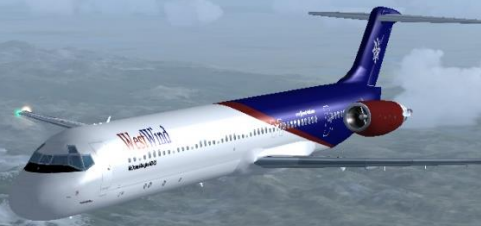


# WestWind Airlines

MAY 2021



WESTWIND

## THE WESTWIND JOURNAL

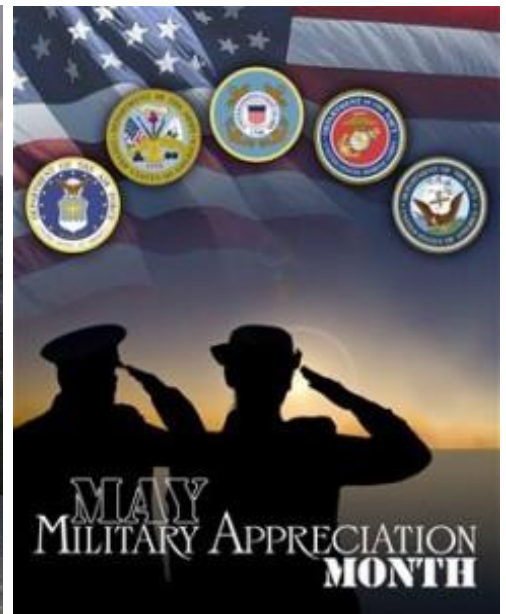
May 2021

Issue 21-05

WestWind Airlines



WWA2297



### WestWind Airlines April Flight Operations



WESTWIND

Total Flight Hours:	3282.4
Total On-Line Hours:	730.2
Total Off-Line Hours:	2552.2
Total Flights:	1121
Total PAXs:	87,295
Total CGO (lbs.):	22,164,161



### WestWind Airlines April Hub Rankings

#### On-Line

1. CYYC
2. KORD
3. KSEA
4. EGLL
5. YSSY
6. KMIA
7. KLAX
8. EHAM
9. KDEN
10. KCVG
11. KJFK
12. KATL
13. WSSS
14. KDFW

#### Off-Line

1. EHAM
2. KDFW
3. KLAX
4. KSEA
5. KDEN
6. KMIA
7. WSSS
8. KORD
9. KCVG
10. KATL
11. EGLL
12. KJFK
13. YSSY
14. CYYC

(All On-Line hours are verified @ VATSIM and/or IVAO)



WWA3592

## April's TOP WestWind On-Line Pilots

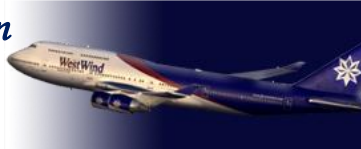
CYYC	Ron Oines WWA2894	227.6
EGLL	Bryan Sutherland	60.3
EHAM	Fred Koch WWA3631	21.0
KATL	Tom Griesbach WWA485	2.0
KCVG	Tim Maleski WWA215	13.6
KDEN	Larry Horton WWA3241	23.1
KDFW	NA	NA
KJFK	Dallas Manning WWA3602	14.2
KLAX	Phil Cohen WWA1573	16.4
KMIA	Scott D. Williams WWA1404	28.3
KORD	Chris Cramblet WWA3592	78.7
KSEA	Erwin Michael WWA2244	78.1
WSSS	Nathan Little WWA3151	2.1
YSSY	Andrew Wheeler WWA49	35.7

*Flying As Real As It Can Be*



(On-Line hours are verified @ VATSIM and/or IVAO)

*Promoting Aviation  
Through  
Simulation!*



## April's TOP WestWind Off-Line Pilots

CYYC	Scott Robinson WWA2660	13.9
EGLL	Johnny Kasimatis	81.2
EHAM	Hal Morse WWA3615	242.0
KATL	Mike Jones WWA3381	83.6
KCVG	Timothy Essex WWA3209	57.0
KDEN	Malcolm Meyer WWA71	65.2
KDFW	Edward Binger WWA2845	119.3
KJFK	Sean McConnell WWA659	21.0
KLAX	Paul Steele WWA3290	117.0
KMIA	Vincent Simmons WWA3477	82.6
KORD	Alan Morris WWA2969	37.7
KSEA	Terry Parthemore WWA829	91.0
WSSS	Bob Armer WWA3105	176.7
YSSY	Kenneth Hayes WWA2055	18.6

*Flying The Jetways Every Day*



Share a **Coke** with  
May 8, 2021 2300Z (1900E)



## WestWind Hubs – April Hours

**Amsterdam** (EHAM)

**Total Hours: 373.8**

On-Line: 27.8 / Off-Line: 346.0 / Flights: 117

**Atlanta** (KATL)

**Total Hours: 129.6**

On-Line: 3.0 / Off-Line: 126.6 / Flights: 51

**Calgary** (CYYC)

**Total Hours: 279.9**

On-Line: 251.4 / Off-Line: 28.5 / Flights: 68

**Chicago** (KORD)

**Total Hours: 314.3**

On-Line: 154.8 / Off-Line: 159.5 / Flights: 156

**Cincinnati** (KCVG)

**Total Hours: 154.9**

On-Line: 15.4 / Off-Line: 139.5 / Flights: 76

**Dallas/Ft. Worth** (KDFW)

**Total Hours: 303.0**

On-Line: 0 / Off-Line: 303.0 / Flights: 84

**Denver** (KDEN)

**Total Hours: 274.3**

On-Line: 23.7 / Off-Line: 250.6 / Flights: 121

**London** (EGLL)

**Total Hours: 143.5**

On-Line: 60.3 / Off-Line: 83.2 / Flights: 80

**Los Angeles** (KLAX)

**Total Hours: 325.7**

On-Line: 31.4 / Off-Line: 294.3 / Flights: 71

**Miami** (KMIA)

**Total Hours: 278.6**

On-Line: 32.3 / Off-Line: 246.3 / Flights: 90

**New York** (KJFK)

**Total Hours: 70.9**

On-Line: 14.2 / Off-Line: 56.7 / Flights: 37

**Seattle** (KSEA)

**Total Hours: 351.4**

On-Line: 78.1 / Off-Line: 273.3 / Flights: 103

**Singapore** (WSSS)

**Total Hours: 217.2**

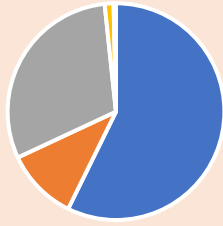
On-Line: 2.1 / Off-Line: 215.1 / Flights: 40

**Sydney** (YSSY)

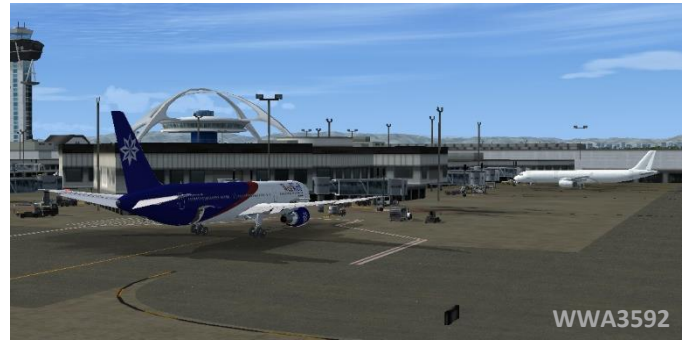
**Total Hours: 65.3**

On-Line: 35.7 / Off-Line: 29.6 / Flights: 27

## WestWind April Flights



■ PAX ■ CGO ■ CHTR ■ TNG ■ Maint/Test/Mgmt



## Top WestWind Passenger Hub

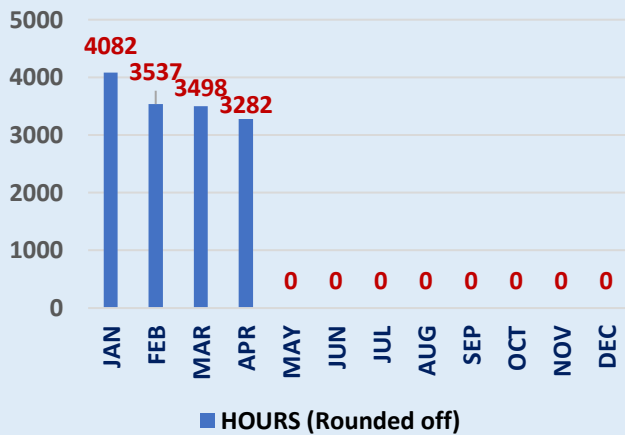
April 2021



**The Amsterdam Hub**

11,314 PAX Carried

## WestWind 2021 Flight Hours



## Top WestWind Cargo Hub

April 2021



**The Calgary Hub**

4,201,334 lbs. CGO Hauled

## WestWind Airlines



## Newest Pilots - April 2021

- No new pilots during April 2021 -

Please welcome these new WestWind Pilots and show them why WWA is the best virtual airline out there!





# THE WESTWIND JOURNAL

May 2021

Issue 21-05

WestWind Airlines



## WestWind Screenshot Competition

Selected by WestWind Pilots  
every month!

### April 2021 Winners

Vince Storelli WWA1116

Martin Douglas WWA3620

Phil Cohen WWA1573



CYEG MAY 2 KPDX

## THE SECOND BEST AIRPORT CROSSFIRE

VATSIM

1300-1700 PST  
2100-0100 ZULU

CZEG EDMONTON Seattle ABTCC



May 31, 2021



Virtual Air Traffic Simulation Network (VATSIM) is a nonprofit organization that operates an online flight-simulation network noted for its active membership and realism. Members can fly as pilots or direct traffic as air traffic controllers, participating in what has been described as a close approximation of real-life aviation procedures.

Members: +700,000 (+100,000 active in the last 3 months)



Membership is Free! Make your flights 'As Real As It Can Be'.

## Monthly Local Area Time

Seattle (KSEA), Washington, U.S.A.

Local Time: 1:00 P.M.

Zulu Time: 2000Z



**United States National Military Appreciate Month** falls in May each year. As its title suggests, this observance is meant to raise awareness and encourage celebration and appreciation of those who currently serve and those who have served – in the armed forces for their country.

Every role in each military branch is honored this month, from the foot soldier to the Navy Chef, from the Air Force navigator to the Army General. This month is also meant to show appreciation for the families of servicemen and women, who tirelessly stand by and support their serving relative.

Of course, Military Appreciation Month also honors the memory of military personnel who sacrificed their safety and ultimately their lives for their nation, and the war veterans of wars gone past who have now passed on.



U.S. Army – CH-47D



WWA3592



WWA1116



**ATC:** "N123YZ, say altitude."

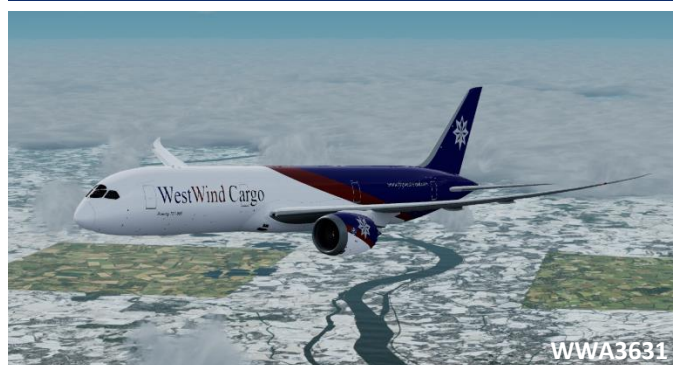
**N123YZ:** "ALTITUDE!"

**ATC:** "N123YZ, say airspeed."

**N123YZ:** "AIRSPEED!"

**ATC:** "N123YZ, say cancel IFR."

**N123YZ:** "Ten thousand feet, one hundred seventy knots indicated."



WWA3631





WestWind



## The Answer to the April Question

### Question of the Month

**The Question:** How long can I expect to be in a holding pattern and what information do I need?

**The Answer:** Holding patterns are flown as a delaying tactic, be it for ATC requirements such as airspace saturation or approach delays, as the published termination of a missed approach procedure to be flown whilst coordinating further clearance, at pilot request to allow time for completion of abnormal or emergency checklist procedures or at any other time that a delay in flight progress is required. Under Instrument Flight Rules (IFR) pilots are expected to adhere to proscribed holding procedures inclusive of speed, hold entry procedures, timing and rate of turn, as the protected airspace for the holding pattern, and thus separation from other traffic, is predicated on those procedures.

A holding clearance issued by ATC will include at least the following items:

- A clearance to the holding fix.
- The direction to hold from the holding fix.
- A specified radial, course, or inbound track.
- If DME is used, the DME distances at which the fix end and outbound end turns are to be commenced (hold between [number of miles] and [number of miles]). If the outbound DME is not specified by ATC, pilots are expected adhere to the standard holding pattern timing procedures above.
- The altitude or FL to be maintained.
- The time to expect further clearance or an approach clearance or the time to leave the fix in the event of a communications failure. **DO NOT** except a holding clearance without a time to expect 'further clearance', 'approach clearance' or 'time to leave hold'.

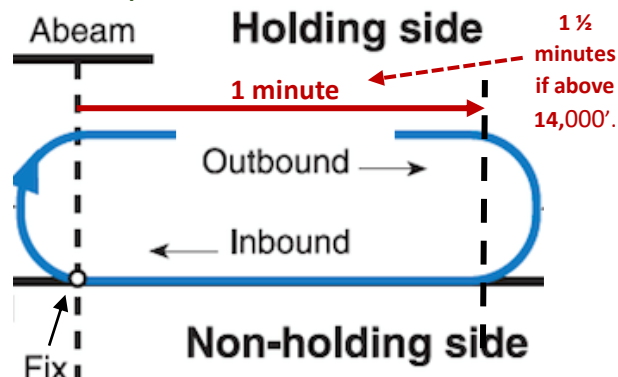
#### Holding Speeds:

- o Holding altitude 14000' or below - 230 KIAS
- o Holding altitude above 14000' to 20000' - 240 KIAS
- o Holding altitude above 20000' to 34000' - 265 KIAS
- o Holding altitude above 34000' - Mach .83
- o Holding patterns restricted to Category A and B aircraft only - 170 KIAS

**Leg Times:** At or below 14000, each leg (after the turn and wings are level) should be flown for 1 minute, then begin your next holding turn. Above 14000, each leg should be 1 1/2 minutes.

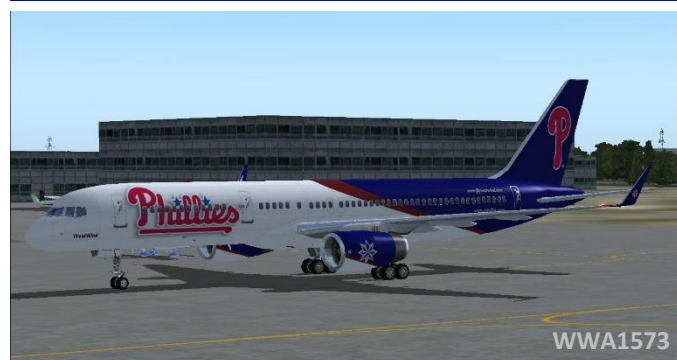
Once the pilot receives ATC clearance specifying the time of departure from the holding fix, adjustments should be made

to the flight pattern within the limits of the established holding pattern to leave the holding fix as close as possible to the time specified. After departing a holding fix, pilots should resume normal speed.



01-02 May Wings Over South Texas, Corpus Christi, TX  
 08-09 May Defenders of Liberty Air Show, Barksdale AFB, LA  
 15-16 May Wings Over Atlanta, Marietta, GA  
 21-23 May Oregon International Air Show, Hillsboro, OR  
 29-30 May Miami Beach Air & Sea Show, Miami Beach, FL

**May 2021 Airshows**



**VATSIM** May 12  
**Milk Run Monday**  
0730z - 1130z  
YSSY, YSCB, YMML, YSCB  
Photo | Joshua M

**Blue Angeles**  
May 2021 Show Schedule

May 1-2 Wings Over Texas, NAS Corpus Christi, TX  
May 8-9 Fort Lauderdale Air Show, Fort Lauderdale, FL  
May 15-16 Great Florida Air Show, Melbourne, FL  
May 26-28 USNA Flyover, Annapolis, MD  
May 29-30 Westmoreland County Air Show, Latrobe, PA




**Honk! 2** Get your groove on  
ELECTRIC HONK-A-LOO  
MAY 29TH  
7pm-11pm ET  
(2300-0300Z)

Featuring:

CYYZ CYUL CYHZ  
KBWI KDTW KBOS KPHL




**VATSIM**

Boston ARTCC, ZDCARTCC, Cleveland ARTCC, CZYZ, CCM, CZUL



**WestWind Airlines**  
Select May On-Line Flight Events

May 2	KPDX, CYEG KOMA	2100Z-0100Z 2300Z-0300Z
May 4	KTYS	Begins 2359Z
May 7	YBBN, YBWW, YBVC, YSGE, YROM ZID, ZDC, ZNY	0700Z-1100Z 2300Z-0300Z
May 8	<u>KATL</u>	Begins 2300Z
May 12	<u>YSSY</u> , YSCB, YMML	0730Z-1130Z
May 14	SKBO	2300Z-0100Z
May 15	<u>KLAX</u> , KSAN, KSFO, KOAK, KFAT	2300Z-0300Z
May 16	<u>KAUS to KSPI</u> <b>WWA Group Flt</b>	<b>Dept - 1900Z</b>
May 19	<u>EGLL</u>	1700Z-2000Z
May 21	<u>KMIA</u> , KTPA, KFLL, KMCO, KJAX, TJSJ MDPC, TNCM	2300Z-0300Z
May 22	<u>KDEN</u> , MMMY	2359Z-0400Z
May 23	<u>KSEA</u> , KPDX	1500Z-1900Z
May 29	KBOS, KBWI, KPHL, KDTW CYYZ, CYUL, CYHL	2300Z-0300Z

**VATSIM**



Boeing is apparently beginning to think about what comes next. The Wall Street Journal reported that the company has held preliminary discussions with various parties about a new single-aisle aircraft with efficient engines able to carry between 200 and 250 passengers.

The discussions come as the pandemic has crimped demand for air travel and brought international travel largely to a standstill. As airlines slowly recover, they are expected to focus primarily on smaller, single-aisle planes like the MAX, and this new plane could slot in well for domestic and international routes that don't need the full capacity of a larger 777 or 787 double-aisle jet.



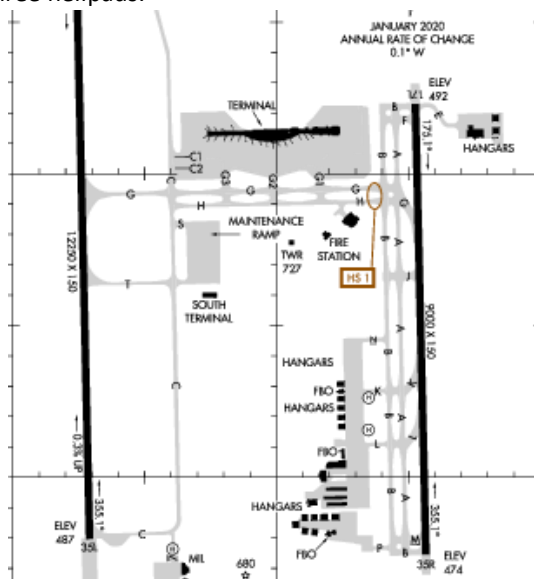


## WestWind Journal's FEATURED AIRPORT



Austin-Bergstrom  
International Airport

**Austin-Bergstrom International Airport** or ABIA (IATA: AUS, ICAO: KAUS, FAA LID: AUS, formerly BSM) is a Class C international airport in Austin, Texas, that serves the Greater Austin metropolitan area. Located about 5 miles southeast of downtown Austin, it covers 4,242 acres and has two runways and three helipads.



It is on the site of what was Bergstrom Air Force Base. The airport and U.S. Air Force base were named after Captain John August Earl Bergstrom, an officer who served with the 19th Bombardment Group during World War II. The airport replaced Robert Mueller Municipal Airport as Austin's main airport. It is the third busiest in Texas after Dallas (KDFW) and Houston (KIAH).



WWA3615

## Brunch with the Seattle Bunch

KSEA, KPDX

May 23

1500Z-1900Z



WWA3592

## WestWind & VATSIM

If you are not flying on VATSIM, you should start! It really adds to the realism and also fosters proper procedures! Join the rest of **WestWind** on-line pilots to help put **WestWind** back on the On-Line Flying Map! There also is a large number of VATSIM events each month to take part in all over the world, not to mention **our own** **WestWind** monthly VATSIM Fly-In every month! And the more **WestWind** pilots we can get flying regularly on VATSIM, the better our chance of arranging to have ATC at our monthly fly-ins!

So, join the fun and fly VATSIM, it's totally free and don't be surprised if you gain some knowledge along the way!

VATSIM As Real As It Can Be





# Rolls-Royce

## The World's Largest Aircraft Engine Is Underway

Rolls-Royce has announced construction of its **UltraFan** engine. The fan is over 11 feet across and made of carbon titanium blades and saves a neat 25 percent emissions over Rolls-Royce's Trent turbofan.

Rolls-Royce has started work on its UltraFan aero engine. The gigantic fan engine gets 25 percent better mileage compared with its predecessor, and Rolls-Royce says it will revolutionize passenger and cargo flight around the world. The first demonstrator engine will be finished by the end of 2021 Rolls-Royce revealed.



"As engine build starts, other key parts are already coming together for delivery to Derby, England. Work is underway on UltraFan's carbon titanium fan system in Bristol, UK, and its 50MW Power Gearbox, which is powerful enough to run 500 family cars, in Dahlewitz, Germany." UltraFan is a gas turbine turbofan, meaning it's gas-powered and operates using a traditional spinning prop fan—in this case, a fan that's more than 11 feet in diameter. The design is the first in a brand-new line of turbofans that seeks to replace Rolls-Royce's iconic Trent line of turbofans, which have operated since 1990.

The UltraFan's enormous size pairs with Rolls-Royce's state-of-the-art core and the ALECSys lean burn combustion system to help keep emissions as low as possible for a gas-powered jetliner. The UltraFan may be huge, but it also reduces the weight of an aircraft by 1,500 pounds because of space age materials and careful design. These materials include advanced ceramic matrix composite parts and carbon titanium fan blades that are ultra-strong while keeping weight down.



FRIDAY, MAY 21, 2021  
2300-0300Z



III POINTS FNO

### SOUTH FLORIDA STAGE

TAMPA INTERNATIONAL (KTPA)  
FT. LAUDERDALE INTL. (KFLL)  
MIAMI INTERNATIONAL (KMIA)

### NORTH FLORIDA STAGE

ORLANDO INTERNATIONAL (KMO)  
JACKSONVILLE INTL. (KJAX)

### CARIBBEAN STAGE

SAN JUAN INTERNATIONAL (TJSJ)  
PUNTA CANA INTL. (MDPC)  
PRINCESS JULIANA INTL. (TNCM)



## WestWind



## Question of the Month May 2021

**The Question:** Is being on flight following enough to enter Class B, C, and D airspace? Or do I need a clearance?

-Discuss this in the Forum-



## WestWind Airlines 2<sup>ND</sup> QUARTER GROUP FLIGHT

WestWind  
On-Line Operations  
and Events  
**APPROVED**



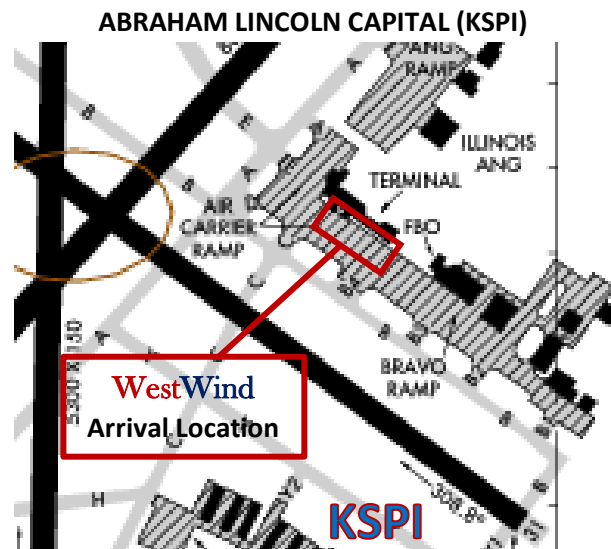
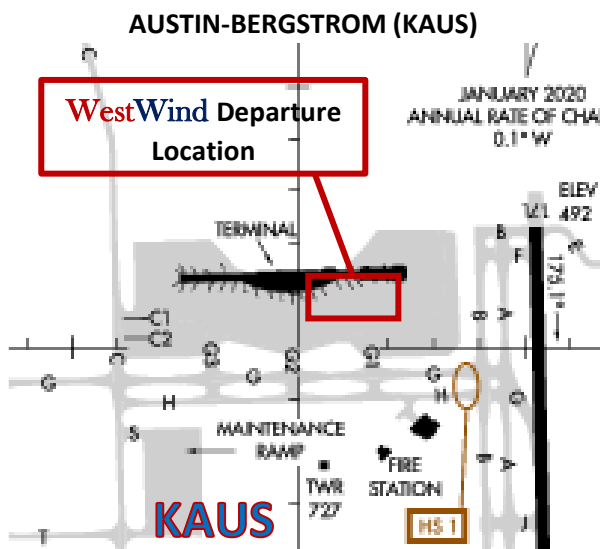
**Sunday May 16, 2021**

**Austin-Bergstrom Texas KAUS to Abraham Lincoln Capital Illinois KSPI**

**Departure from KAUS: 1900Z**

**Approximate gate to gate time: 1.8**

**Don't miss out! Be there for an enjoyable flight with fellow WWA Pilots!**







## Amsterdam (EHAM)

Eric Clapton

May 1 The Allman Betts Band Melkweg OZ

May 23 Kosheen Q-Factor Hotel

## Atlanta (KATL)

May 2 Riverdance Synchronicity Theatre

May 8 Corey Smith Coca-Cola Roxy

## Calgary (CYC)

May 22 Jacques Palace Theatre

May 29 Symphony X The Gateway

## Chicago (KORD)

May 6 Dean Friedman Theatre Y

May 12 The Garden Bottom Lounge

## Cincinnati (KCVG)

May 6 Darius Rucker Elder High School

May 20 Carol Burnett Aronoff Center

## Dallas/Ft. Worth (KDFW)

May 2 Miranda Lambert Billy Bob's Texas

May 26 David Crosby Granada Theater

## Denver (KDEN)

May 9 Brian Culbertson Paramount Theater

May 14 Whiskey Myers Mission Ballroom

## London (EGLL)

May 6 Sam Sweeney Kings Place

May 18 Lola Young The Jazz Cafe

## Los Angeles (KLAX)

May 1 John Waters Luckman Fine Arts

May 24 A-Ha Band The Wiltern

## Miami (KMIA)

May 7 ERIC Flores Churchill's Pub

May 20 Ricky Valido Bar Nancy

## New York (KJFK)

May 3 Ariel Pink Le Poisson Rouge

May 8 They Might Be Giants The Bowery Ballroom

## Seattle (KSEA)

May 4 Louis Tomlinson Seattle Theatre

May 14 Russell Howard Neptune Theatre

## Singapore (WSSS)

May 2 Crazy P Rooftop Terrace

May 8 Fast Eddie & Slowpokes The Globe

## Sydney (YSSY)

May 2 Carole King State Theatre

May 23 Eric Clapton The Vangaurd



## COOL HISTORY

In the summer of 1969, hundreds of thousands of people descended on a small dairy farm in Bethel, New York for a watershed moment in music history: The Woodstock Music and Art Fair. The four-day festival was a celebration of peace, youth, life, love, long hair and incredible music. However, the festival might have ended in disaster, were it not for an unexpected ally.

Recently returned home from the Vietnam War, Clark Stahl was a 23-year-old U.S. Army Chief Warrant Officer 2 who'd flown medevac missions in Vietnam. On Friday, Aug. 15, 1969 he was tasked to fly a UH-1H with medical personnel and supplies into Woodstock. As he made the first of several flights in and passed over the festival site, John Morris, the production coordinator for the festival, who was onstage when Stahl's helicopter came into land announced, "Ladies and Gentlemen, the United States Army and the Medical Corps".





## WestWind On A Tuesday Morning



April 6 @ 1500Z

Call sign	Pilot	Origin	Dest.	Aircraft	Route
WWA2244	Erwin Michael KSEA	Kahului Airport, Kahului, Hawaii, USA (PHOG)	San Diego International Airport (Lindbergh Field), San Diego, California, USA (KSAN)	C700/L	EBBER R577 ETECO FOOTS R578 FICKY C1177 SXC COMIX2
WWA2894	Ron Oines KATY	Maputo International Airport, Maputo, Mozambique (FQMA)	Roberts International Airport, Harbel, Republic of Liberia (GLRB)	H/B748/L	PKV T433 XARMA UT433 ETMIT UP303 MNV UT433 AGRAM UT941 VNA UA400 AD UB600 RITAM RITAM
WWA3311	Gerald Spiers CYYC	Tampa International Airport, Tampa, Florida, USA (KTPA)	Key West International Airport, Key West, Florida, USA (KEYW)	E55P/L	GANDY8 SABEE KARTR GIGIH
WWA3592	Chris Cramblet KDFW	Vancouver International Airport, Vancouver, British Columbia, Canada (CYVR)	Los Angeles International Airport, Los Angeles, California, USA (KLAX)	H/B742/W	YVR3.IMP OR CVV J5 SEA J65 LMT J189 AVE.SADD E8



The development of the precision flight team, the **WestWind Eagles** has been halted. The complete lack of interest by pilots to participate and join the team is the cause of its termination. "I'm extremely disappointed and saddened that our pilots did not want to learn new skills and experience the thrill of precision tight formation flight and maneuvers. It is a loss to not only our pilots, but to **WestWind** as a whole!" said the Team Lead Chris Cramblet WWA3592.

Two pilots did join the Team however one had resigned.

It is greatly appreciated that the **WestWind** Executive Committee, after a long review, approved the development of the team.



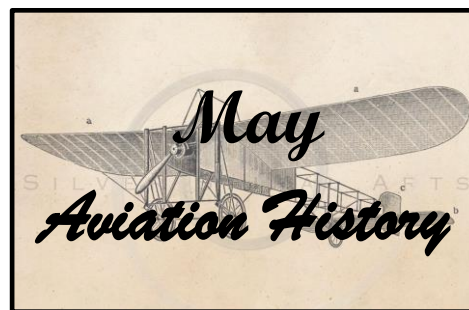
This Month The **WestWind** Journal  
Salutes The Aviators of the



**Presidential Airlift Group**  
**89th Airlift Wing**







**1 May 1942**



USSR - Squadron No. 588 of the Soviet Air Force, an all-woman night-bombing unit equipped with Polikarpov Po-2 biplanes, is formed in the USSR.

**7 May 1958**



USA - Lockheed F-104A "Starfighter" sets altitude record for aircraft of 91,243 feet.

**19 May 1959**



USA - The first Boeing 707-436 "Intercontinental," destined for British Overseas Airways Corporation (BOAC) makes its maiden flight, landing at Boeing Field, Seattle, after 1 hour, 11 minutes in the air. BOAC ordered 15 "Intercontinentals" in 1956.

**5 May 1961**



USA - Commander Alan B. Shepard, Jr., United States Navy, becomes the second man to explore space when he rides his Mercury "Freedom 7" capsule, launched by a Redstone missile, to 115 miles above the Earth. It was three weeks after Yuri Gagarin's first manned space flight.

**31 May 1995**



USA - The first flight of the Schweizer RU-38A "Twin Condor" long-range surveillance aircraft takes place in Elmira, New York.



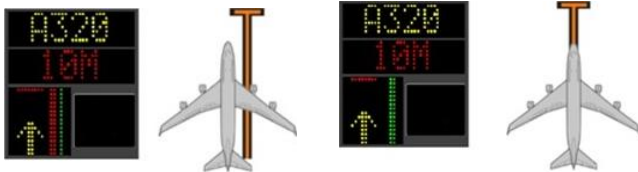
## Gate/Stand Guidance Systems

### AGNIS



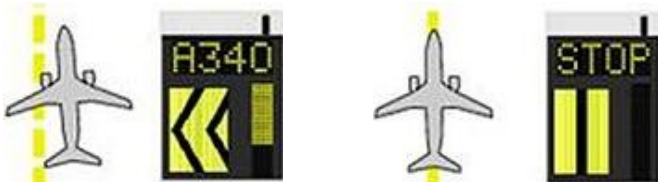
If the pilot is on the stand centerline, they will see two green lights. If they are off centerline, one of the lights will appear red and the pilot then steers towards the green one. AGNIS alone provides only azimuth guidance, it does not inform pilots when they should stop. It is relatively imprecise but cheap to implement and reliable.

### RLG



The RLG GIS-206 uses lasers to determine the position of the aircraft, subsequently displaying the distance the aircraft must go as well as showing an Azimuth guidance.

### APIS

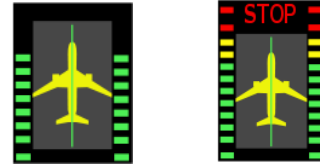


The left side of the unit displays Azimuth guidance; providing the pilot with vital information when as far as 200 meters (660 ft) from the stand and while the aircraft is still perpendicular to the stand centerline. The right side of the unit gives the pilot precise information concerning closing rate as well as instructions when to stop.

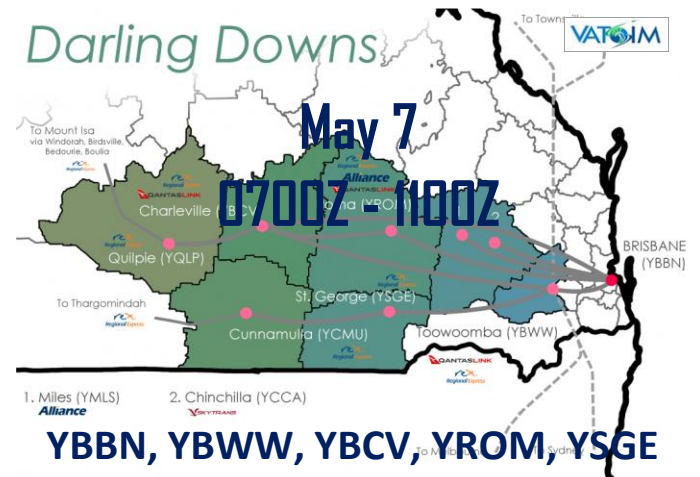
The azimuth guidance, based on the Moiré Pattern works independently of the laser that calculates distance to stop and is unaffected by weather conditions. The laser, which has a pulse frequency of 9.6 kHz and a resolution of 1 centimeter (0.39 in), ensures that the pilot can stop in the exact stopping position.

The system can be connected with the passenger boarding bridge, apron management system or other airport systems via TCP/IP or Ethernet connections. It can also be equipped with a back-up traffic light system.

### ADB



The green lights on the left and right of the display will begin to appear, from bottom to top, as the aircraft gets closer to the stop line. The green centerline on the display moves smoothly left and right to accurately indicate how far away from the centerline an aircraft is.





## WestWind Monthly Pilot Awards



**May 2021**

(These awards are for activities of the previous month)



**On-Line Pilot of the Month**  
**Bill Ienatsch WWA1033**

**Off-Line Pilot of the Month**  
**Alan Morris WWA2969**

No Other WWA Hubs Reported Monthly Awards

**Hub Managers!**  
**Recognize and Submit your TOP pilots each month!**

## Calscream XXI

**KLAX, KSAN, KSFO, KOAK, KFAT**

**May 15 2300Z-0300Z**



### TYPES OF WEATHER FRONTS

#### COLD

COLD AIR REPLACES  
WARMER AIR AT THE  
SURFACE

#### WARM

WARM AIR REPLACES  
COOLER AIR AT THE  
SURFACE

#### STATIONARY

FRONT IS STALLED  
OR MARGINALLY  
MOVES

#### OCCCLUDED

COLD FRONT  
OVERTAKES A WARM  
FRONT



WWA3400



WWA3592



## Aircraft and In-Flight Icing

**A**irframe Icing can lead to reduced performance, loss of lift, altered controllability and ultimately stall and subsequent loss of control of the aircraft.

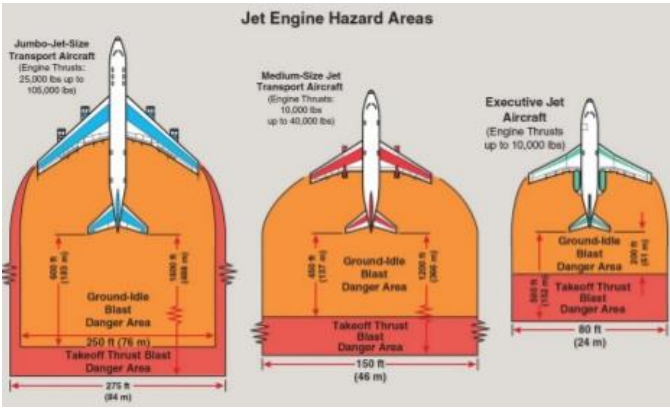
Ice accretion on critical parts of an airframe unprotected by a normally functioning anti-icing or de-icing system can modify the airflow pattern around airfoil surfaces such as wings and propeller blades leading to loss of lift, increased drag and a shift in the airfoil center of pressure. The latter effect may alter longitudinal stability and pitch trim requirements. Longitudinal stability may also be affected by a degradation of lift generated by the horizontal stabilizer. The modified airflow pattern may significantly alter the pressure distribution around flight control surfaces such as ailerons and elevators. If the control surface is unpowered, such changes in pressure distribution can eventually lead to uncommanded control deflections which the pilot may not be able to overpower.



Partial or complete blockage of the air inlet to any part of a pitot static system can produce errors in the readings of pressure instruments such as Altimeters, Airspeed indicators, and Vertical Speed Indicators and computer systems. The

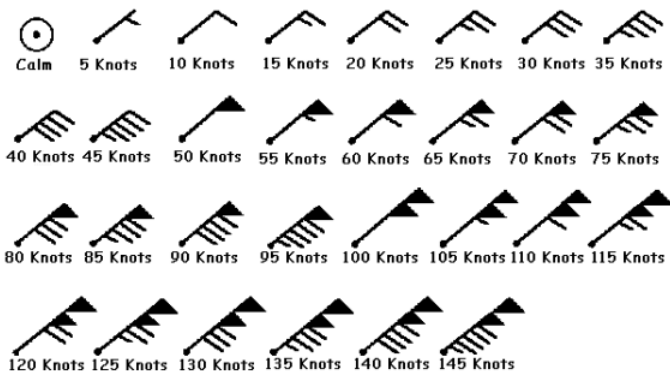


most likely origin of such occurrences to otherwise serviceable systems has been the non-activation of the built-in electrical



**Beech Baron:** Uh, ATC, verify you want me to taxi in front of the 747.

**ATC:** Yeah, it's OK. He's not hungry.





heating which these tubes and plates are provided with, although in some cases, the detail design of pitot heads has made them relatively more vulnerable to ice accretion even when functioning as certificated. It is now also recognized that the effects of high-level ice crystal icing can have what are usually transient effects on the effectiveness of normally functioning pitot probe heating.

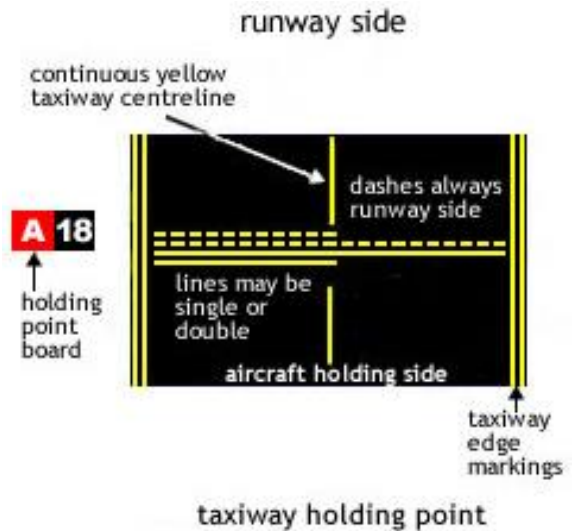


Ice shed during in-flight deicing is not of a size which could create a hazard should it survive in frozen form until reaching the ground below. However, there has been a long history of ice falls from aircraft waste drain masts, a few of which have caused minor property damage and occasionally come close to hitting and injuring people. The drain masts involved are those from aircraft galleys or toilet compartments which are normally heated to prevent ice formation but for some reason have not been operating as intended. Ice from toilet waste masts is often referred to as "blue ice". Most of these events have been recorded where there is a high density of long-haul commercial air traffic inbound to a large airport which routinely overflies a densely populated residential area as it descends below the freezing level in the vicinity of the airport.

For any aircraft type which is certificated for flight in icing conditions, the AFM or POH will contain a manufacturer's definition of the threshold for 'Icing Conditions' for the purposes of the selection or activation of ice protection equipment. This is usually given as the presence of visible moisture and an Outside Air Temperature (OAT), Static Air Temperature (SAT) or Total Air Temperature (TAT) reading of less than a figure between +3°C and +10°C. Operation of anti-icing systems is never based upon the appearance of visible ice or on the flight deck annunciation of external ice detector activation, although deicing systems may be. Visible moisture can be defined as flight in clouds, fog with visibility of 1500m or less, and precipitation. On the ground this can include standing water, slush or snow present on the taxiways or runways.

Consideration should also be given to the aircraft angle of attack during climb-out in icing conditions. A high angle of attack may result in ice forming aft of its leading edge, possibly to areas where there is no de/anti-ice system present.

**When Temperature and Conditions Dictate = Anti Ice!  
Turn On The Anti-Ice Systems!**



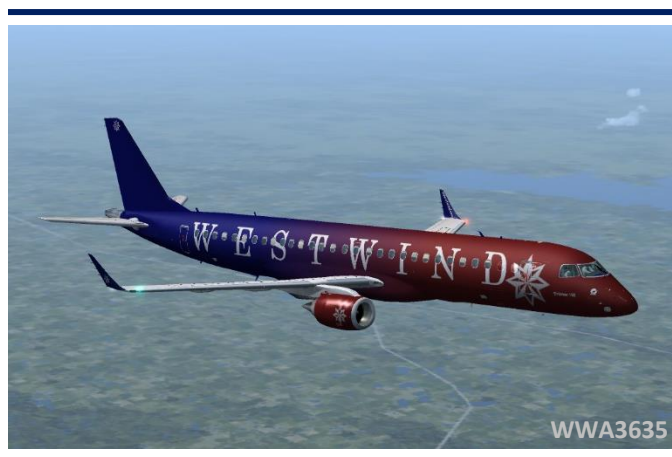
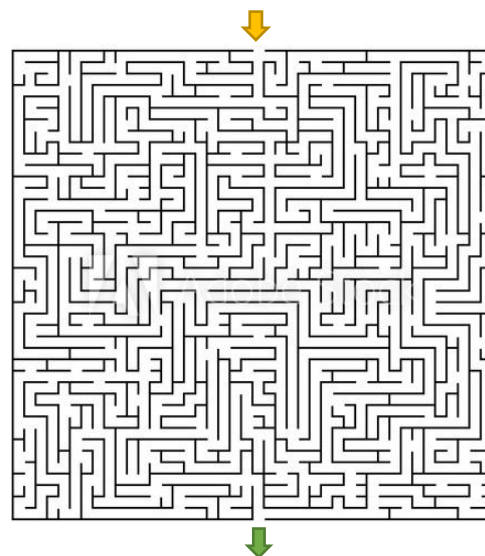
## Turbofan/Jet Engine Run-Up

The term run-up is used to describe the operation of some or all of the engines of an aircraft, while on the ground, for the purpose of functionally checking the operation of engines or aircraft systems. Maintenance will perform engine run-ups after an engine part has been changed, to verify its operating properly, or to verify a pilot discrepancy.



Most of the time, engine runs are done at idle power. Idle runs can be done at the gate. Engine checks that involve temporarily advancing the throttles to ensure that engines are capable of producing take-off thrust, must be done at a run-up area, a location at an airport where pilots can perform run-up checks of their aircraft. They exist because the blast from engine verification may cause problems for other aircraft or structures and so a special area where such checks will do no harm is set aside for them. They also allow aircraft to temporarily leave taxiways so that they do not obstruct other ground traffic while the run-up is performed. For these reasons, run-up areas are typically located near runways or major taxiways.

If flying on-line and you are going to do a high-power run-up, coordinate with ATC.



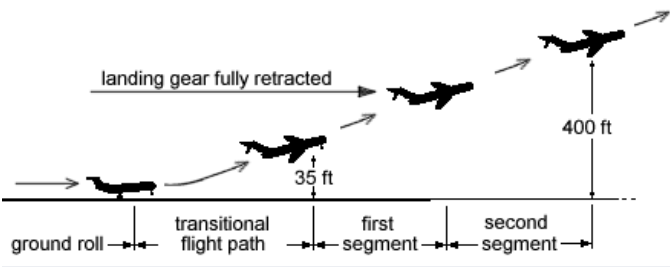
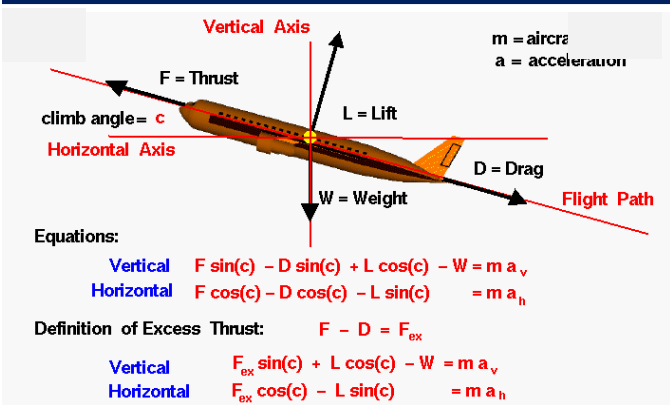
## Boeing B-50



This Boeing B-50 Superfortress RC model was known as the largest flying RC aircraft on record. The owner built the entire thing in his garage to scale. It has a wingspan of 20 feet from tip to tip! There are a few downsides to owning the world's largest RC aircraft. For one, the price. Tony (the owner) says the plane cost him around \$10,000 to build. Second, it only flies for 8 minutes on a full charge and third, it's a major hassle to transport.







SEPTEMBER 24-26, 2021

TOWN AND COUNTRY RESORT • SAN DIEGO, CA, USA

A Hybrid In-Person and Online Event

In-person and online, the promoters are excited to connect simmers, developers, exhibitors, and real-world aviators from across the globe this September! Attendees, companies, speakers, and media partners will all have options for participating in-person or joining the event online.

At FlightSimExpo, attendees have endless opportunities to network with the people behind their favorite flight simulation titles, put names and faces to voices, and build lasting connections that transcend the online world. From the conference's dedicated mobile app to the event social, there will be plenty of opportunity to get out of the basement and into a group of like-minded enthusiasts.

At FlightSimExpo, flight simulation hardware and software developers bring plenty to try out. Virtual reality demonstrators, 4K displays, full-cockpit panel setups, and the latest in technology will all be on display throughout the weekend. Get hands-on, up close, and personal with the best the simulation world has to offer and see how it all works before making it part of your own setup.



More details to come!



A picture of the NASA Helicopter shadow on MARS, taken from the helicopter at a 10-foot hover.

The 1<sup>st</sup> take-off and landing on another planet completed by a counter rotor Helicopter!

## WestWind FORUM

Check out and use the Forums!

### THE WESTWIND JOURNAL

#### Screenshot Credits - Issue 21-05



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This concludes the May 2021 issue (21-05) of  
THE WESTWIND JOURNAL  
We hope that you have enjoyed it and found  
some useful information as well.

### - THE WESTWIND JOURNAL -



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## MEMORIAL DAY

★ HONORING ALL WHO SERVED ★