

Mid-Atlantic Soaring Association

Introduction To Ridge Flying



Why do we want to do this?

- Challenging
- Exciting
- Fun
- Goal Setting
- Is it dangerous?

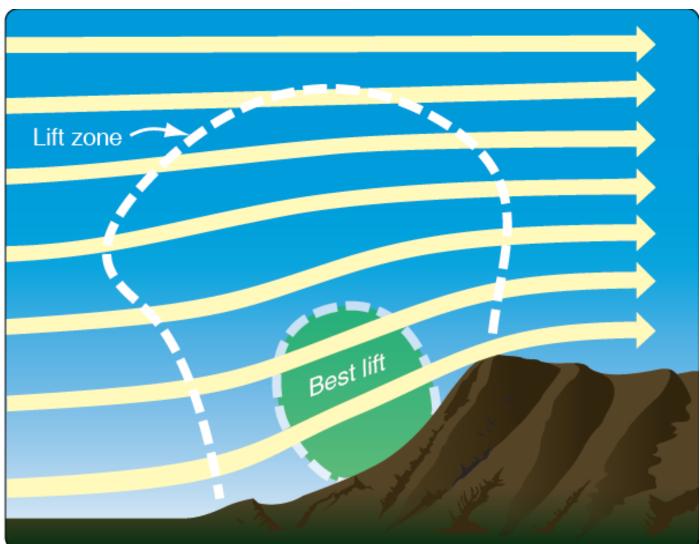


Ridge Flying Basics

- How does the ridge work, or not?
- Basic Criteria
- Rules of the Road
- Flying The Ridge Transitions
- Problems
- Planning



Where's The Lift?





Basic Criteria

- Wind at Ridge Level
 - 15 knots min
 - 30 knots max
 - No more than 30° from Normal to the Ridge
- Wind at the Field
 - 15 knot quartering tail wind (usually)
- X-Country Experience



Rules of the Road

- SSA Standard
- Competition
- M-ASA

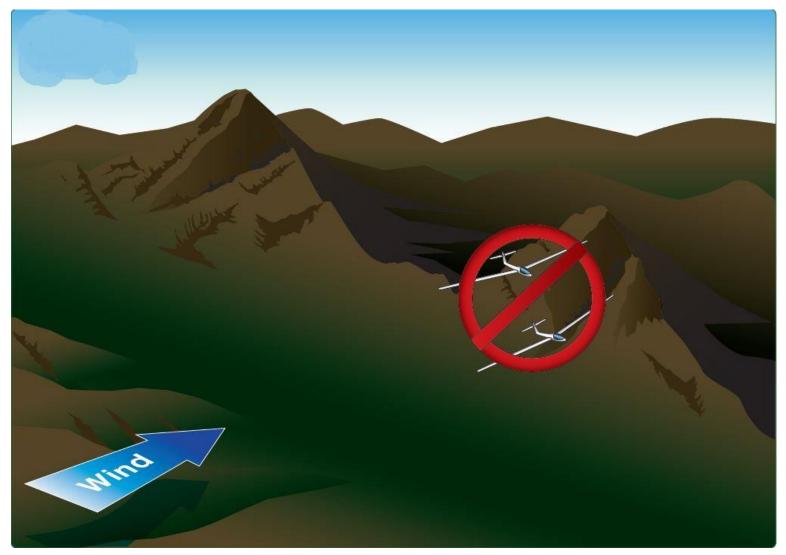


Turn Away From The Ridge



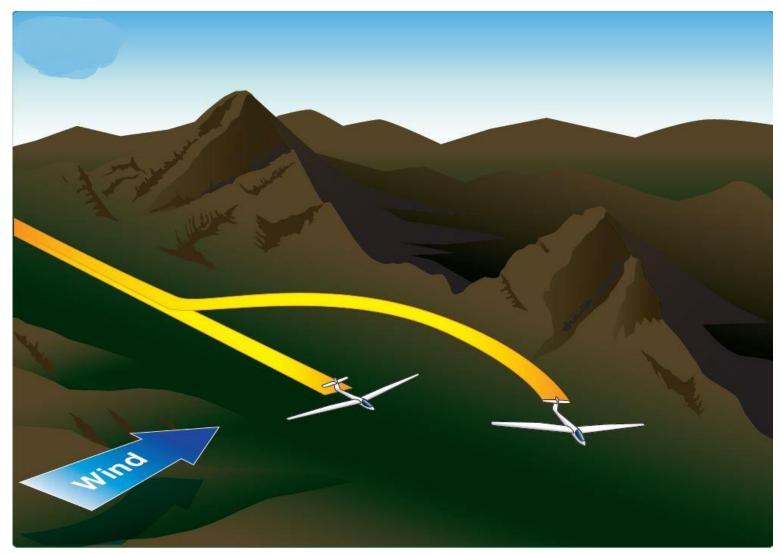


Don't Fly Directly Underneath Another Glider



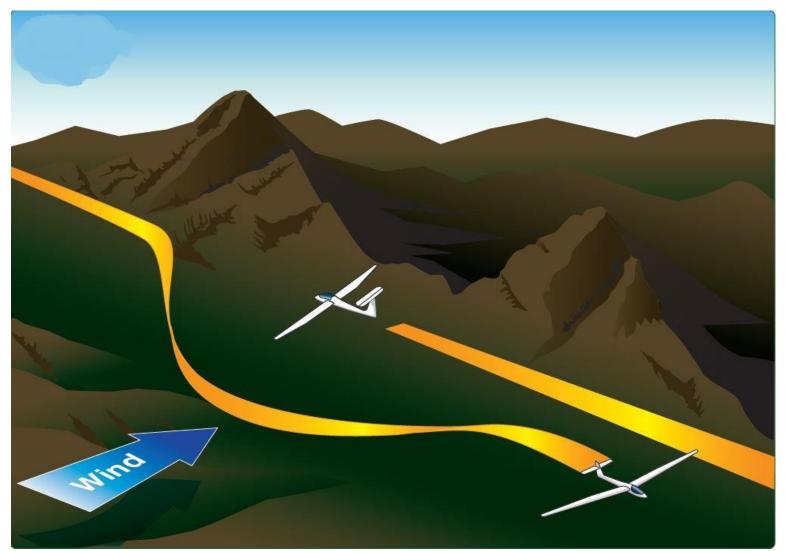


Pass To the Ridge Side (If Possible)





Give Way to the Right (Away From the Ridge)





Flying The Ridge: What's Good?

- Wind Lots but not too much
 - Perfect Angle Normal To The Ridge
- Speed Lots but watch the yellow arc
- Places to Land
- Smooth Air
- Thermals
- Wave Sometimes



What's Not Good?

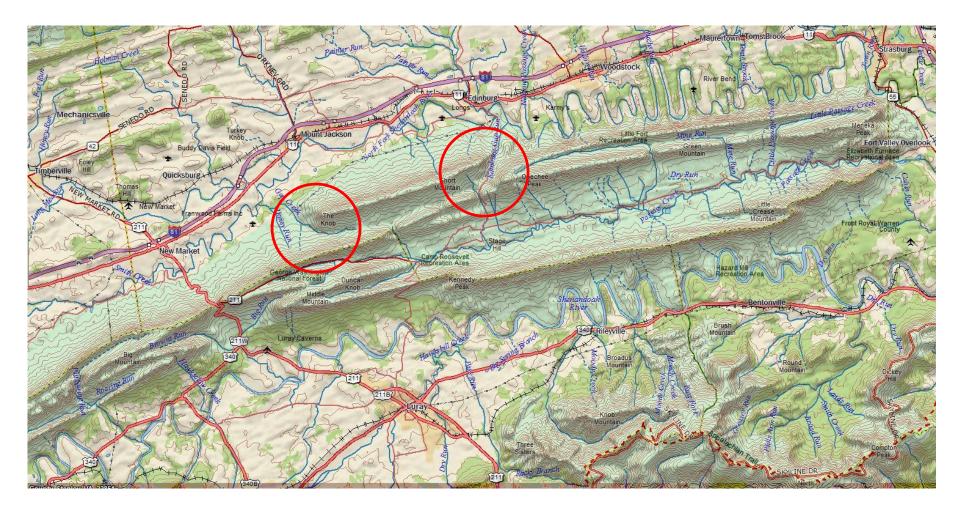
- Weak wind and/or bad angle
- Low speed especially at low altitude
- Unlandable Terrain
- Wave Sometimes

"If it's not rough, the ridge isn't working good enough."

Karl Striedieck



The Massanutten Ridge (Example Transitions)



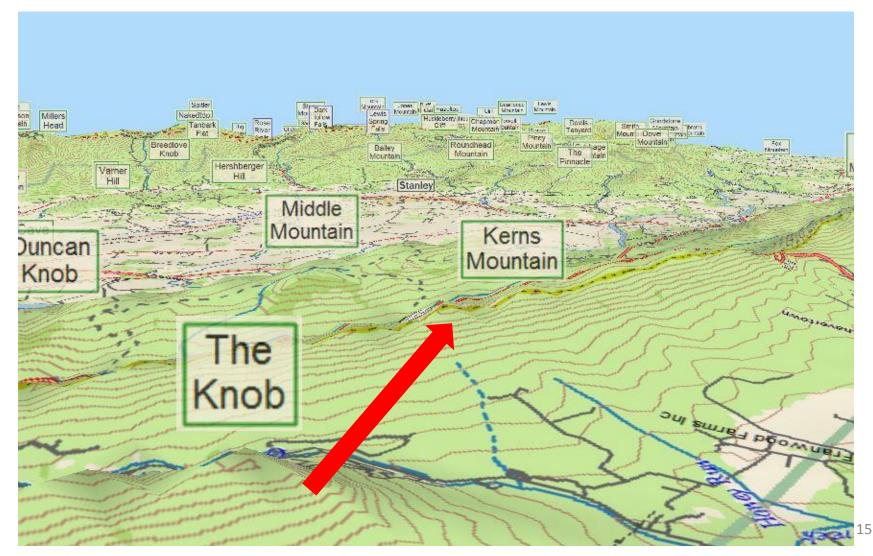


Short Upwind Transition



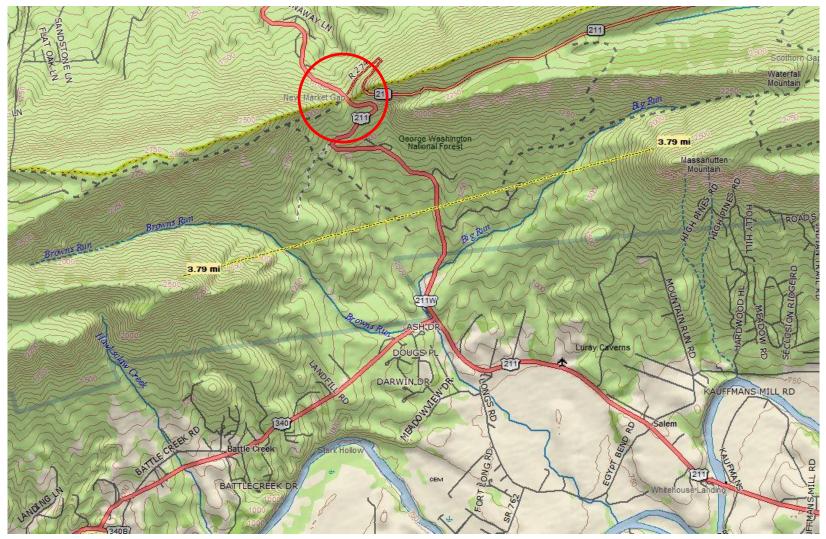


Downwind Transition



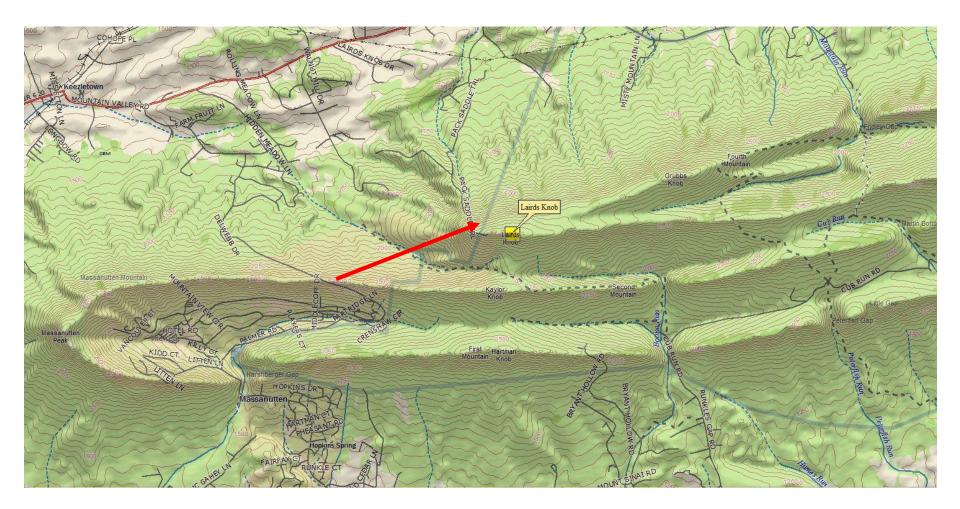


Straight Across (Gap in the Ridge)



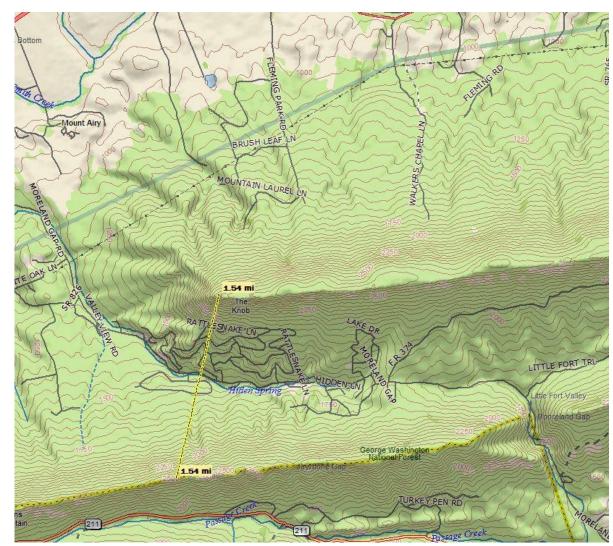


Tricky Transition



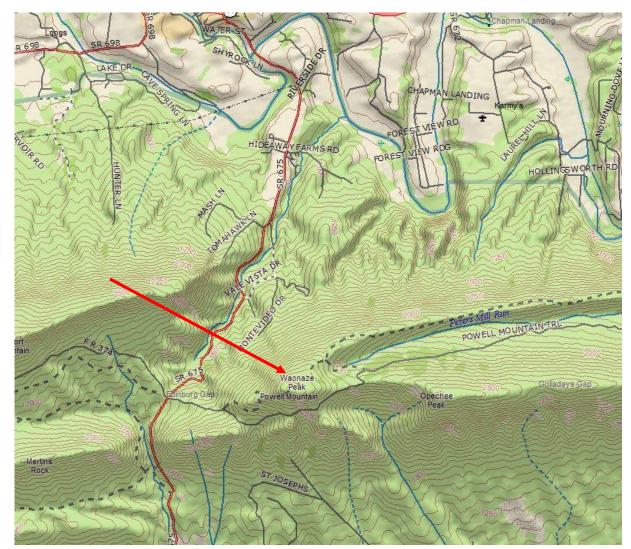


Serious Upwind Jump





Piece of Cake



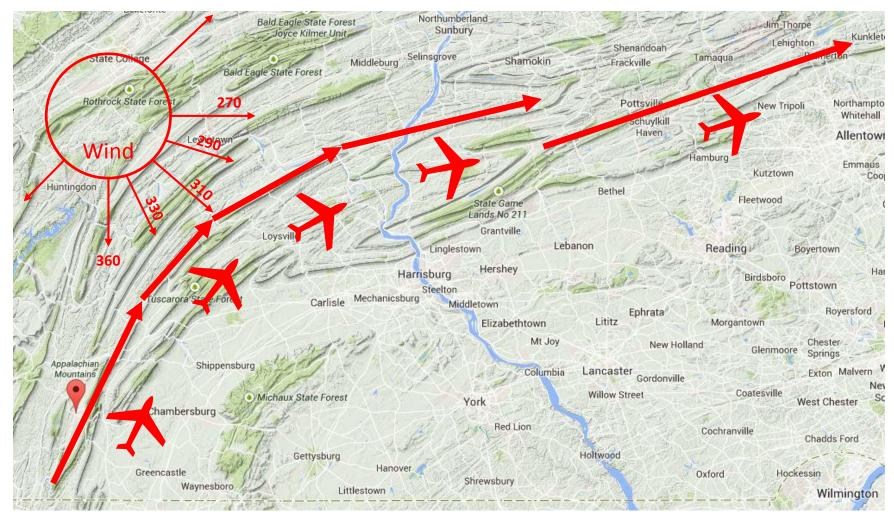


Problems

- Wind Change (Direction or Velocity)
- Wave Suppression
- Turbulence
- Clouds and Precipitation
- Upwind Obstacle

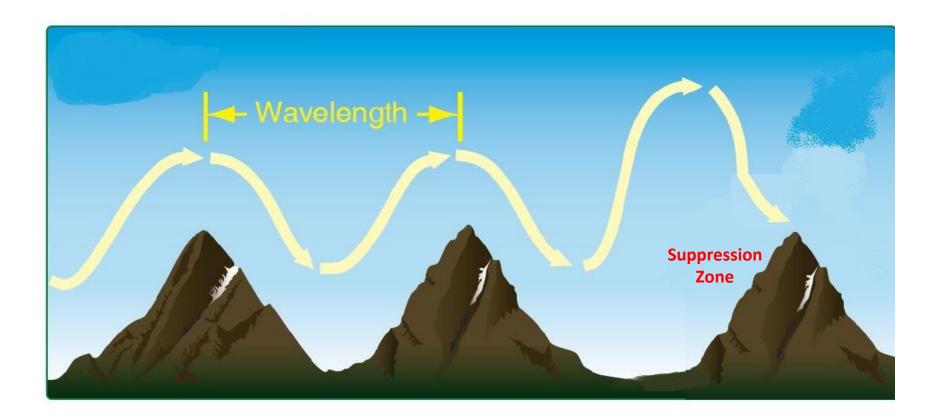


Wind Change or Not





Wave Suppression



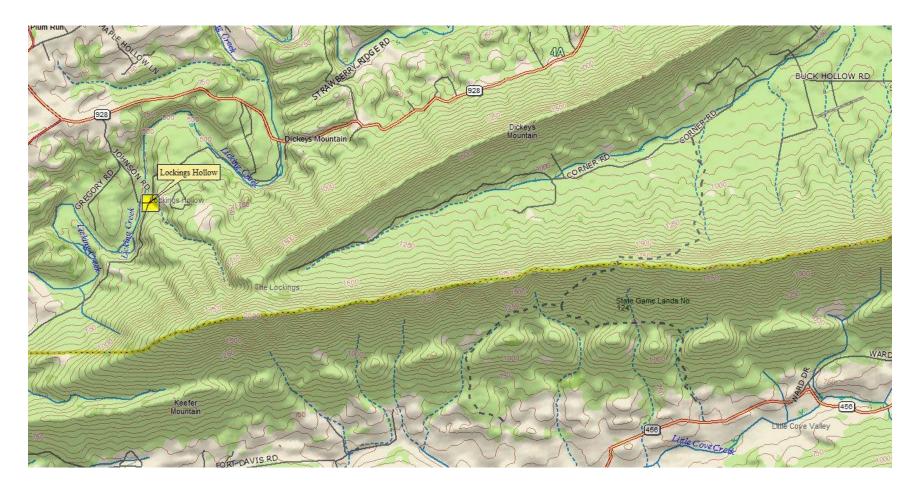


Clouds & Precipitation





Upwind Obstacles





Planning

- Weather What to Expect
- How Fast to Fly
- Where to Land (Should it be necessary)
 - Considerations
 - Happens Fast
 - Be aware of slope
 - May not be able to land into the wind
 - Lee Side?



Questions?

