



EAA 288

AGENDA



- Brief background
- Extra Aircraft USA
- 2023 World Advanced Aerobatic Championships



BACKGROUND

- Aerospace Engineering Degree out of Penn State
 - Beech Aircraft – King Airs & Premier 1
 - Fairchild Dornier – 728 airliner
 - Bombardier – Global Express
 - Adam Aircraft – A700
- Wind Turbines
- MD Helicopters
- Best for last – Extra Aircraft USA
- 1800 hours of flight time ~1000 in the Extra
- Compete in the Advanced Category
International Aerobatic Club (IAC)



FLYBY
FEATURED PHOTO

WHAT

Duncan Koebel, EAA 1167189, flying his Extra 300 at sunrise past the Flatirons.

WHERE

Boulder, Colorado

PHOTOGRAPHER

Julia Apfelbaum

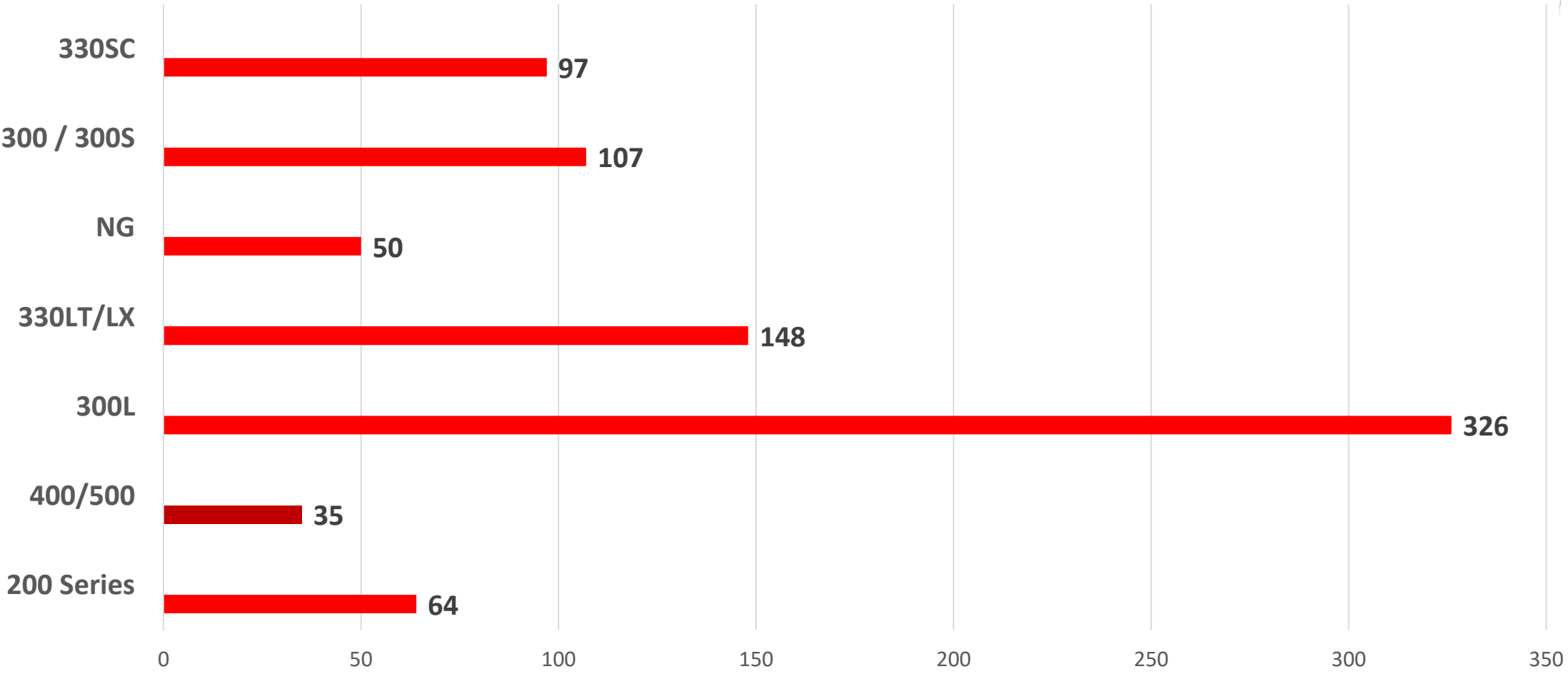
FLYBY WORTHY?

Calling all photographers: Do you have a photo that you think should be showcased in *EAA Sport Aviation*? We want to see it! Share your photo with us using the form at www.EAA.org/submissions.

COME SEE US AT DELAND



EXTRA AIRCRAFT - 40+ YEARS OF HISTORY



Over 800 Aircraft Delivered

WHY DELAND? WHY NOT...

- Extra Aircraft family ownership continuing to the next generation
- Long and successful partnership with SE Aero in St. Augustine
- View toward the next generation migrate to a 'factory direct' model
- Sell the new aircraft in the USA – then assembly and deliver after shipping
- Maintenance from A-to-Z
- Spare parts
- Tech pubs

NG – NEXT GENERATION

- Bring the fuselage classic steel truss construction to carbon fiber
 - Upgrade everything along the way
- Competitive in Unlimited
- More to Come – 2024 Model



EXTRA NG



AIRCRAFT DIMENSION

wingspan	27.2 ft / 8,30m
length	23.3 ft / 7,11m
height	8.3 ft / 2,52m
wing area	117.3 ft ² / 10,94m ²
certified load factor	+ / - 10g

WEIGHTS

typ. equipped empty weight	1,400lbs / 635kg
MTOW normal category (+6g/-3g)	2,094lbs / 950kg
MTOW acro category (+10g/-10g)	1,808lbs / 820kg

AIR SPEEDS

never exceed speed (V _{ne})	220kts
maneuvering speed (V _a)	158kts
max. cruise speed	202kts
stall speed (950kg)	56kts
stall speed (750kg)	50kts

FUEL

total capacity	51.8gal. / 196l
usable fuel	51.0gal. / 193l
usable fuel - acro tanks only	19.3gal. / 73l

330LX - STEEL FUSELAGE



Lycoming AEIO-580-B1A, 315 hp, 6 cylinder engine
Two fuel pumps (1 engine-driven, 1 electric)
Single oil cooler system
Electric starter - 60 Amp lightweight alternator - 12V battery
Teflon lightweight hoses with integrated firesleeve

Manually adj. rear rudder pedals with diff. toebrakes
Forward rudder pedals with differential toebrakes
Adjustable composite rear seat, contour molded
Front and rear Hooker safety harness with ratchet
Fixed composite front seat, contour molded
2 front and 2 rear bezel-operated air vents
Electrical elevator trim system

Titanium firewall

Mühlbauer MTV 9-B-C/C198-25 3-blade propeller

Smoke system, with automatic filling system
Trickle charger socket

Gomolzig, 6-in-1 exhaust system

Fibreglass landing gear spring

Two - seat bubble canopy

Carbon fibre empennage structure

Carbon pushrods

Fuselage assembly, 1.7734 steel

Standard Paint Scheme by AircraftStudioDesign

Carbon fibre wing assembly with integral tank

Steerable, lightweight tailwheel

Alirion with horns

Pitot static system

LED strobe/Nav lights

★ Additional Options Available

330LX
Two-seat Aerobatic Competitor

AIRCRAFT DIMENSIONS

wingspan	26.3 ft / 8,0 m
length	23.1 ft / 7,2 m
height	8.6 ft / 2,6 m
wing area	115.4 ft² / 10,7 m²
certified load factor	+/- 10 g

WEIGHTS

typ. equipped empty weight	1.422 lbs / 645 kg
MTOW normal category (+6/-3g)	2.095 lbs / 950 kg
MTOW two-pilot acro (+8/-8g)	1.918 lbs / 870 kg
MTOW single-pilot acro (+10/-10g)	1.808 lbs / 820 kg

AIR SPEEDS

never exceed speed (Vne)	220 kts
maneuvering speed (Va)	158 kts
stall speed at 1.808 lbs / 820 kg (Vs)	57 kts
stall speed at 2.095 lbs / 950 kg	61 kts

FUEL

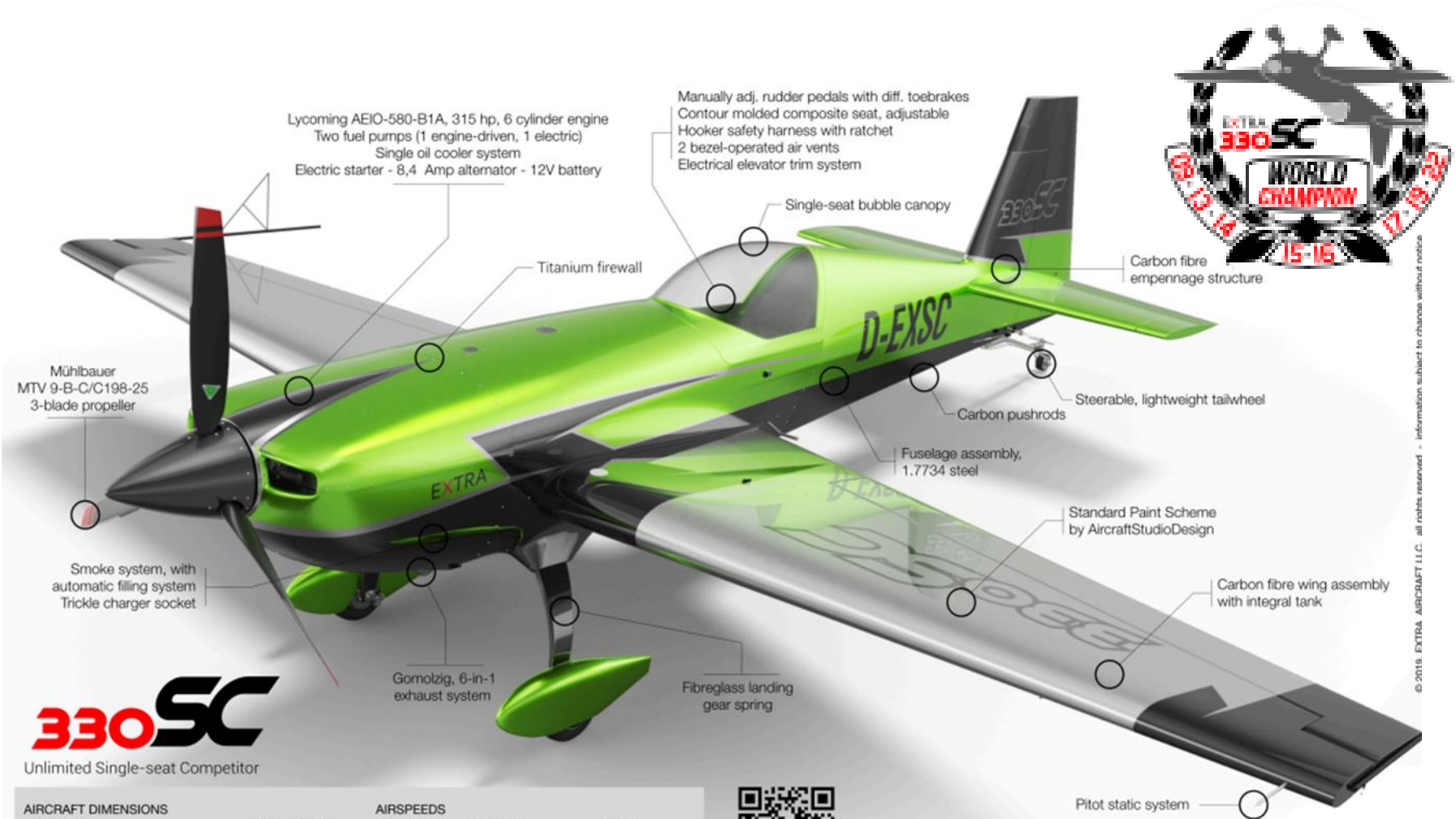
total capacity	49.7 gal / 189 ltr
usable fuel	49.2 gal / 187 ltr
usable fuel - acro tanks only	17.7 gal / 67 ltr

EXTRA
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330SC - THE ULTIMATE AEROBATIC AIRCRAFT



330SC
Unlimited Single-seat Competitor

AIRCRAFT DIMENSIONS		AIRSPEEDS	
wingspan	24.6 ft / 7,5 m	never exceed speed (Vne)	220 kts
length	22.6 ft / 6,9 m	maneuvering speed (Va)	158 kts
height	8.4 ft / 2,6 m	stall speed at 1.720 lbs / 780 kg (Vs)	59 kts
wing area	105.6 ft² / 9,8 m²	stall speed at 1.918 lbs / 870 kg	61 kts
certified load factor	+/- 10 g		
WEIGHTS		FUEL	
typ. equipped empty weight	1.291 lbs / 585 kg	total capacity	59.2 gal / 224 ltr
MTOW normal category (+6/-3g)	1.918 lbs / 870 kg	usable fuel	58.4 gal / 221 ltr
MTOW acro (+10/-10g)	1.720 lbs / 780 kg	usable fuel - acro tanks only	26.7 gal / 101 ltr



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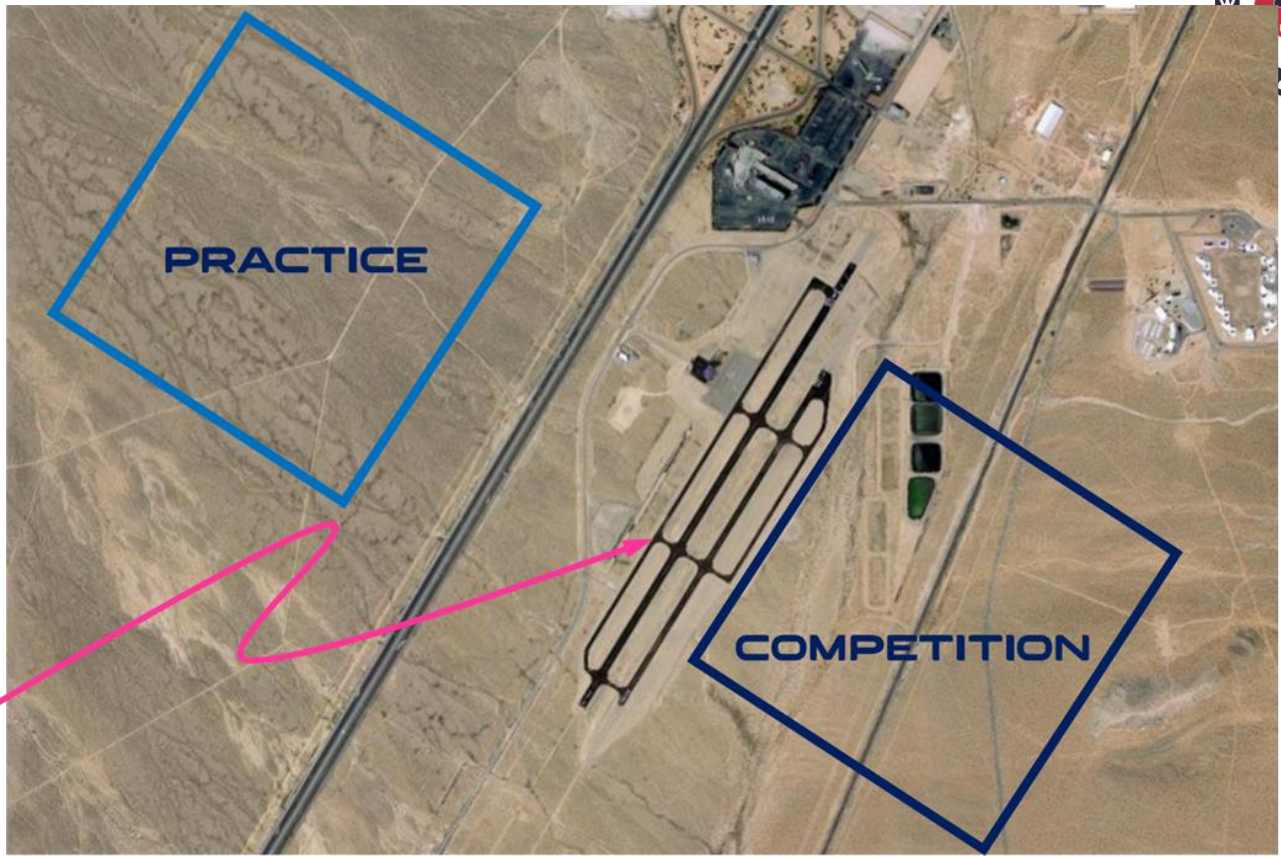
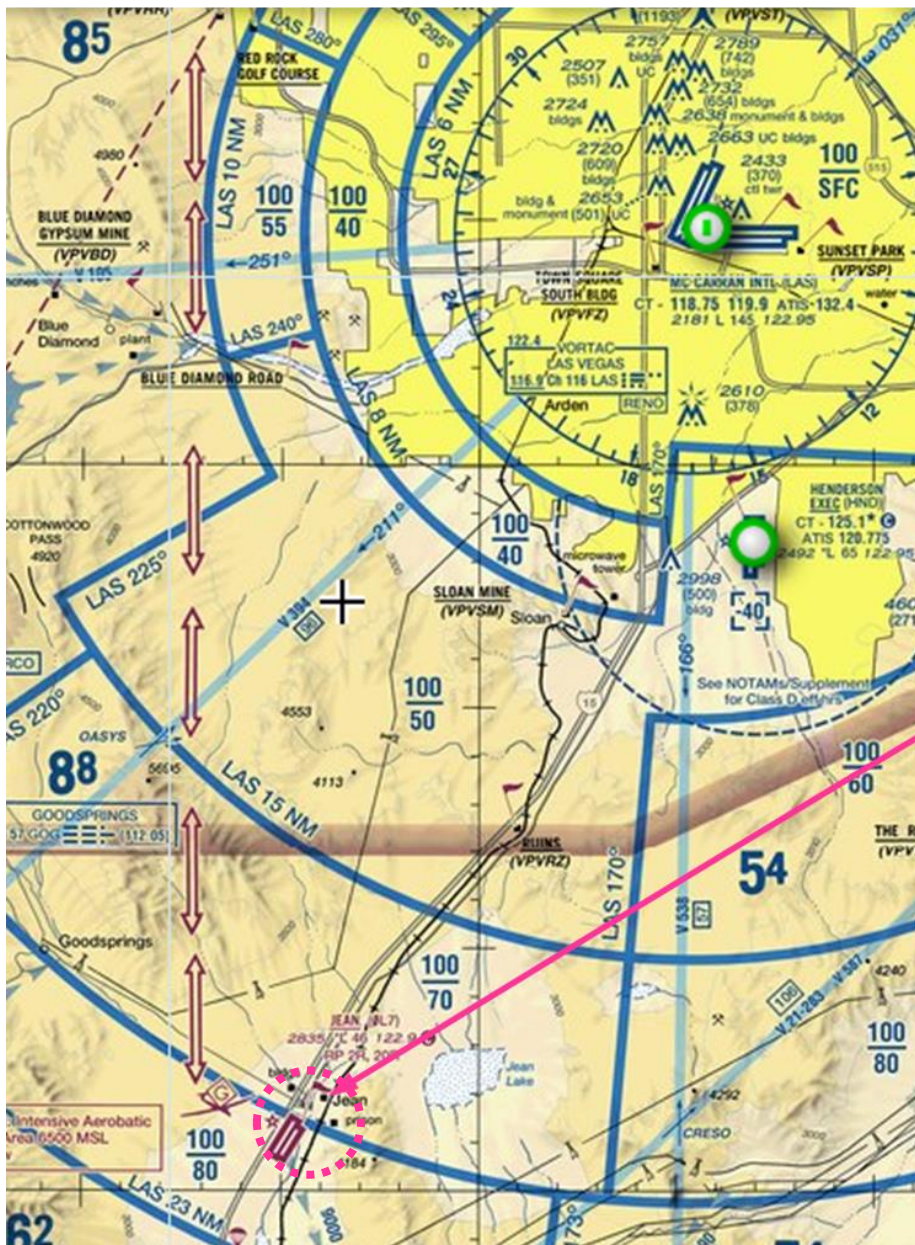
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15TH FAI WORLD ADVANCE AEROBATIC CHAMPIONSHIP - 2023



CONTEST AIRFIELD - JEAN AIRPORT OL7



Runways

02L-20R 4,600 ft. [1,402m]
02R-20L 3,700 ft. [1,127m]

Aerobatic Box Floor & Ceiling

3,491 MSL (656 AGL)
6,444 MSL (3,609 AG)

Field Altitude 2,835 ft. / 864m MSL

US West Open Championship held 2019 to establish protocol with FAA and airport management



HIGHLIGHTS

- Competition box immediately off of runway
- Excellent spectator viewing
- Perfect October 2023 Weather in Las Vegas
- No Hassle Logistics
- Las Vegas 15 minutes north of field
- Practice Box (not shown) left of interstate.



JEAN - WAAC 2023 AEROBATIC BOX

WAAC 2023 SCHEDULE

Schedule	Comments
Ramp Set Up: October 19-20-21 (THUR/FRI/SAT)	Opening Inspection - Set up tension fabric hangars, power, portable potties, judge's lines and box markers. Pilots will be able to fly but it is not part of working contest hours. Will make sure air space is waived and appropriately managed
Official Training Days, Arrival Registration: October 22-23-24 (SUN/MON/TUES)	Ramp is clean & clear – official scheduled practice times – get competitors into the rhythm
Last Official Training Day: October 24 (TUES) <ul style="list-style-type: none"> Registration Opening Pilot Briefing Opening Ceremony and Celebration 	Cut off at 2:00 pm for flying and registration Opening Ceremonies 3:00 PM
Competition Days (5): October 25-26-27-28-29 (WED/THU/FRI/SAT/SUN)	Competition Flying 8:30 AM to 4:45 PM [Sunset is 5:52 PM]
Competition Days (5): Oct 30-31 Nov 1-2-3 (MON/TUE/WED/THU/FRI)	Competition Flying 8:30 AM to 4:45 PM [Sunset is 5:42 PM]
Friday Night November 3 Awards & Celebration	Location TBD in Las Vegas
Departure: November 4 (SAT)	Departure
Ramp Tear Down: November 5 & 6	Clean up – Closing Inspection

COME TO VEGAS



- On the ground volunteers
- Donations
- WWW.WAAC2023.COM

THANK YOU - QUESTIONS

