



JOINT COACHING DAY

Introduction and Development of Cross Country flying skills

Lead: Dave Ashcroft/Ed Cleasby Contributing: Ian Henderson

Dave Ashcroft (Chief Coach CSC)

Ed Cleasby (Chief Coach DHPC)



Ian Henderson (Secretary CSC)





Programme

Admin.

- Lunch
- Toilets
- Fire route
- Etc
- Ask questions

CSC/DHPC Joint Coaching Day

Hawkshead Brewery - 31st Jan 2015

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9:15 (start 9:30am) - 4:30 approx

Outline programme (timings - approx.)

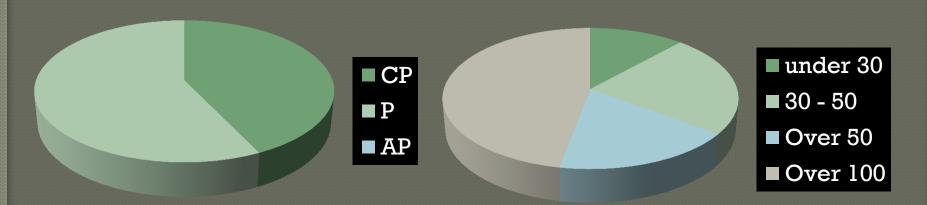
Timings	Outline	Lead
9.30 am -	Welcome, introductions.	EC/DD
10.00	Aims of the day	
	Programme and timings. Admin – meals, fire, toilets etc	
	Group profile	30 min
10.00	Why fly xc? When are you ready? Key skills.	EC
-	Knowing your equipment and your area	
10.45	Preparing yourself mentally	
	Day planning – conditions, site selection, planning flights.	45 min
10.45 -11.00	COFFEE	15 min
11.00	Mountain flying - close to hill and at height. Judging when to leave the	DD
_	hill. Selecting routes and thermals, reading clouds. Safety.	
11.45	, , , ,	45 min
11.45		IH
_	Getting the best from your instruments.	
12.30	Navigation, airspace and communication.	
		45 min
12.30 - 1.15	LUNCH	45 min
1.15	Flatland flying – reading terrain/the sky. Sources and triggers. Judging	DD
_	clouds.	
2.15		
		60 min
2.15	Key decision points. Transitions – valley crossing, hill ground to flatlands,	FC
-	inter thermal. Speed to fly.	
3.00	inter themal.opecutomy.	
3.00	Post flight analysis.	45 min
	What you can learn from analysing your own and other peoples flights.	
3.00 - 3.15	COFFEE	15 min
3.15	XC profile - The Lakes - An overview of the nature of xc flying in each	DD
-	Area. The considerations, airspace, safety and	EC
4.15	typical stock routes.	
	XC profile – The Dales –	
	30 min/area	
4.15	Plenary.	DD/EC
-	Q and A discussions. Setting goals.	
4.30 - 45		I

NOTES: The timings are there for guidance and are approx. For example - they don't allow for changeover time, a session running over or finishing sayly. Running over is a bigger problem than finishing 5 agios, early. Coffee breaks can be run into or started earlier - once people have a drink. Lunch will probably need 45 due to serving delays. For coffee the Brewery ageg approx. times. The time we have is not long to cover a big topic so material needs to be delivered strictly to plan and allow for people asking questions arrequiring derification. The 445 finish can be extended to 5pm if required.

Group Profile

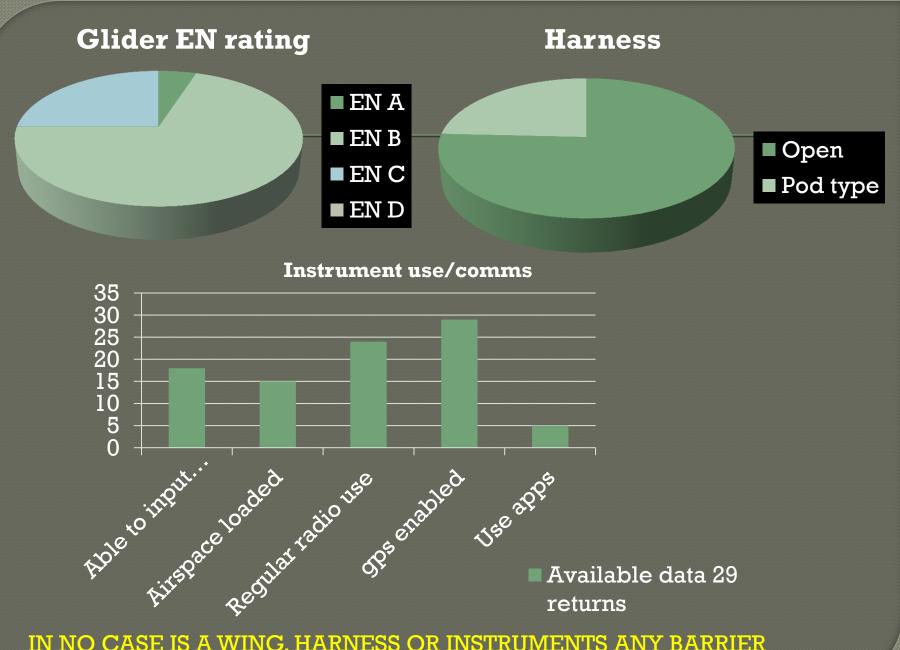
Pilot rating

Flying hours

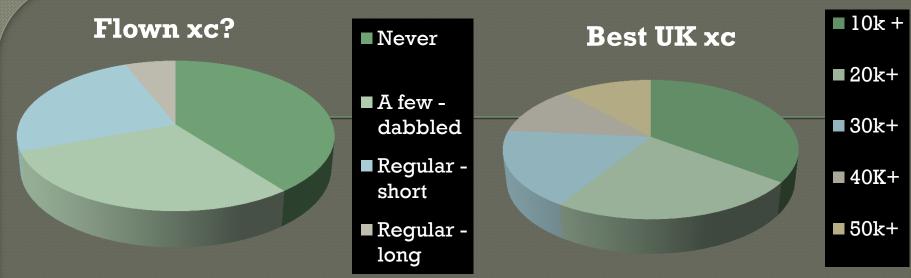


Rating and flying hours tend to be a **crude measure** of experience as:

- Some CP rated pilots have several 100 hours.
- · High hours could be spread over many years, so pilot not especially current
- Some with only a few years in sport have accrued many hours very current
- Some have wider experience of sites, flying abroad, weather conditions.



IN NO CASE IS A WING, HARNESS OR INSTRUMENTS ANY BARRIER TO FLYING XC - PERIOD



Strengths

- Patience
- Fairly confident
- Thermalling is OK
- Happy to 'go for it'
- Know the area
- Planning

Weaknesses

- Don't like flying alone
- Finding the best site
- When to leave the hill?
- Assessing weather
- Having no real plan
- Dithering
- Getting into bad places in the hills
- Concern about clouds
- Reading the signs clouds and ground
- Fly too slow/ too fast
- Finding the second thermal
- Getting back
- Landing in a strange place

Preparation and Planning for flying Cross Country

This section deals with:

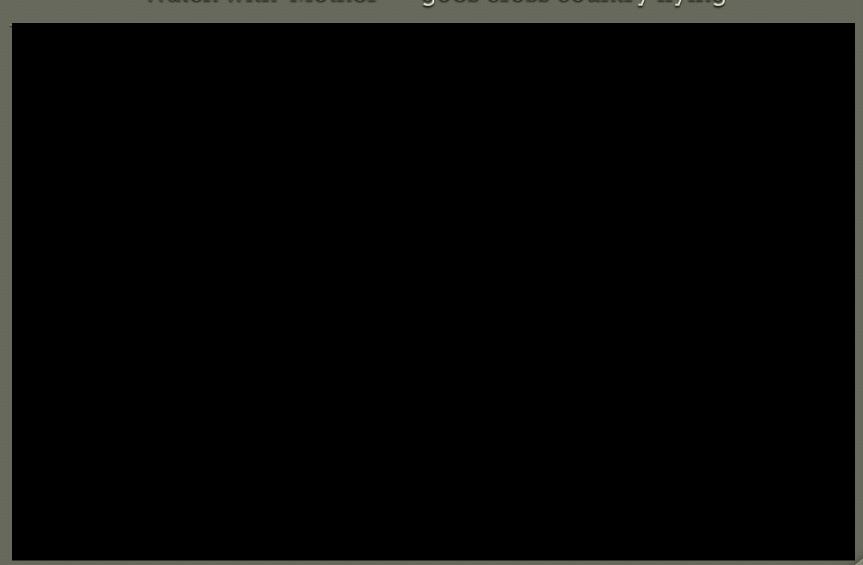
- The motivations for wanting to fly cross country
- The barriers that prevent us from doing so
- Knowing when we are ready
- Preparation for getting the best out of:
 - a) the day/conditions
 - b) our equipment
 - c) ourselves
- Having a plan

In fact, an overview of everything up to the point of take off.

' no one has ever seen a thermal ... we've only experienced them'

So this is what it's all about?

Watch with Mother' - goes cross country flying



Why fly cross country?

What motivates one to fly xc

Barriers to xc

Further develop my flying skills

Be a better pilot

Adventure/excitement/the buzz

The challenge

Peer pressure - do as my mates

Peer recognition

To compete - competitive gene

See my house from above

Need these skills to do vol biv

To beat Ali!

Better than sex!

Lack of confidence

Fear of failure

Fear of landing out

Someone to help/advise/guide me

Limited flying skills / knowledge

Concern about clouds

Worrying about airspace/navigation

Finding the second thermal

Deciding when and if to leave the hill

Getting back

NOT getting back

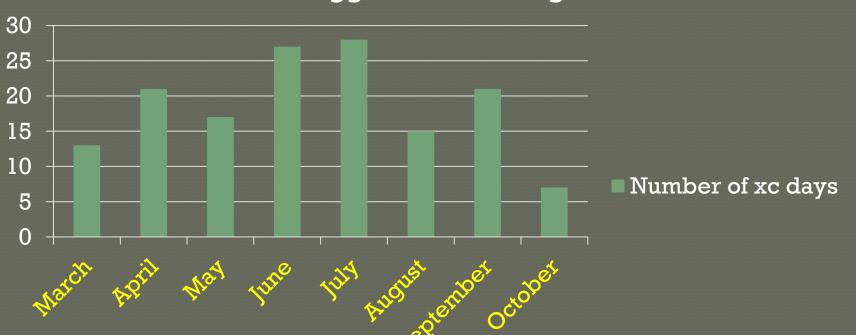
From the lists above, choose two which you feel best sums up your motivations and three which you consider may be barriers.

WARNING!! Cross country flying is highly addictive

UK xc background info' from xcl

- The UK offers many opportunities to fly xc
- Most days March to November offer xc potential
- · It's about gauging the potential of the day and exploiting it as best you can

Data from logged UKXCL flights - 2014



Getting the best out of a day

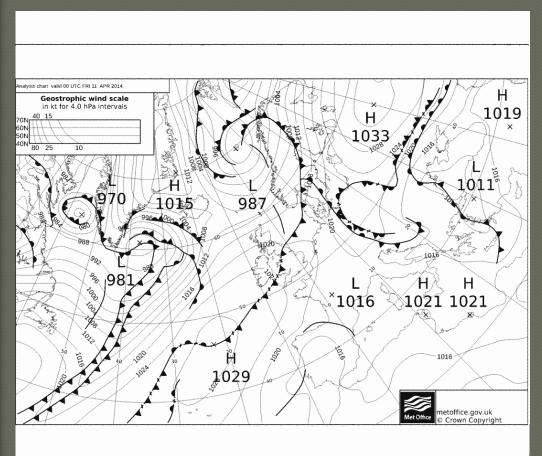
- It's all about being in the right place, at the right time with the right mindset and a plan.
- The place (site) and time (not too late!) depend on having read and understood the weather conditions both in advance, on take off and during flight
- Pre flight planning and preparation are vital to improving your chances, because xc flying is a percentages game.

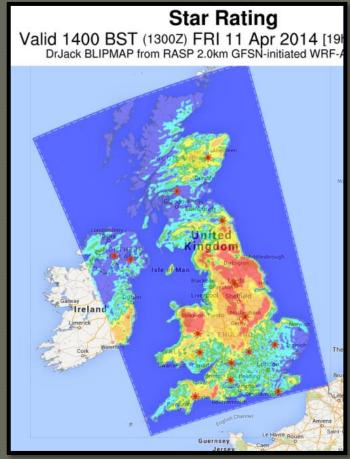
WEATHER

- Understanding the weather/getting the site choice right gives you a good start.
 - 1. Get several forecasts not just RASP. Apply it to your local area.
 - 2. Talk with others, social media/forums get in the loop.
 - 3. Watch how weather systems develop and move across the UK spot the windows.
- 4. You need to know about airmass, wind speed, cloudbase, solar heating, lapse rate, overdevelopment potential, cloud types and factor in wave, convergence (types) and terrain.
- 5. ALSO not just on your take off hill but along your projected xc route over a period of many hours. It's more about where you're going than where you've been.
- 6. On a paraglider you can't force the conditions, they tend to dictate your course, speed and height it's more about getting into sync with them.
- 7. To confuse you! Good looking days can start surprisingly poor; poor ones become very good.

Using 11th April 2014 as an example

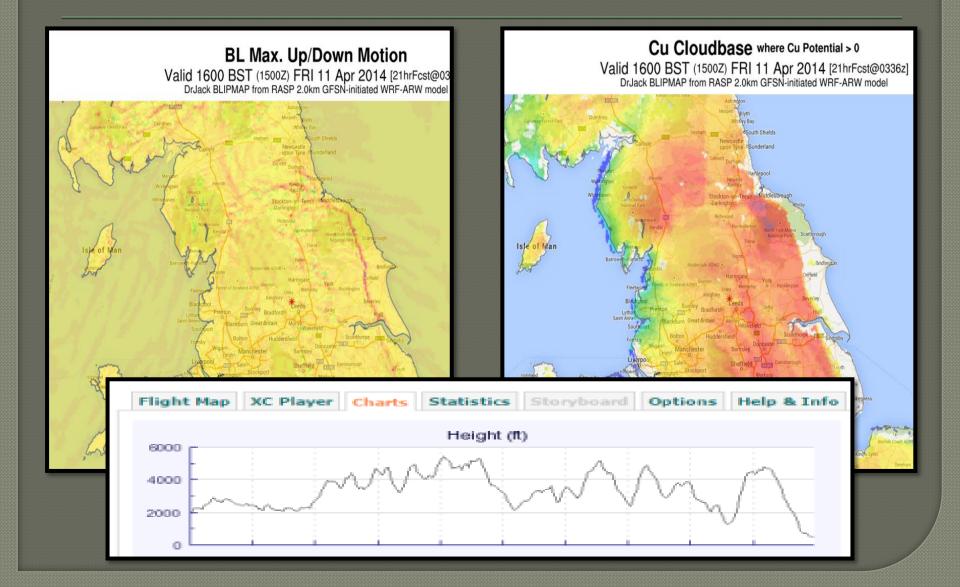
- 97 UK xc flights recorded that day
- 15 100k+ flights from Dodd/Wether Fell
- As front progressed SE Bradwell also came into play





http://www.wetterzentrale.de/topkarten/tkfaxbraar.htm

Looking in more detail into the day using rasp charts



Prepare your equipment and accessories

The aim is to be mentally and physically comfortable in the air

".....small niggles have a habit of growing into major distractions"

The wing

- a) has been well packed away to avoid untangling knots, twisted risers ... etc
- b) well maintained and checked

The harness

a) fits correctly – set up and comfortable, speed bar easy to access and use, reserve securely fitted and serviceable. Instruments/radio set up for easy use. If an open harness ensure warm clothing for altitude.

Instruments

- a) check batteries have a good level of charge carry a spare
- b) that you have the necessary 'fields' in your vario/gps for an xc
- c) airspace is loaded to map screen if applicable; not just to where you intend to fly, but beyond
- d) radio frequency is set you can change in flight know other frequencies being used
- e) cellphone fully charged, switch off anything unnecessary that drains it. Carry spare battery capacity especially if using a flight app or using live tracking.

Other

- a) maps airmap (law); area maps useful
- b) food/drink
- c) money, cards, bus pass, railcard etc
- d) large hitching sign at least A3 (laminated)
- e) lightweight waterproofs have proved useful

Prepare yourself around a plan

"..... cross country flying can be a highly emotional and pressured experience that may easily overwhelm the senses and hinder rational decision making......"

Good cross country pilots have the following qualities:

They are:

- calm under pressure
- have control of their emotions
- able to make sound decisions
- mentally alert
- positive thinkers
- · supremely confident



A few tips to improve your chances:

- Study the downwind terrain by map, google earth or a car drive.
- Develop a simple plan put a route into your gps or even declare.
- Imagine your flight in your head and certain senarios
- Study other pilots' tracklogs and look for their climb points
- Don't be impatient. Don't rush to take off.
- · Acclimatise to the day whilst still on the ridge
- Being with others helps a lot in a number of ways
- Be well fed and watered
- A healthy body means a healthy mind mostly.

How do you know if you're in the 'ideal mental state' to fly safely and well?

- You're relaxed, although your adrenaline level is high
- You feel a little nervousness, but with a sense of calmness and confidence
- Your decisions will be made spontaneously without conscious thought process as you will have a strong belief in your ability.
- You feel as if you are in the right place at the right time
- You can maintain concentration and have an awareness of what is happening around you.
- You can maintain control over your emotions and not become tense.

BEFORE you take off deal with as many of the things you can control because cross country flying is a percentages game.

Fly to a rough plan as it gives you something to evaluate against afterwards

That said there is a lot of gut spontaneity involved too

Brief notes on planning a route

..... the right mental attitude is more important than the plan'

- If you plan (or at least think about) a route it provides a focus
- Mentally it is a sign of commitment
- It de-mystifies the experience
- It provides you with knowledge of the terrain, possible hazard areas. possible thermal points, any airspace, landing options, retrieve routes.
- Fly the conditions it decides, when you go, where, speed, route etc

You can't force the conditions to your route - so be flexible.

Additional thoughts (level 1 –first xc's), level 2 – intermediate, level 3 – big ones!):

- L1 don't be too ambitious, it's more about time in air than distance don't rush off.
- - fly known terrain with good landing options along route
 - try to go with a group/gaggle a radio is useful (90% listening)
- every flight, even the shortest one thermal wonder, is a learning experience
- L2 build on previous experience
 - set challenging, but attainable goals consider declaring them
- stick with the gaggle if possible
- - develop decision making skills reading clouds, terrain, birds, gliders, smoke etc
- be prepared to take risks/try things build plan B and C into your planning
- - collect data to analyse later tracklog, photos/video
- L3 still a work in progress for me.
- - think big! It's surprising what you can pull off
- - start earlier (more risky), fly faster once at base go.

End of session Lakes **Pennines** To infinity and beyond? 6,000 feet WoW!!