

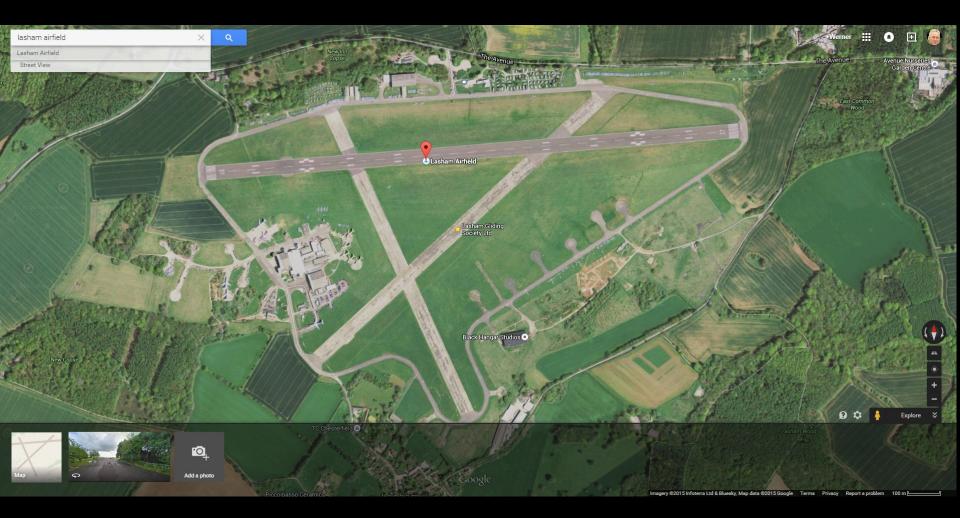
Lasham Gliding operations post Farnborough CAS implementation

Jordan Bridge Deputy Chief Flying Instructor



Lasham Airfield





Lasham Gliding Society

- We own Lasham Airfield, operating 364 days a year and have 45-50,000 movements per annum making us the busiest gliding operation in the world.
- We currently have about 750 flying members.
- 250 aircraft on site.
 - 24 Club aircraft.



- Falke Motorglider for glider and TMG training
- 230 privately owned gliders with a handful of TMGs and SEPs.
- 100+ students under training all year round to licence standard at any one time.









Times of year for Gliding

- Lasham is active 364 day a year weather pemitting.
- Minimum flying conditions 800ft QFE ceiling, No significant weather and visibility >3km with winds less than 25kts.
- Peak season April-September when there is lift.
- Busy midweek as well as weekends.
- Airfield active with Gliding 0830L-Dusk







Lasham on a busy day

- Over 100 gliders flying cross country from Lasham on the good days.
- Movement rate sometimes exceeding 60 per hour.
- Lots of training gliders in the local area.

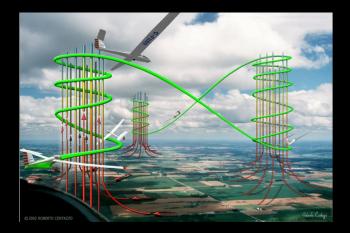


<u>How glider pilots operate</u>



- Glider pilots are used to flying in close proximity to others.
- Glider Pilots look for lift (thermals)
 - Often over brown fields / towns
 - Large birds (red kite) indicate thermals
 - Other gliders (gaggles)
 - Following cloud "streets" (just below cloud)
- Pilots rely on lookout for collision avoidance, but this can be difficult when turning, FLARM is a major aid and has reduces mid air collisions substantially.
- Gliders do operate in VMC and IMC when conditions permit but do so safely and with training.





Cross Country flying

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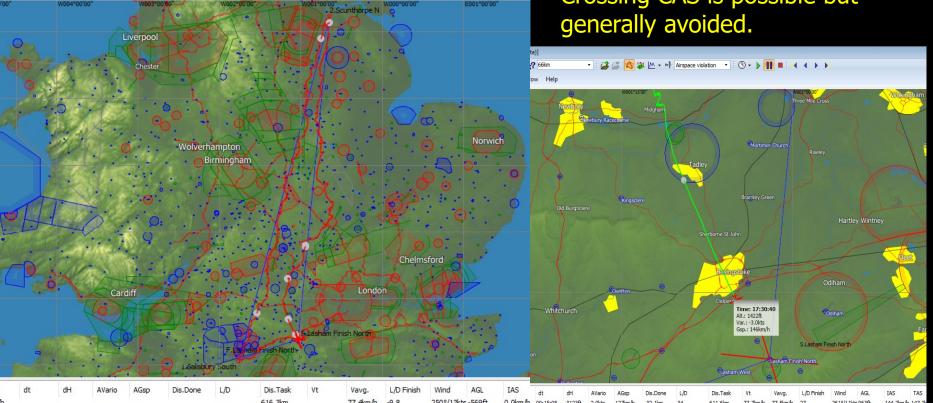
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P Fit Flight

Vindow



We follow the clouds to find thermals and energy lines (ridge or wave lift).
Crossing CAS is possible but generally avoided.



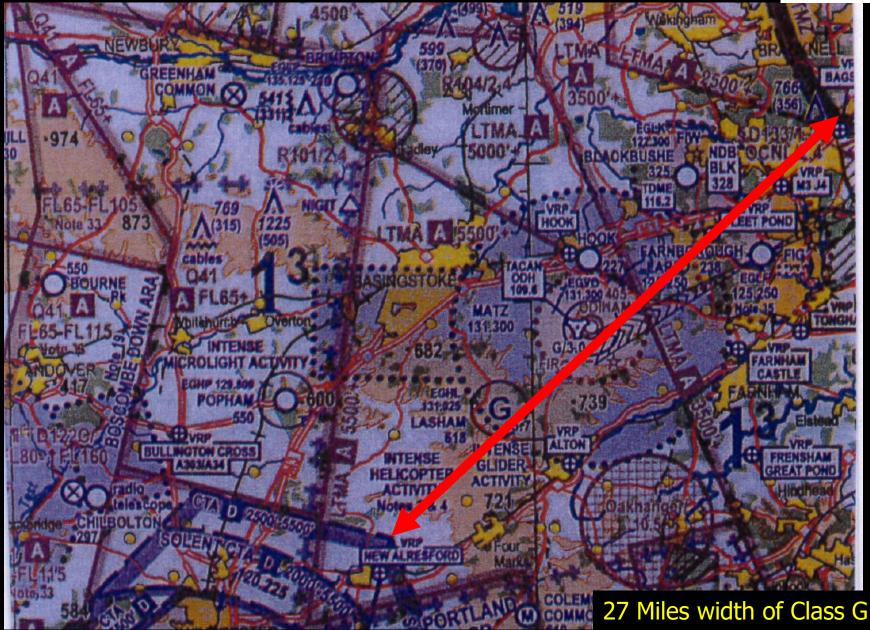
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- Can happen year round but generally March-October.
- Example 8hr 600km flight from Lasham

Final glide can be from 40km to Lasham at 100kts crossing M3 at 1500 Lasham QFE

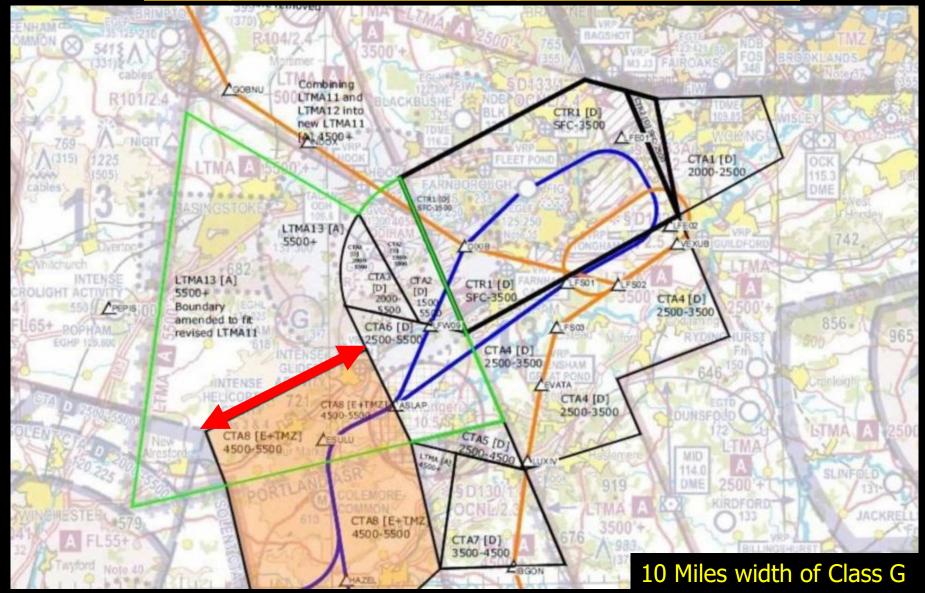
Airspace Currently



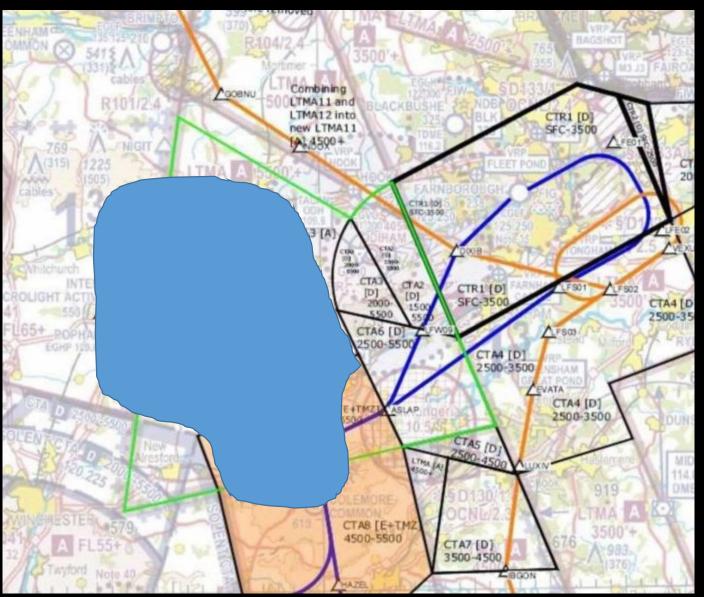




Airspace After Implementation



Where will we operate locally?



Very busy circuit

The home of Gliding

- Generally upwind of the airfield.
 - Outside CAS (Unless LoA in effect)

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- To the base of CAS
- Avoiding immediate overhead
- Further away from Lasham, the higher gliders generally are.
- Aerotows to to base of CAS.



Risks and Mitigations

Winch Cables

- Cables launched to max altitude 3600ft often over 100 times a day above the airfield. (14,000 times pa)
- Process takes less than 60 seconds after a 'all clear above and behind check' for conflicting traffic
- Quick acceleration. Climbing at 70kts at 3000FPM.
- High workload
- A number of Airproxes and MORs both locally and nationally.
- If a cable were to hit an aircraft, it could cause a fatal accident.









High traffic density in remaining Class G











Lasham's mitigation steps

- All gliders fitted with FLARM, Radio and Moving Maps
- NOTAM published by Lasham on busiest planned days to aid situational awareness for other airspace users.
- Daily briefings to ensure all airfield users are aware of the day's operations and potential hazards.
- Reviewing further conspicuity options.







- Avoid immediate vicinity of Lasham and certainly overhead due to risk of cables.
- Passing downwind of Lasham will avoid most gliding activity.
- If required, make any unusual intentions known on 'Lasham Gliders' 131.030MhZ to aid situational awareness.
- Assume Lasham is active unless you have positive confirmation it isn't.



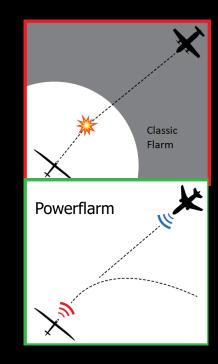


Flarm/PowerFlarm

- Developed in use in Gliding since mid 2000s with substantial decrease in collisions.
- Predicts and warns of conflicting using GPS data, but no deconfliction, just collision warnings.
- Latest versions 'PowerFlarm' Receives (but does not transmit) ADSB.
 - Receives Mode C readouts (but does not transmit)
 - Range of 10km.
- People replacing their original Flarms with PowerFlarm when upgrading instruments.
- Technology continually improving. More gliders with ADSB and Transponders in the future.
- All Lasham based powered/glider aircraft will have a version of Flarm fitted by March 2020.







Online Glider Network

- Unified tracking platform for anything Flarm Equipped.
- Being used by ATSUs (Generally only Military) for general glider activity information, not for control purposes.
- Intergrates with other conspicuity devices like PilotAware to provide pilots equipped with information on Flarm Aircraft (but only when near a broadcasting station.)





2020 Gliding Competitions

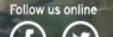
- 18 and 20m Nationals and Lasham Regionals
 - Range of glider types based on wingspan.
 - Around 80 competitors
 - Briefing at 1000
 - Grid take-off from 1100 (delay up to 1500 for weather)
 - Start approx. 1 hour after first launch
 - Finish tasking around 17:00 hrs
 - Finishing from West or North.
 - 10 tugs to ensure 80+ gliders can be launched in 1 hour.
 - Route (100-500km) promulgated by NOTAM each day.







Giding... so much more than flying!





gliding.co.uk



Questions?