



Missions for America
Semper vigilans!
Semper volans!

The Coastwatcher

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16 JUN-Commander's Cup Rocket
Contest
16-18 JUN-LISP
19 JUN-TRCS Meeting
26 JUN-TRCS Meeting
04 July-Groton Parade (tentative)
08 JUL-EAA.WAA Pancake Breakfast-
Westerly Airport

14-15 JUL-SLS Windsor Locks
21 JUL-Celebrate East Lyme
4-5 AUG-CLC Windsor Locks
11-18 AUG-CTWG Encampment
19 AUG-Groton Airport Day
22 SEP-Preston Scarecrow Festival
25 SEP-Fruit Sale Starts
29 SEP-Glider Flights-Springfield, Vt.
06 OCT-Groton Fall Festival
11-12 OCT-UCC
11-14-CTWG/NER Conference
10 NOV-Cadet Ball
25 Dec/01 Jan-No Meetings

CADET MEETING

12 Jun, 2018

Cadets packed up for the Commander's Cup Rocket Contest

Capt Guilliams led a character development session exploring the relationship between leadership and friendship.

SENIOR MEETING

12 Jun, 2018

Officers worked on individual projects or received individual training.

Mr. Roderick Arpin brought in one of the old airborne radiological monitoring kit and showed officers some of its features.



Maj Bourque and SM Cantwell examine some of the radiological equipment set up by Mr. Arpin

**ACHIEVEMENTS, AWARDS,
PROMOTION, MISSIONS**

Promotion and Award Ceremony

Four cadets were promoted. Cadets Elizabeth Burton and Jillian Irvine received their Mary Feik achievement ribbons and promotions to Cadet Senior Airman.



The new C/CMSgt Munzner is given his new insignia.



*Lt Col Kinch
congratulates
C/SrAmn
Burton.*

Cadet Chief Master Sergeant Daniel Ramsey received the Neil Armstrong achievement ribbon.



C/CMSgt Ramsey is congratulated by Lt Col Kinch.

*Lt Col Kinch
and Lt Schmidt
pin on
C/SrAmn
Irvine's stripes.*



Cadet Rhys Thornell was awarded the Charles Lindbergh ribbon and promoted to Cadet Master Sergeant.

Senior Member Michael Kopycienski was awarded the General Charles Yeager ribbon for successfully completing the Aerospace Education Program for Senior Members.



*C/MSgt Thornell receives his new
stripes from Lt Thornell and Lt Col
Kinch.*

*SM Kopycienski received the
Yeager ribbon.*



Senior Member Michelle Martin was promoted to second lieutenant.

Cadet Christopher Munzner completed the Robert Goddard program and was promoted to Cadet Chief Master Sergeant.



SM Martin reporting.

AVIATION CURRENT EVENTS

Ultra Long Range Passenger Flights

Airlines are expressing an interest in studying the profitability of ultra-long haul routes. An ultra-long haul flight is considered to be 17 hours or more between city pairs.

Qantas now operates Boeing 787-9 service from Perth to London. Singapore Airlines is preparing to re-open its Singapore-New York run with the new Airbus A350-ULR and Air New Zealand is looking for an aircraft for an Auckland-New York connection.



787-9 at Kingsford-Smith Airport Sydney (Photo Credit: James Morgan/Qantas)

Most of the long distance routes are flown in Boeing 777 and 787 aircraft but Airbus is intending to deliver its first A350-ULR and Boeing is developing the 777-8x. According to Boeing, the -8x will be capable of 19 and 20 hour flights.



A350-900 ULR First Flight (Photo Credit: P. Pigeyre/Airbus)

Two issues need to be resolved. Passenger comfort will be an important

consideration for the ULR market and the ability to carry sufficient cargo.

As a historical note, during World War II, Qantas flew the double-sunrise route. The Japanese had taken Singapore and controlled the Dutch East Indies and large parts of the Indian Ocean. The Commonwealth needed a air connection for shipping critical cargo and important personnel. Five Consolidated PBYS were modified with extra fuel tanks and stripped of all non-essential equipment.



The five PBYS which flew the Double Sunrise Route were all named after first magnitude stars.

The service operated between Perth and Ceylon, later Karachi, the terminus of British Overseas Airways Corporation from Great Britain.

The distance was about 4,500 miles and the PBY cruised at 125 mph so a flight took from 27 to 32 hours depending upon the winds. The flights had to be timed to cross Japanese controlled territory at night so the crews got to observe two sunrises during the journey.



During the two years of operation, the Double-Sunrise Service made 271 crossings and delivered microfiched mail, cargo and 860 passengers. This averages out to about three passengers per flight. In terms of time, the Double-Sunrise Service holds the record for the longest, in respect to time, flights ever made.

First Raf Lightning IIs Reach Britain

The first four F-35Bs to be based in Britain landed at RAF Marham, this week. They have been assigned to the recently reactivated 617 Sqn, the historic “Dambusters.”

The flight from the United States was shepherded by two Airbus A330 Voyager tankers, took 8.5 hours, and required nine aerial refuelings.

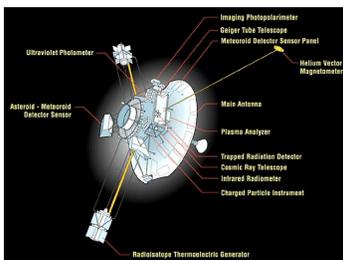


Photo Credit: Cpl. Time Lawrence, RAF/Crown Copyright)

The RAF and Fleet Air Arm now have 15 aircraft of a planed by of 138. At present, 11 of them are based at MCAS Beaufort or Edwards AFB where they are employed training new pilots or testing equipment.

AEROSPACE CHRONOLOGY & HISTORY

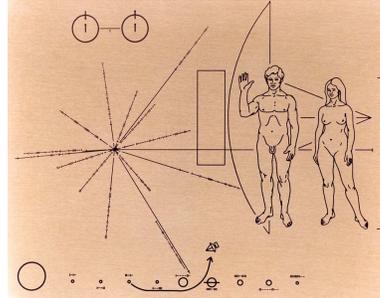
June 13, 1983 – Pioneer 10 becomes the first man-made object to leave the Solar System. Pioneer 10 was launched on March 2, 1972. Its interstellar trajectory takes it in the general direction of the star Aldebaran, about 68 light years away. ETA: 2 million years hence.



The flight was so far from the sun that plutonium radioisotopes were used for power rather than the more common solar panel array.

Pioneer 10 and her sister, Pioneer 11 are each carrying a gold-anodized aluminum plaque which contains information about our location and human life form. A nude male and female figure, scaled to the spacecraft outline and fundamental information about some fundamental physics and astronomy are also included.

The Plaque
(Photo Credits:
NASA/JPL)



Represented are a diagram of a special state of the hydrogen atom, the relative position of the sun in respect to selected pulsars, a figure of a man and a woman scaled to the size of the satellite, and a diagram of the solar system and the trajectory of the satellite.

Pioneer 10 has entered popular culture. In *Star Trek V: The Final Frontier*, a Klingon Bird of Prey commanded by Captain Klaa uses Pioneer 10 for target practice. He remarks that “Shooting space garbage is no test of a warrior's mettle.”

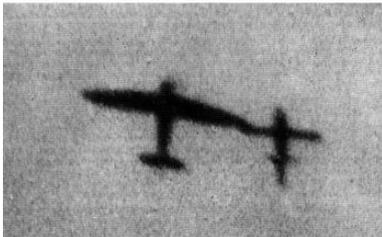
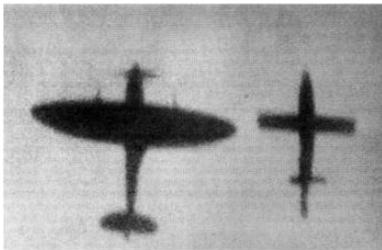
Given that radio and television signals travel at the speed of light, it may be possible that some intelligent extra-terrestrial species may have already gained knowledge of our culture. It is the opinion of the Coastwatcher that after watching showings or listening to the likes of Jerry Springer and the radio and TV soap operas, they will either forswear visiting us and quarantine our solar system so the Klingon destruction of Pioneer 10 is entirely justified.

June 14-15, 1944 – Flt. Lt. J.G. Musgrave and his observer, Flt. Sgt. F.W. Samwell, 605 Squadron, flying a DeHavilland Mosquito becomes the first pilot to shoot down a V-1 cruise missile. Musgrave was probably flying a FB.Mk. 6.

MK. 6 at the DeHavilland museum. Note the heavy armament, four .303 calibre machine guns and four 20 mm cannons beneath the nose.



More rare than the use of guns, sometimes a pilot would place his wing under that of the missile and roll away, forcing the missile to roll. At a relatively low angle of bank, the V-1's guidance gyros would tumble and it would crash.



The sequence of photos show a Spitfire using the wing tuck method to tip a V-1 and upset its gyros. (Photo Credit: IWM)

The following pieces of trivia will not be found in *Peephole Magazine* or any of the other check-out line rags and will be totally uninteresting to the community who are not enthralled by royalty but Peter Middleton flew Mosquitos with the 605th. He is the grandfather of the Catherine, Duchess of Cambridge, familiarly known as Kate to her fans. After the war, he flew for British European Airways.

One of 605's commanding officers was Peter Townsend who had been divorced. At the end of the war, he had a romance with Princess Margaret,

sister of the present monarch, and proposed. Alas, under the Church of England doctrine, a divorcee cannot marry while his ex-wife still lives and the princess and the pilot had to go their separate ways.

June 15, 1928 – Lts Karl S. Axtater and Edward H. White maneuver a blimp over an Illinois Central train bound from Belleville, Illinois to New Orleans, and transfer a mailbag to a railway clerk. The report of the flight list the difficulty of synchronizing the speed of the blimp and the train, crosswinds, and the presence of block signals and cross wires. This is the first instance of an aircraft to train mail transfer, a system not adopted by the U.S. Postal Service.

The blimp was a TC Class coastal patrol aircraft. The C-41 was the ship used for the mail transfer.



In 1930, the C-41 landed on the Washington Mall and the crew placed a wreath at the Lincoln Memorial honoring Lincoln's birthday.

Axater may have been a WWI fighter pilot. As a major, he was the first commander of the Army Air Corps base, Bourinquen in 1939 and there is a record of him as a colonel crash landing an AT-11 in 1951.

Edward H. White rose to the rank of Major General. His son, Astronaut Edward H. White II was the first American to walk in space and tragically died in the Apollo 1 fire. His second son, Major James B. White was killed when his F-105 crashed in Laos.

June 16, 1936 – The United States Coast Guard Cutter George W. Campbell (WPG-32) is the first Treasury-class cutter commissioned. The Treasury-class cutters are the first United States Coast Guard ships capable of carrying an airplane, commonly a Grumman J2F Duck, Curtiss SOC-4, or rarely, a Waco J2 W-1 seaplane).



*Curtiss SOC-4
Seagull in
Coast Guard
colors.*



*USCGC Duane with SOC on the aft
deck.*



*Seagull lifted
aboard USCGC
Bibb.
(Photo Credits: USCG)*

June 17, 1947 – Pan American World Airways launches a scheduled round the world civil air service. The first flight is eastward from New York to San Francisco.

Clipper America, a Lockheed 749 Constellation, departed New York's LaGuardia Airport with intermediate stops at Gander, Shannon, London, Istanbul, Dhahran, Karachi, Calcutta, Bangkok, Manila, Shanghai, Tokyo, Guam, Wake, Midway and Honolulu. *Clipper America* arrived in San Francisco on June 29th.



Clipper America

Pan Am did not have rights to fly domestic traffic so anyone wishing to complete the aerial journey had to book with another airline. *Clipper America* was then ferried back to LaGuardia via Chicago and landed on June 20th.

The flight was run in both directions as PanAm 001 and PanAm 002. An economy ticket cost 2,300 for one person or \$4,000 for a couple. That is closer to \$30,000 in today's money. The rules allowed passengers to disembark anywhere and remain as long as you wanted, resuming the journey when the flight passed through again. The only restriction was that the ticket was only good for 180 days.

One can make a similar trip today for about \$5,000-\$10,000 but not on a single airline. However, the airline alliances such as STAR and OneWorld make booking more convenient. You could also pay as you go, making separate booking for each of your stops. By choosing low price carriers and a judicious choice of stops, you can get under the \$5K cost.

June 18-20, 1937 – A Soviet Tupolev ANT-25 made a trans-polar flight and broke a world record covering 7,712 miles in 75 hours, 2 minutes. The flight originated in Moscow and terminated at Pearson Field, Vancouver, Washington.

*ANT-25 at Pearson
Field*

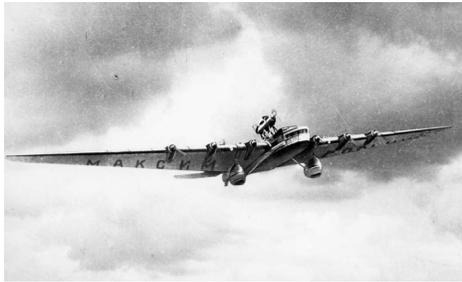


*Navigator
Alexander
Belyakov,
Pilot Valery
Chkalov, and
Co-Pilot
Georgiy
Baidukov*



Lindbergh's New York to Paris flight created an aviation mania with the public which continued into the depression years. The Soviet Union, in the grip of the ruthless Joseph Stalin, fostered technology, especially aviation, as a hallmark of socialist progress. Disastrous agricultural polices meant that Stalin could not give the masses bread but he could give them aerial circuses. Hugh aircraft such as the ANT-20, *Maxim Gorky*, and long distance flights

fulfilled this function. The aviation achievements not only were a sop to the proletariat but also a notice of Soviet strength.



The eight engine ANT-20 displays the unusual tractor-pusher arrangement on a pylon atop the fuselage.

The *Maxim Gorky* was one such example. At its time, it was the largest aircraft in the world and functioned as a flying propaganda machine. It carried a printing press capable of turning out 10,000 illustrated news handout per hour. These would be distributed upon landing. While on the ground, a portable movie screen was erected and films glorifying Soviet labor and production would be shown using a projector built into the aircraft. An on-board audio system allowed in-flight broadcasts audible over about four square miles. A small fleet of smaller aircraft were used to distribute propaganda to cities and villages not worthy of the attention of the *Maxim Gorky*.



In this Gustav Klutsis poster, a fictional fleet of ANT-20s soars over the joyous Soviet masses and a military formation as Joseph Stalin and one of his minions wave. The text reads “Long live our happy socialist motherland! Long live our beloved, the great Stalin!” The first four aircraft bear the names of Vladmir Lenin, Joseph Stalin, Maxim Gorky, and Mikhail Kalinin

(Photo Credit: Courtesy of Simanaitis Says.

But the *Maxim Gorky* was not destined to deliver the news, fake or otherwise. On the 18th of May, 1935, the Maxim Gorky and three fighters joined together for a demonstration flight over Moscow. One of the fighters performed two loops around the *Maxim Gorky* but collided on the third. One follow-up, the ANT-20bis was built and served as a transport during the Great Patriotic War until it crashed in 1942.



A Red Square celebration is a requirement of a great Soviet achievement. Here, the Maxim Gorky passes overhead escorted by two biplane fighters.

(Photo Credit: Von Hardesty NASM)

June 19, 1918 – Maj Francesco Barracca goes West. There is some controversy about whether he was shot down by an Austrian pilot or killed by ground fire. Baracca was the top scoring ace of the Italian Air Force in WWI with 34 kills. His personal emblem, a prancing horse which was adopted by the Ferrari racing team and auto manufacturer.

