU-16A	
	Co.	1		18	131266	
G414		Λ		HU-16C		
				141267	1	
G418	(HU-16C	HU-16C	
Crashed				141271	141271	
ex N70258	a la					
G420				HU-16C	100	
				141273		
G423				HU-16C	HU-16A	
N43155				141276	141276	
G424				HU-16C		
				141277		
G425					HU-16D	
N20861					141278	
					8,454 hrs	
G432			G-111			
N125FB			141282			
G444					HU-16D	
ex N695S					146426	
					7,871 hrs	
G445					HU-16D	
N10GN					146427	
					8,371 hrs	

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MSN	A2GL	A20NM	A22SO	A23NM	A33SO	T00003LA
G446						
ex N125DA						
G448						
ex N202DA						
G452			G-111			
N118FB			9304			
G456			G-111			
N119FB			9308			
G460			G-111			
N116FB			148325			
G461			G-111			
N117FB			148326			
G462			G-111			
N115FB			148327			
G463			G-111			
N112FB			148328			
			8,900 hrs		1	
G464	U.		G-111	-		A
VH-NMO		Λ	148329			
					000	

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TCDS Information corrections

TCD3 IIIIOII	nation corre	TCDS Information corrections								
TCDS	Const #	Information	Listed	Corrected	Comments					
A33SO	G055	Model #	HU-16B	SHU-16B	ASW equipment removed					
A33SO	G057	Model #	HU-16B	SHU-16B	ASW equipment removed					
A33SO	G057	Serial #	9099	49-099						
A33SO	G090	Model #	HU-16A	HU-16C						
A33SO	G100	Model #	HU-16B	HU-16E						
A33SO	G100	Serial #	0126	1026	Assumed clerical error					
A33SO	G104	Model #	HU-16B	HU-16E						
A33SO	G212	Model #	HU-16A	LU-16C						
A33SO	G212	Model #	HU-16B	LU-16C	Short wing airplane					
A33SO	G212	Serial #	51-7162	142428	Delivered to USN not USAF					
A33SO	G212	Life Limit	9,500 hrs	No limit	Short wing airplane					
A33SO	G214	Model #	HU-16A	LU-16C						
A33SO	G214	Serial #	132429	142429	Assumed clerical error					
A33SO	G214	Model #	HU-16C	LU-16C	Also listed as HU-16A					
A33SO	G214	Serial #	17164	142429	Also listed as 132429					
A33SO	G219	Serial #	86B	51-7169	Both are technically correct					
A33SO	G239	Model #	HU-16A	HU-16C						
A33SO	G246	Model #	HU-16D	HU-16E						
A33SO	G258	Serial #	51-7195A	51-7195						
A33SO	G288	Model #	HU-16B	HU-16E	0 0					
A33SO	G288	Serial #	99-7213	7213						
A33SO	G289	Model #	HU-16D	HÚ-16E	10					
A33SO	G296	Model #	HU-16A	HU-16C						
A33SO	G307	Model #	HU-16D	HU-16E						
A33SO	G309	Model #	HU-16D	HU-16E						
A23NM	G311	Model #	HU-16C	TU-16C	Also listed correctly					
A33SO	G311	Model #	HU-16A	TU-16C						
A33SO	G314	Model #	HU-16A	TU-16C						
A33SO	G327	Model #	HU-16B	HU-16E						
A33SO	G327	Serial #	51-7240	7240						
A33SO	G334	Model #	HU-16D	HU-16E						
A33SO	G335	Model #	HU-16B	HU-16E						
A33SO	G335	Serial #	51-7246	7246						
A33SO	G359	Model #	HU-16B	HU-16E						
A33SO	G368	Model #	HU-16A	HU-16C						
A33SO	G377	Model #	HU-16E	HU-16D						
A33SO	G384	Model #	HU-16E	HU-16D						

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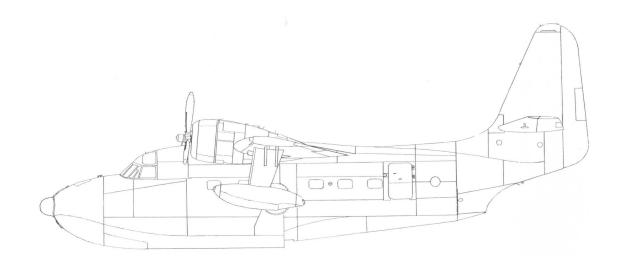
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		1	1	1	
TCDS	Const #	Information	Listed	Corrected	Comments
A23NM	G388	Model #	HU-16C	HU-16D	
A23NM	G388	Serial #	137905	137915	137905 also listed correctly
A33SO	G399	Model #	HU-16A	HU-16C	
A33SO	G400	Model #	HU-16A	HU-16C	
A33SO	G403	Model #	HU-16A	HU-16C	
A33SO	G407	Model #	HU-16D	HU-16E	
A33SO	G413	Model #	HU-16A	HU-16D	
A33SO	G413	Serial #	131266	141266	Assumed clerical error
A33SO	G423	Model #	HU-16A	HU-16C	



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Appendix E

Foreign Albatross Operators

The last foreign operator of the Albatross was Greece. They operated the albatross until sometime in the 1990's. The quantities listed below are based on the best available information.

Country	Military Branch	SA-16A/UF-1 HU-16A/C	SA-16B/UF- 2/2G HU-16B/D/E CSR-110	SA-16B/ASW SHU-16B
Argentina	Air Force		3	
	Navy		5	
Brazil	Air Force	14		
Canada	Air Force		10	
Chile	Air Force		3	6
Greece	Air Force			13
Iceland	Coast Guard	2		
Indonesia	λ.	8	7	
Italy	Air Force	12		
Japan	Maritime Self Defense	1	6	
Malaysia	Air Force		2	
Mexico	Navy		17	
Norway	Air Force			18
Pakistan	Air Force	4	0	
Peru /	Air Force		0	5
Phillipines	Air Force	4	11	
Portugal		3		
Spain		8	5	13
Taiwan (China)	Air Force	14	2	
Thailand	Navy		3	
West Germany	Navy	3	5	

Pan Am	Seychelles		6	
Pan Am	Transocean	3		

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Appendix F

Extant Albatrosses

These three lists include all Albatross airframes that are still in existence to the best of my knowledge. The First list includes all the aircraft (51) that are on display in museums or similar settings around the world. The second list includes all the aircraft (74) that are generally intact and are either flyable or potentially restorable. The final list includes airplanes that remain only as partial airframes, crash remains or that were recently scrapped or lost. I have categorized the aircraft as follows:

Category 1 – Actively Flyable / In License

Category 2 – Complete but not active

Category 3 – Needs Moderate work

Category 4 – Needs Major work/Restoration

Category 5 – Needs Full Restoration

Category 6 – Junk / Destroyed / Scrapped / Timed out – Not viable for rebuild

Category 7 – Complete but in Museum - Not viable for rebuild

The category codes listed above are based purely on my assessment of an individual aircraft from the information currently available to me. They are not intended as a definitive statement of the condition of a particular aircraft and each aircraft may be in a better or worse condition than my assessment.

Information related to deregistered aircraft is in Red

Information that has been confirmed in the FAA Registry is in **BOLD**

Model # color shading follows the same system as the other Appendices

The information under airworthiness is that which is shown in the FAA Registration database as of June, 2019 and is subject to change. No information here is meant in imply that a particular airplane is or is not in an airworthy condition.

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Museum Displays

Museum Dis	piays				
CN/MSN	Model	Registered Owner			Airworthiness
Reg#	Serial	Location	Condition/Status	Cat	Certification
G008	SA-16A	RoCAF Chiayi, Taiwan	Museum Display	7	N/A
11012	48-595	, ,			·
G026	HU-16A	Phillipines AF Museum	Museum Display	7	N/A
48607	48-607	Villamor AB, Manila			
G034	SA-16A	Gang Shan Air Force	Museum Display	7	N/A
11023	49-076	Academy	Not on Google		
		Taiwan	Earth		
G037	SA-16A		Museum Display	7	N/A
6534	49-079	Rio de Janeiro, Brasil	Painted as 6529		
G047	SA-16A	Chang Chen Aviation	Museum Display	7	N/A
11024	49-089	Museum, Taipei,			
		Taiwan			
G062	SA-16A	Cameri AB, Italy	Museum Display	7	N/A
15-02	50-174				
G064	SA-16A	Moron AB, Argentina	Museum Display	7	/ N/A
BS-02	50-176	Λ			/ П
G065	SA-16A	Lampedusa, Italy	Museum Display	7	N/A
15-04	50-177				
G068	SA-16A	Vigna de Valle, Italy	Museum Display	7	N/A
15-05	50-179			_	
G069	SA-16A	Biscarosse, France	Museum Display	7	N/A
15-06	50-180			0	
G077	HU-16A	Florida	Nose used as	7	N/A
ex N16CA	51-004		traveling display,		
			remainder scrapped	_	
G079	HU-16B	SAC Museum, Offut	Museum Display	7	N/A
51-006	51-006	AFB, NE	M D'	_	N1/A
G096	HU-16A	Pima Air & Space	Museum Display	7	N/A
51-022	51-022	Museum, Tucson, AZ	Marana Dissila	_	N1/A
G098	SHU-16B	Santiago, Chile	Museum Display	7	N/A
570	51-024	Ciamaia AD 71 I	M D: 1	_	N1/A
G110	SA-16A	Ciampino AB, Italy	Museum Display	7	N/A
15-08	51-035	Caninia Ttal	Marana Dissila	_	N1/A
G112	SA-16A	Gorizia, Italy	Museum Display	7	N/A
15-09	51-037	Managa AD, Caralia	Marana Disala	_	N1 / A
G121	SA-16A	Moron AB, Spain	Museum Display	7	N/A
AD-1-9	51-045				

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CN/MSN	Model	Registered Owner			Airworthiness
Reg#	Serial	Location	Condition/Status	Cat	Certification
G147	SHU-16B	Hellenic AF Museum	Museum Display	7	N/A
10068	51-068	Tatoi AB, Greece	. ,		,
G153	HU-16A	Kakamigahara	Museum Display	7	N/A
9911	51-472	Aerospace Museum,			
		Miho, Japan			
G163	HU-16B	USAF Museum	Museum Display	7	N/A
51-5282	51-5282	Wright Patterson AFB,	Chuck's Challenge		
		OH			
G187	HU-16B	Museo de Aeronautica	Museum Display	7	N/A
AD-1B-8	51-5304	Madrid, Spain			
G194	HU-16B	Warner Robins AFB, GA	Museum Display	7	N/A
51-7144	51-7144				
G213	HU-16B	Castle Air Museum	Museum Display	7	N/A
51-7163	51-7163	Merced, CA			
G226	HU-16B	USCGAS Clearwater, FL	Museum Display	7	N/A
51-7176	51-7176	Painted as 1023 (False)			
G235	SHU-16B	Tangara AB, Greece	Museum Display	7	/ N/A
17183	51-7183			ļ ,	
G246	HU-16E	La Paz, Mexico	Museum Display	7/	N/A
MP-429	7188				
G250	SHU-16B	Hellenic AF Museum	Museum Display	7	N/A
17190	51-7190	Tatoi AB, Greece			18
G255	HU-16B	Maryland ANG Base,	Museum Display	· 7	N/A
51-7193	51-7193	Baltimore, MD			
G256	HU-16B	Cuatro Vientos, Madrid,	Museum Display	7	N/A
AN-1B-13	51-7194	Spain			
G282	HU-16E	McClellan AFB	Museum Display	7	N/A
7209	7209	Sacramento, CA	Marana Disala	-	NI/A
G292	HU-16E	Floyd Bennet Field	Museum Display	7	N/A
7216	7216	New York, NY	Museum Dienler	-	NI/A
G302	HU-16E	Kirtland AFB	Museum Display	7	N/A
51-071	1280	Albuquerque, NM	False Colors –		
C210	LILL 1CE	Now England Asiation	Memorial	7	NI/A
G310	HU-16E	New England Aviation	Museum Display	7	N/A
7228	7228	Museum, Windsor			
C221	LIL 16D	Locks, CT	Museum Dienley	7	NI/A
G321	HU-16B	U-Tapao AB	Museum Display	7	N/A
1265	51-7235	Bangcock, Thailand	Gate Guard		

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CN/MSN	Model				Airworthiness
Reg#	Serial	Location	Condition/Status	Cat	Certification
G322	HU-16E	Naval Aviation Museum	Museum Display	7	N/A
7236	7236	Pensacola, FL			-
G334	HU-16E	Pacific Coast Air	Museum Display	7	N/A
7245	7245	Museum			
		Santa Rosa, CA			
G336	HU-16E	USCGAS Elizabeth City,	Museum Display	7	N/A
7247	7247	NC	Gate Guard		
G340	HU-16E	USCGAS Cape Cod, MA	Museum Display	7	N/A
7250	7250		Gate Guard		
G341	HU-16E	Linear Air Park	Museum Display	7	N/A
51-7251	7251	Dyess AFB, TX			
G345	HU-16E	Travis AFB Museum	Museum Storage	7	N/A
51-7254	51-7254	Fairfield, CA			
G356	HU-16E	USS Alabama Memorial	Museum Display	7	N/A
2129	2129	Mobile, AL			
G370	HU-16E	March ARB Museum	Museum Display	7	/ N/A
1293	1293	Riverside, CA			/
G401	HU-16C	Deregistered Strange Bird, Inc.	Museum Display	7	Restricted Aerial Surveying
ex N928J	137928	Margaritaville			Carriage of Cargo
		Restaurant			
		Orlando, FL			
G405	HU-16RD	Deregistered	Museum Display	7	Restricted
ex N44RD	137932	Hiller Aviation Institute			Aerial Surveying
1		Hiller Air Museum			
G413	HU-16D		Display in lagoon at	7	N/A
	141266	Orlando, FL	hotel		
G436	SA-16A	Museum Dirgantra	Museum Display	7	N/A
IR-0117	PB-517	Mandal			
	000	Yogyakarta, Indonesia			
G451	CSR-110	Royal Malaysian AF	Museum Display	7	N/A
M35-01	9303	Museum, Kuala Lumpur			
G454	CSR-110	Vera Cruz Naval Base	Museum Display	7	N/A
MP-501	9306	Mexico			

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Intact airplanes – Flyable or potentially restorable

intact all pla	iles – Fiyabii	e or potentially restorable			
CN/MSN	Model	Owner			Airworthiness
Reg#	Serial	Location	Condition/Status	Cat	Certification
G038	SA-16A		Flyable	1	?
PP-ZAT	49-080	Sao Paolo Brazil			
G040	SA-16A	Deregistered	Previously Flyable	2	Unknown
ex N99HU	49-082	AFB, Inc			
COFF	CLUL 1CD	Carlisle, PA	Donato de Electric		F
G055	SHU-16B	Land Air & Sea	Previously Flyable	2	Experimental Exhibition
N16HU	49-097	Restoration, Inc			EXHIBITION
C000	HU-16A	Crescent City, FL	Thumble.	1	Doctricted
G090 N7026C	149836	Candlewood Clipper, LLC	Flyable	1	Restricted Agriculture & Pest Ctrl
N/U26C	149030	?			Aerial Surveying
		· ·			Forest
		· · · · · · · · · · · · · · · · · · ·			Patrolling
		,			Weather Control
					Other
G092	HU-16B	William S Glover	Flyable	1	Experimental
N10019	51-019	Houston, TX			Exhibition
G099	HU-16B	N44HQ, LLC	Flyable	1 ,	Experimental
N44HQ	51-025				Research &
		Used as testbed for			Development Market Survey
6473	1111.460	inflight internet service	D : E		
G173	HU-16B	Amleco, Inc	Previously Flyable	3	Experimental
N291TC	51-5291	Western Intl Aviation			To Show Compliance with FAR
C10C	1111 1CD	Tucson, AZ	Florable / Moreacone	4	
G186 N85303	HU-16B 51-5303	Greatest Generation Naval Museum	Flyable / Museum	1	Restricted Aerial Surveying
1405303	31-3303	San Diego, CA			Carriage of Cargo
G214	LU-16C	Deregistered	Previously Flyable	2	Restricted
ex N116AG	51-7164	Great Gulf Corp	Treviously Tryubic	_	Aerial Surveying
	31 7101	Anoka, MN			
G218	G-111	Barron Aviation, LLC	Previously Flyable	2	Experimental
N122FB	51-7168	Hannibal, MO			Eligible for Standard
					Research &
0000	1111.466	Danastatanad	D		Development
G239	HU-16C	Deregistered Dylan Enterprises, LLC	Previously Flyable	2	Restricted Aerial Surveying
ex N7141H	131892	Carson City, NV			Actial Salveying
		Carson City, 144		<u> </u>	<u> </u>

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CN/MSN	Model				Airworthiness
			a list for		
Reg #	Serial	Location	Condition/Status	Cat	Certification
G243	HU-16B	TP Universal Exports	Flyable	1	Experimental
N98TP	51-7186	Intl, LLC			Crew Training
		Anoka, MN			
G258	HU-16B	Charles Nichols,	Previously Flyable	2	Experimental
N7024S	51-7186	Trustee			Crew Training
		Chino, CA			
G281	HU-16C	James Tuthill	Flyable	1	Restricted
N3HU	131906	DuPage, IL			Forest
					Patrolling
C202	1111166	Clar West Avistica	Thumble.	4	Other
G293	HU-16C	Sky West Aviation,	Flyable	1	Experimental
N7025J	131910	Inc, Trustee			Crew Training
G295	HU-16E	London, ON Canada Christian K Harker	Flyable	1	Evenouimontal
N7029F	7218		riyable	1	Experimental Exhibition
G296	HU-16C	Anoka, MN Lynn Hunt	Previously Flyable	2	Experimental
N416C	131911	_	Previously Flyable	~	Exhibition
G307	HU-16E	Santa Rosa, CA Wilson C Edwards	Flyable	1	Restricted
N226CG	7226	Big Spring, TX	i iyabic	+	Other
G332	G-111	Barron Aviation, LLC	Previously Flyable	2	Standard
N113FB	51-7244	Hannibal, MO	1 Teviousiy 1 Tyable		Transport
G333	HU-16C	Hans Lauridsen	Flyable / Museum	2	Experimental
N216HU	131904	Glendale, AZ	riyabie / riabbani		Exhibition
G335	HU-16E	Flight Management	Flyable / Museum	2	Restricted
N29853	7246	Resources, LLC	Display		Aerial Surveying
-		Tennesee Air Museum	' /		
G339	G-111	Flight Management,	Flyable	1	Standard
N121FB	7249	LLC	,		Transport
		Pacific Northwest			-
G359	HU-16E	Skybound, Inc	Previously Flyable	2	Experimental
N226GR	2132	Bealton, VA	, ,		Exhibition
G367	HU-16C	Cohen Aviation	Flyable	2	Unknown
N43GL	142360	Leasing, LLC			
		UT			
G368	HU-16C	Deregistered	Previously Flyable	2	Unknown
VH-MAH	142361	MM Inc			
ex N143DB		Australia			

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CN/MSN	Model				Airworthiness
Reg#	Serial	Location	Condition/Status	Cat	Certification
G369	HU-16C	Albatross	Flyable	1	Experimental
N1954Z	142362	Adventures, LLC			Exhibition
ex N2NA		Conroe, TX			
G374	G-111	Nimbus Aviation,	Flyable	1	Standard
N51ZD	137901	LLC			Transport
Ex N2660L		St Augustine, FL			
G381	HU-16C	Deregistered	Previously Flyable	2	Experimental
Ex N43846	137908	Skinner Transportation Services, LLC			Exhibition
		Cancun, Mexico			
G384	HU-16D	Air Classics, LLC	Flyable	2	Restricted
N7027Z	137911	Placid Lake, FL	riyabic	_	Agriculture & Pest Ctrl
112 0 = 2 =	10,711	i ideid zaite, i z			Forest
G399	HU-16C	Rick Clemens	Previously Flyable	2	Restricted
N888AC	137926	Carson City, NV			Agriculture & Pest Ctrl
					Aerial Surveying
		N.			Forest
		Λ			Patrolling
				,	Weather Control Carriage of Cargo
G400	HU-16C	Adventures	Previously Flyable	2	Restricted
N7927	137927	Albatross, Inc.	Treviously Tryuble	_	Aerial Surveying
	10, 52,	Fort Pierce, FL			Carriage of Cargo
G403	HU-16C	Deeside Trading	Flyable	2	Restricted
N70133	137930	Company, Ltd.	1.705.0		Agriculture & Pest Ctrl
		Carson City, NV			
G407	HU-16E	FFF Transportation,	Flyable	2	Experimental
N7973B	1311	LĹC	,		Exhibition
		Unknown			
G409	HU-16C	Sea & Air	Flyable	1	Restricted
N7025N	141262	Adventures, LLC	,		Carriage of Cargo
		Carson City, AZ			
G423	HU-16C	Rivero Fernando	Flyable	1	Restricted
N43155	141276	Alvarado			Aerial Surveying
		Santa Rosa, CA			Patrolling
0:5-	1111 465				Other
G425	HU-16D	Upper Limit, LLC	Previously Flyable	2	Restricted
N20861	141278	Wasilla, AK			Aerial Surveying
					Carriage of Cargo

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CN/MSN	Model				Airworthiness
Reg#	Serial	Location	Condition/Status	Cat	Certification
G432 N125FB	G-111 141282	Barron Aviation, LLC Unknown	Unknown Off Airport Landing Reported	2	Standard <i>Transport</i>
G445 N10GN	UF-2 146427	Heritage of Eagles Air Museum Chino, CA	Previously Flyable	2	Restricted Agriculture & Pest Ctrl Aerial Surveying Forest Patrolling Weather Control Carriage of Cargo
G452 N118FB	G-111 9304	Barron Aviation, LLC Hannibal, MO	Previously Flyable	2	Experimental Eligible for Standard To Show Compliance with FAR Eligible for Transport
G456 N119FB	G-111 9308	Barron Aviation, LLC Hannibal, MO	Previously Flyable	2	Experimental Eligible for Standard Research & Development Eligible for Transport
G460 N116FB	G-111 148325	Barron Aviation, LLC Hannibal, MO	Previously Flyable	2	Experimental Eligible for Standard To Show Compliance with FAR Eligible for Transport
G464 VH-NMO ex N42MY	G-111 148329	Peregistered Bank of Utah, Trustee Melbourne, Australia	Previously Flyable	3	Standard Transport

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CNI/NACNI	Madal				Airworthiness
CN/MSN	Model				
Reg#	Serial	Location	Condition/Status	Cat	Certification
G033	HU-16A	Deregistered Sale Reported	Storage	5	Experimental To show compliance
ex N98HU	49-075	Santa Rosa, CA			TO SHOW COMPHANCE
G057	SHU-16B	E-Commerce	Storage	4	Restricted
N8497J	49-099	Education	Storage	•	Forest
110.1575	15 055	Foundation			7 01 000
		Riverside, OK			
G108	HU-16B	Deregistered	Storage	4	Experimental
ex N866HA	51-033	Ed Scott	2007.0.93	-	Exhibition
		El Paso, TX			
G119	HU-16B	Deregistered Western Intl	Storage / Derelict	6	Unknown
Ex N7049D	51-043	Tucson, AZ	Spars Cut –		
		•	Unrestorable	_	
G120	SHU-16B	Elefsis AB, Greece	Storage / Derelict	5	N/A
10044	51-044				
G149	SHU-16B	Elefis AB, Greece	Storage / Derelict	5	/ N/A
10070	51-070	51.6: 45.6	C: / D !: .		
G171	SHU-16B	Elefsis AB, Greece	Storage / Derelict	5	/ N/A
15289	51-5289		Chausas / Dauglist	4	
G174	HU-16B	Floyd Stilwell,	Storage / Derelict	4	Restricted Other
N211MC	51-5292	Trustee Mesa, AZ			Other
G212	LU-16C	Steve McGaugh	Storage / Derelict	5	Unknown
N51025	51-7162	Western Intl Aviation	Storage / Derenct	0	Olikilowii
1131023	31 / 102	Tucson, AZ			
G227	SHU-16B	Elefsis AB, Greece	Storage / Derelict	5	N/A
17177	51-7177	2.0.0.0 / 15/ 0.0000	Storage / Derenet		1,47,
G233	HU-16C	Deregistered	Storage / Derelict	6	N/A
Ex N1359Y	131890	Westernair of Albuquerque	0.0.490, 20.0		,, .
		ARM			
		Tucson, AZ			
G268	SHU-16B	Elefsis AB, Greece	Storage / Derelict	5	N/A
17201	51-7201		a		
G272	SHU-16B	Elefsis AB, Greece	Storage / Derelict	5	N/A
17203	51-7203	T	O. 15 !!:		
G274	SHU-16B	Tatoi AB, Greece	Storage / Derelict	5	N/A
17204	51-7204				

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				1	1
CN/MSN	Model				Airworthiness
Reg#	Serial	Location	Condition/Status	Cat	Certification
G278	HU-16C	Deregistered	Storage / Derelict	5	Unknown
ex N7026N	131905	Robert F Carlson	<i>J</i> ,		
		Specialized Aircraft			
		Tucson, AZ			
G279	SHU-16B	Elefsis AB, Greece	Storage / Derelict	5	N/A
17207	51-7207				
G309	HU-16E	Marsh Aviation	Storage / Derelict	5	Unknown
N70263	7227	International			
		Falcon Field			
		Mesa, AZ			
G311	TU-16C	Deregistered	Storage / Derelict	4	Experimental
ex N55GH	131916	Glen Hyde			To show compliance
		<i>Flight Data Inc</i> Roanoke, TX			
G314	TU-16C	Deregistered	Storage / Derelict	5	Unknown
ex N7024Z	131917	Charles Wootan	Storage / Derenct	ر	
CX 117 02 12	131917	Specialized Aircraft			
		Tucson, AZ			
G316	HU-16E	Studio Operations	Dismantled,	6	N/A
7232	7232	Shreveport, LA	Storage	/	
G323	HU-16E	Deregistered	Storage / Derelict	6	Unknown
ex N330LL	1275	Sean Scott			
		Specialized Aircraft			
6257	1111465	Tucson, AZ	Character / David Sat	6.6	Unknown
G357	HU-16E	Deregistered Connie Edwards	Storage / Derelict	6	UNKNOWN
ex N1026A	2130	Big Spring, TX			
G361	HU-16E	Deregistered Deregistered	Storage / Derelict	5	Restricted
ex N4470W	2134	Airpower, Inc	Storage / Boronet		<i>Other</i>
		Lakeport, CA			
G362	HU-16E	Deregistered	Storage / Derelict	5	N/A
ex N800AR	2135	Western Intl Aviation			
		Tucson, AZ			
G373	HU-16C	Deregistered	Storage / Derelict	5	Unknown
Ex N901DB	137900	Sale Reported Western Intl Aviation			
		Tucson, AZ			
G377	HU-16D	Deregistered	Storage / Derelict	5	Unknown
ex N8523H	137904	Sale Reported	Storage / Dereilet	ا	CHAIOWII
CX 11032311	13/307	Tepic, MX			

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		I			
CN/MSN	Model				Airworthiness
Reg#	Serial	Location	Condition/Status	Cat	Certification
G379	HU-16D	Gunter Island	Storage / Derelict	6	N/A
	137906		Planned for Artificial		
			Reef		
G385	HU-16C	Deregistered	Storage / Derelict	5	Unknown
ex N70270	137912	Charles Wootan			
		Specialized Aircraft			
		Tucson, AZ			
G388	HU-16C	Tre Aviation Corp	Storage / Derelict	4	Unknown
N4796U	137915	Globe, AZ			
G408	HU-16D	Deregistered Westernair of Albuquerque,	Storage / Derelict	5	Unknown
ex N13598	141261	Inc.			
		ARM			
		Tucson, AZ			
G444	UF-2	Deregistered	Storage / Derelict	4	Restricted
ex N695S	146426	Omni Engineer Inc, Trustee		·	Aerial Surveying
		Columbus, OH (KOSU)			Forest
G446	UF-2	Deregistered	Storage / Derelict	5	Patrolling Unknown
ex N125DA	146428	Four Square Ltd	Storage / Derenct)	V VIIII
CX 74123D71	170720	Indonesia		/	
G448	UF-2	Deregistered	Storage / Derelict	5	Unknown
ex N202DA	146430	Four \$quare Ltd	5 /		
0.151		Indonesia		_	
G461	G-111	Deregistered United Capital Corp	Storage / Derelict	5	Standard Transport
ex N117FB	148326	Fort Pierce, FL			Панэрон
G462	G-111	Wildfire Aircraft, LLC	Storage / Derelict	4	Special Flight Permit
N115FB	148327	Falcon Field, Mesa, AZ	2 33 3 3 7 2 3 3 1 0 0	·	Eligible for Standard
					Delivery or Export
G463	G-111	Barron Aviation, LLC	Storage	5	Standard
N112FB	148328	Marana, AZ			Transport
		-		_	-

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Recently or Unconfirmed Scrapped, Partial Remnants

recently or v	Officontinities	u Scrappeu, Partiai Keriiriai	11.3		
CN/MSN	Model				Airworthiness
Reg#	Serial	Location	Condition/Status	Cat	Certification
G009	HU-16A	Guam	Abandoned /	6	N/A
Ex N9942F	48-596	Ex TransOcean Airways	Derelict		
G032	HU-16A		Crashed on beach.	6	N/A
XB-JHH	49-074	Ventanilla, Mexico	Remains partially		
ex N97HU	0.1.1.1		visible		
G072	SA-16A	Ditellandia Air Park,	Dismantled Storage	6	N/A
15-07	50-182	Italy Deregistered	Possibly Scrapped	_	Unknown
G089 ex N10016	HU-16E 51-016	Robert P Ryan	Believe Scrapped	6	UTIKITOWIT
G100	HU-16E	Deregistered	Possibly scrapped	6	Unknown
ex N7027T	1026	Island Flying Boats	Possibly scrapped	0	OHKHOWH
CX 11/02/1	1020	Tucson, AZ			1 21 22
G104	HU-16E	Deregistered	Probably scrapped	6	Unknown
ex N7027L	1030	Sale Reported			
C14C	LIII 1CD	Tucson, AZ <i>Deregistered</i>	Chamana / Davalish		Unknown
G146 ex N3395F	HU-16B 51-067	Jerry Weaver	Storage / Derelict Possibly Scrapped	6	Ulikilowii
ex Noogoi	21-00/	Carson City, NV	Possibly Scrapped		
G160	HU-16E	Deregistered	Storage, Possibly	6	Unknown
Ex N7027J	1265	Western Intl Aviation	Scrapped		
	1205	Tucson, AZ	эсгаррса		
G219	HU-16B	Deregistered	Scrapped	6	N/A
Ex N123RK	51-7169	Sea & Air Adventures, LLC		0	
COOL	CA 1CA	Carson City, NV	Descibly Commond	6	NI/A
G225 15-11	SA-16A 51-7175	Brindisi, Italy	Possibly Scrapped	6	N/A
G244	HU-16B	Deregistered	Reportedly	6	Experimental Programment Pro
Ex N48318	51-7187	Sale Reported	scrapped due to		Crew Training
	31 /10/	Tucson, AZ	corrosion		_
G267	HU-16B	Chanute Air Museum	Scrapped when	6	N/A
51-7200	51-7200	Rantoul, IL	museum closed		, .
G286	HU-16B	Deregistered	Probably Scrapped	6	Unknown
Ex N10625	51-7212	Margaret S DeWitt	,		
0000		Florence, SC			I to I
G288	HU-16E	Deregistered Pacific Flying Fish	Forced Landing,	6	Unknown
ex N7029C	7213	racine riying risit	Sunk		
C201	1111.165	Now Consume Decale C	Pacific Ocean	_	NI/A
G291	HU-16E	New Smyrna Beach, FL	Probably Scrapped	6	N/A
7215	7215				

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CN/MSN	Model				Airworthiness
	Serial	Location	Condition/Status	Cat	Certification
Reg # G303	HU-16E	Deregistered	Probably Scrapped	6	Unknown
ex N712RV	7223	Charles Wootan	Probably Scrapped	0	OHKHOWH
CX 717 12 KV	7223	Specialized Aircraft			
		Tucson, AZ			
G327	HU-16E	Deregistered	Probably Scrapped	6	Restricted
ex N49115	7240	John Parsons			Agriculture & Pest Ctrl Aerial Surveying
		Opa Locka, FL			Forest
					Patrolling Patrolling
					Weather Control
					Carriage of Cargo Other
G331	G-111	Deregistered	Crashed	6	Standard
ex N120FB	7243	Albatross Adventures, LLC	Fort Pierce, FL		Transport
			Remainder		
			Scrapped		
G344	SA-16A	San Pelagio Castle	Scrapped	6	/ N/A
15-14	51-7253	Montegrotto, Italy	17 May 2013		
G351	HU-16E	Deregistered	Scrapped	6	/ Unknown
ex N16ZE	2124	Conroy Albatross, Inc		,	
G353	HU-16E	New Smyrna Beach, FL	Probably Scrapped	6	Unknown
ex N333CV	2126	Charles Wootan	Trobably Scrapped	U	
	2120	Specialized Aircraft			
		Tucson, AZ			100
G371	HU-16E	Deregistered	Possibly Scrapped	° 6	Unknown
ex N7028L	1294	<i>Island Flying Boats</i> Western Intl Aviation			
		Tucson, AZ			
G394	HU-16C	Deregistered	Crashed	6	Restricted
ex N7026Y	137921	Robert F Carlson	Aircraft crashed and		Carriage of Cargo
	10,021		destroyed in Mexico		
G406	HU-16C	Stargazer Aero, Inc	Sunk in Atlantic	6	Restricted
N1955G	137933	,	Ocean S of		Carriage of Cargo
			Bermuda		Aerial Advertising
G412	HU-16C	Deregistered	Scrapped	6	Restricted
ex N265ES	141265	<i>James Doane</i> Opa Locka, FL			Aerial Surveying Carriage of Cargo
G418	HU-16C	Dea LOCKa, FL Deregistered	Crashed	6	Restricted
ex N70258	141271	Corsair Aviation Holdings	Fort Pierce, FL,	0	Aerial Surveying
2.1.7.0250	1112/1		Remainder		Carriage of Cargo
			Scrapped		
			Scrapped	<u> </u>	

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Appendix G

Inspection Requirements

In accordance with **FAR 91.409(e), (f), (g)** the Albatross requires an FAA Approved Inspection Program (AIP). Below is an excerpt of the relevant sections of FAR 91.409.

The following is from the FAA Website (partial content only). Refer to the FAA Website, Federal Aviation Regulations or other official sources for the most current and complete information.

- (e) Large airplanes (to which part 125 is not applicable), turbojet multiengine airplanes, turbopropeller-powered multiengine airplanes, and turbine-powered rotorcraft. No person may operate a large airplane, turbojet multiengine airplane, turbopropeller-powered multiengine airplane, or turbine-powered rotorcraft unless the replacement times for life-limited parts specified in the aircraft specifications, type data sheets, or other documents approved by the Administrator are complied with and the airplane or turbine-powered rotorcraft, including the airframe, engines, propellers, rotors, appliances, survival equipment, and emergency equipment, is inspected in accordance with an inspection program selected under the provisions of paragraph (f) of this section, except that, the owner or operator of a turbine-powered rotorcraft may elect to use the inspection provisions of §91.409(a), (b), (c), or (d) in lieu of an inspection option of §91.409(f).
- (f) Selection of inspection program under paragraph (e) of this section. The registered owner or operator of each airplane or turbine-powered rotorcraft described in paragraph (e) of this section must select, identify in the aircraft maintenance records, and use one of the following programs for the inspection of the aircraft:
- (1) A continuous airworthiness inspection program that is part of a continuous airworthiness maintenance program currently in use by a person holding an air carrier operating certificate or an operating certificate issued under part 121 or 135 of this chapter and operating that make and model aircraft under part 121 of this chapter or operating that make and model under part 135 of this chapter and maintaining it under §135.411(a)(2) of this chapter.
- (2) An approved aircraft inspection program approved under §135.419 of this chapter and currently in use by a person holding an operating certificate issued under part 135 of this chapter.
 - (3) A current inspection program recommended by the manufacturer.
- (4) Any other inspection program established by the registered owner or operator of that airplane or turbine-powered rotorcraft and approved by the Administrator under paragraph (g) of this section. However, the Administrator may require revision of this inspection program in accordance with the provisions of §91.415.

Each operator shall include in the selected program the name and address of the person responsible for scheduling the inspections required by the program and make a copy of that program available to the person performing inspections on the aircraft and, upon request, to the Administrator.

(g) Inspection program approved under paragraph (e) of this section. Each operator of an airplane or turbine-powered rotorcraft desiring to establish or change an approved inspection program under paragraph (f)(4) of this section must submit the program for approval to the local FAA Flight Standards district office having jurisdiction over the area in which the

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aircraft is based. The program must be in writing and include at least the following information:

- (1) Instructions and procedures for the conduct of inspections for the particular make and model airplane or turbine-powered rotorcraft, including necessary tests and checks. The instructions and procedures must set forth in detail the parts and areas of the airframe, engines, propellers, rotors, and appliances, including survival and emergency equipment required to be inspected.
- (2) A schedule for performing the inspections that must be performed under the program expressed in terms of the time in service, calendar time, number of system operations, or any combination of these.
- (h) Changes from one inspection program to another. When an operator changes from one inspection program under paragraph (f) of this section to another, the time in service, calendar times, or cycles of operation accumulated under the previous program must be applied in determining inspection due times under the new program.

