

Early starts --
If morning wave works...



Long Flights from Fairfield

Routes and Tasks...

Early starts in wave

Early starts on High Rock ridge

Early starts under cloud streets

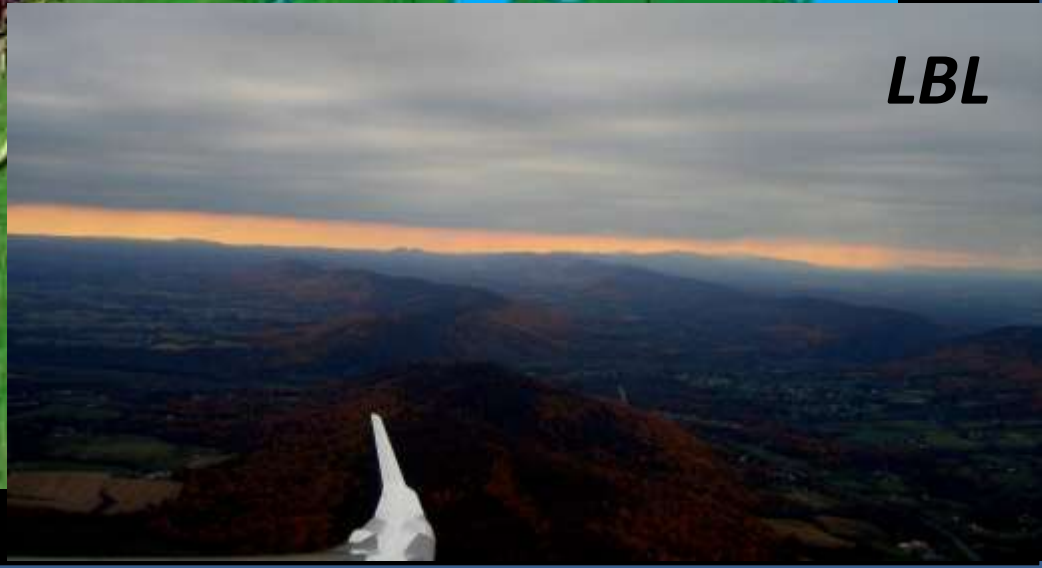
**Common long tasks: FAI 500k/1000k, OLC
1000**

Late returns to Fairfield

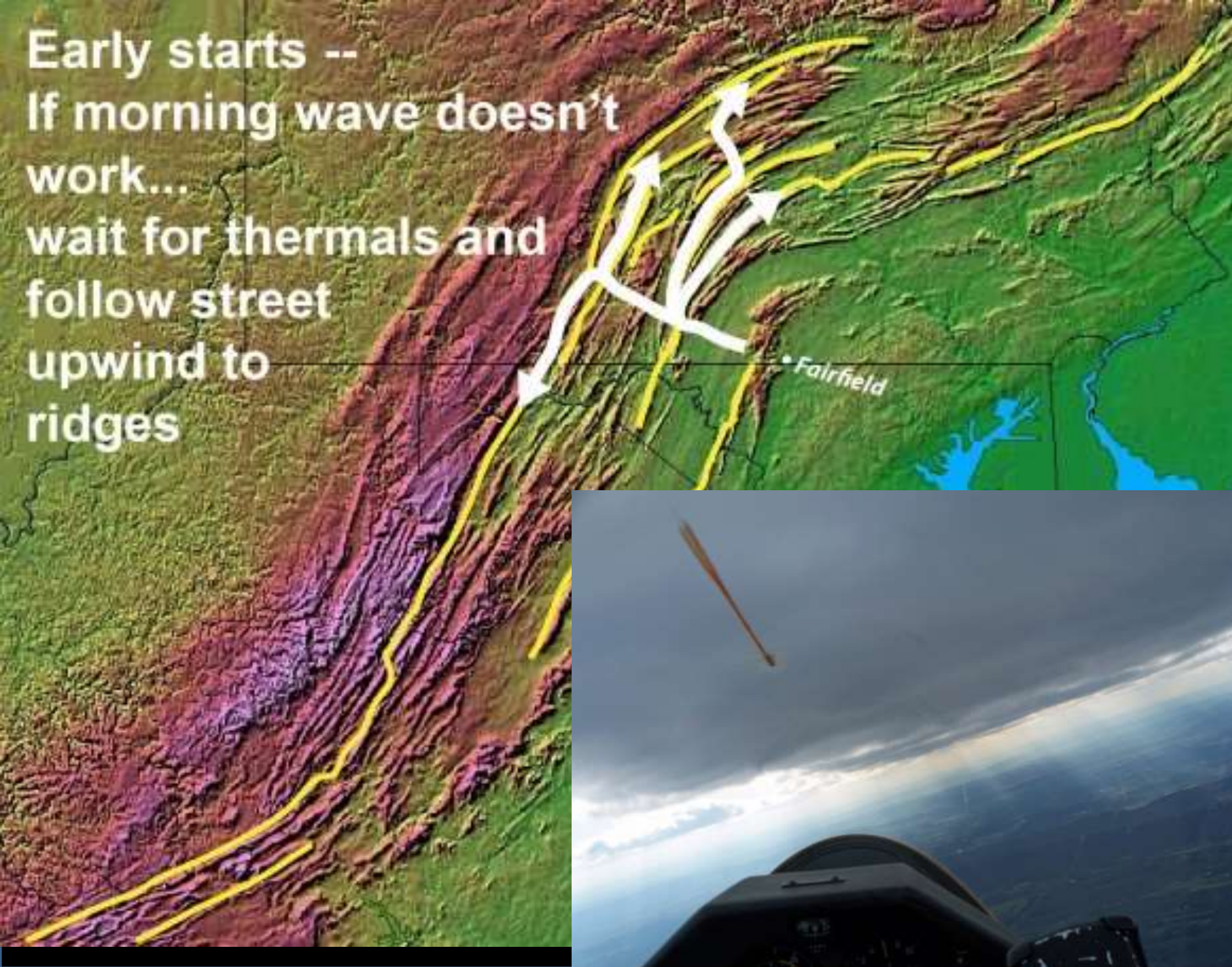
Early starts --
If morning wave doesn't work...
High Rock &
Blue Ridge



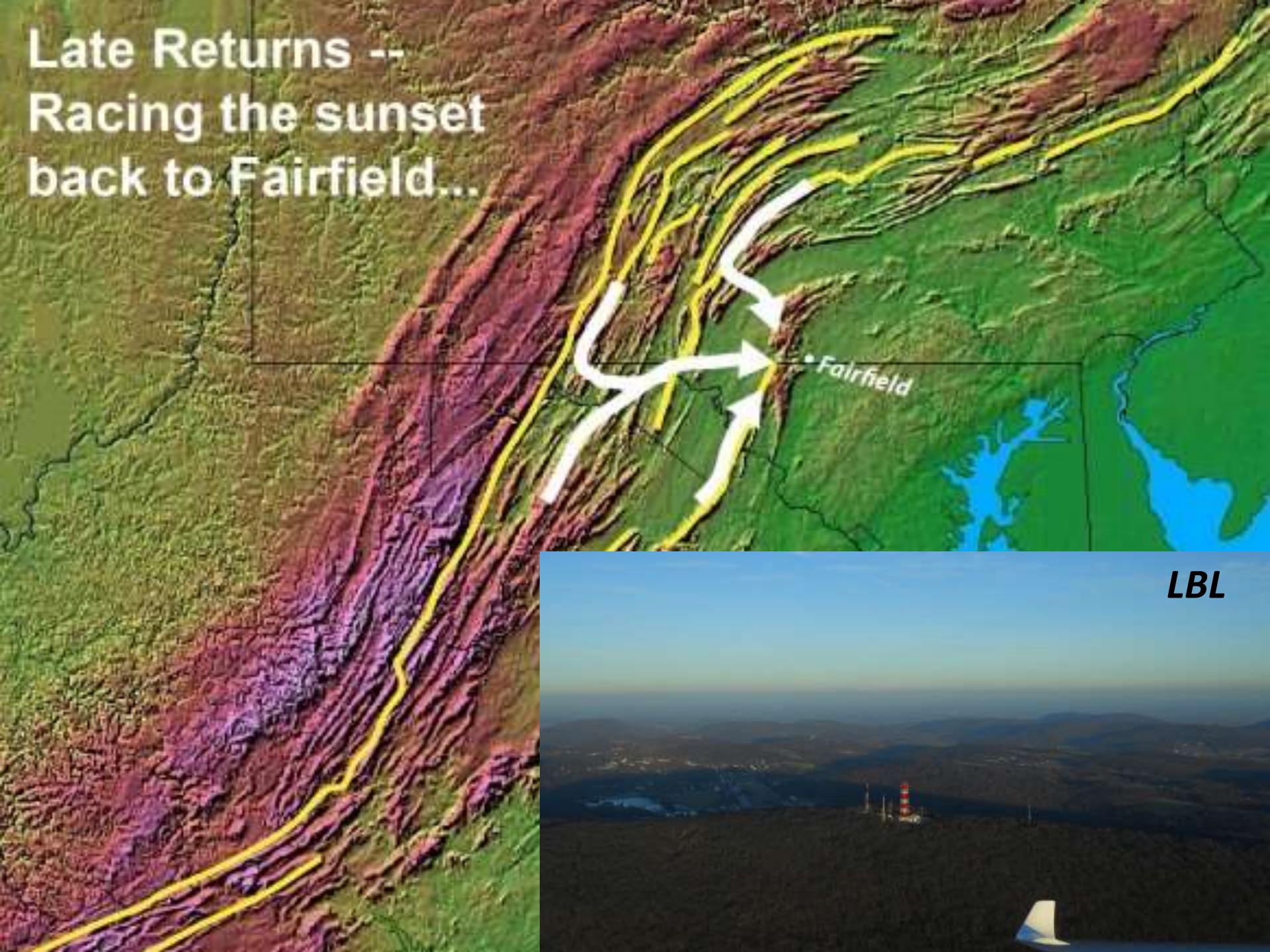
LBL



Early starts --
If morning wave doesn't
work...
wait for thermals and
follow street
upwind to
ridges



Late Returns --
Racing the sunset
back to Fairfield...



LBL

Long Duration/Distance Flying Considerations (8 – 14 hours in cockpit)

- *Fluid/Food (food & drink)*
- *Seat comfort & ergonomics*
- *Pee'ing*
- *Sun Protection*
- *Emergency Bag*
- *Cell Phone & Emergency Power Supply*
- *Road Maps*
- *GPS coupled ELT and SPOT Tracking*
- *Proper Mindset (accept the possibility of a multi-day retrieve; don't stress about it...)*

WM Cockpit E-Bag

- *Cell phone*
- *Cell phone recharger*
- *2 flashlights*
- *Flint*
- *Multi function tool*
- *Mini hacksaw*
- *Para cord*
- *Survival blanket*
- *Pen*
- *AA batteries*
- *Mini first-aid kit*



Cold Weather Flying Considerations

- *Water ballast issues*
- *Clothing suggestions*
- *Cockpit procedures*
- *Snow/Icing risks*

January 2011 early morning Fairfield launch



Cold Weather Flying Considerations

Water Ballast Issues

(Ballast is good, but in winter???)

- 1. Unable to drop ballast, landing risk*
- 2. Structural damage risk*
- 3. CG creeping aft, flight controllability risk*

ANTI-FREEZE?????



Cold Weather Flying Considerations

Clothing



Cold Weather Flying Considerations

Clothing ... Landout & night retrieval



Cold Weather Flying Considerations

Cockpit Procedures/Practices

- 1. Practice reaching and operating controls*
- 2. Take off with forward canopy vent open*
- 3. Pee'ing*
- 4. Ear plugs*
- 5. Blanket*
- 6. Emergency-bag*
- 7. Hydration*



Cold Weather Flying Considerations

Snow/Icing

Canopy Frost/Ice

LBL



A Long Wave-Ridge Flight – 23 April 2014

1340km (OLC) 10 hrs 38 min task

Flight details

Points for the flight:	1384.33	Distance	Triangle
scoring distance:		1,242.14	142.19
Speed:		1,341.5 km	511.9 km
Duration:		128.0 km/h	48.0 km/h
Scoring class:	standard	10:28:42	10:39:24
Index:	108.0		
Club:	M-ASA Mid-Atlantic Soaring Assn		
Date of claim:	24.04.2014 02:45:44		
state:	IGC-File: Flight:		

Flight path

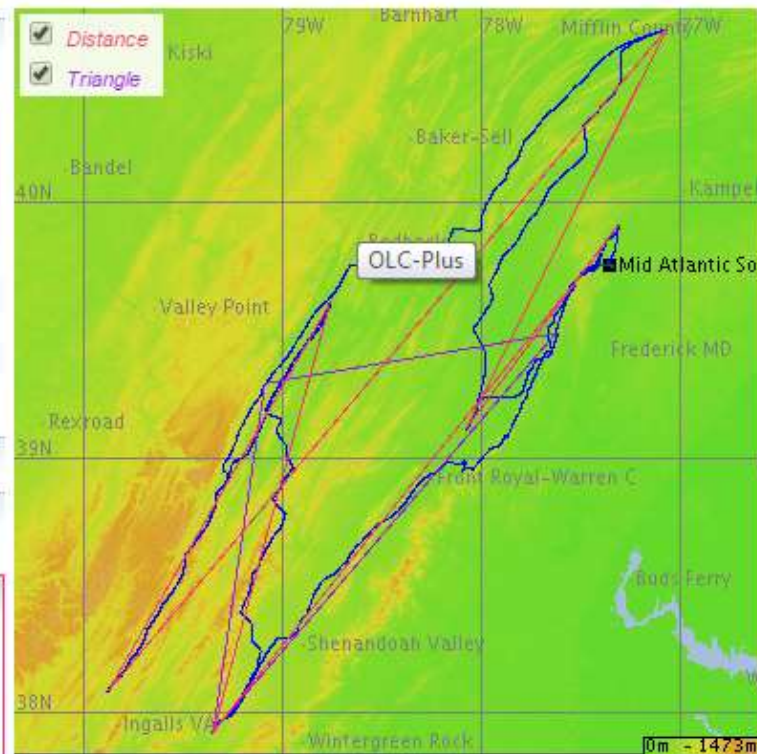
Statistics

Distance (OLC-Classic):

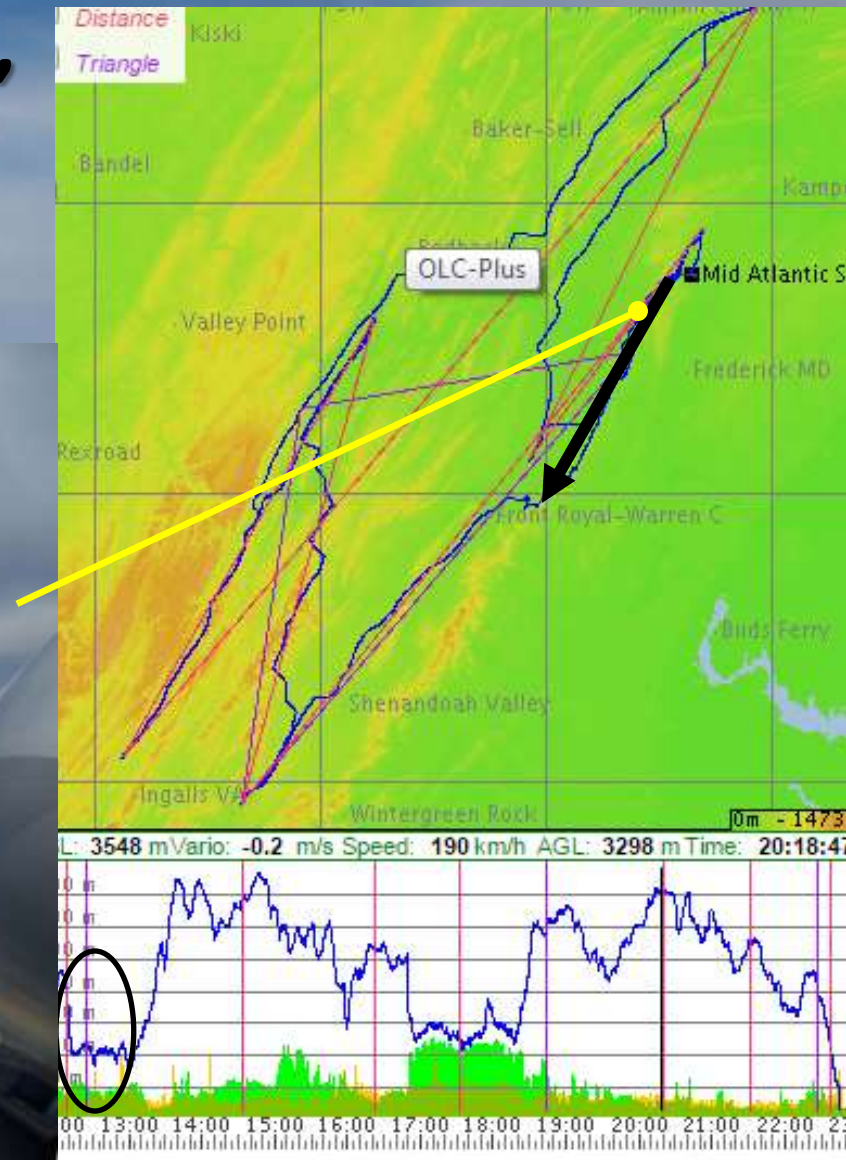
	s [km]	%Kurbel	N _{Aufwinde}	R/C [m/s]	E	V _d [km/h]
Leg1	269.45	15.11	11	1.32	892.22	111.04
Leg2	194.41	0.00	0	0.00	243.01	107.21
Leg3	195.34	0.00	0	0.00	143.42	167.91
Leg4	376.50	4.01	4	2.39	-293.91	135.27
Leg5	194.62	0.00	0	0.00	246.67	161.96
Leg6	111.19	0.00	0	0.00	68.85	102.01
Total	1341.51	4.56	15	1.57	373.99	128.03

Triangle (FAI-OLC):

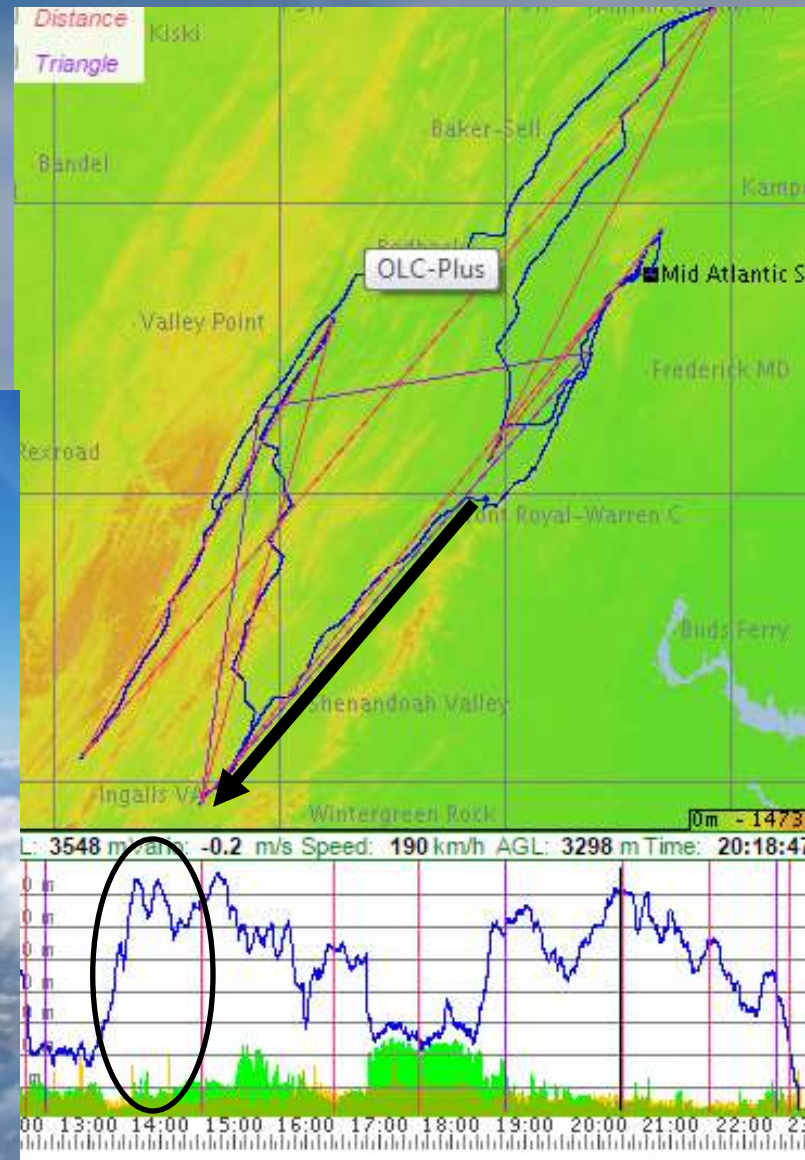
	s [km]	%Kurbel	N _{Aufwinde}	R/C [m/s]	E	V _d [km/h]
Leg1	35.83	20.33	6	0.68	49.42	57.64
Leg2	229.94	17.09	11	1.32	-406.97	107.20
Leg3	153.96	2.70	4	2.39	99.26	37.16



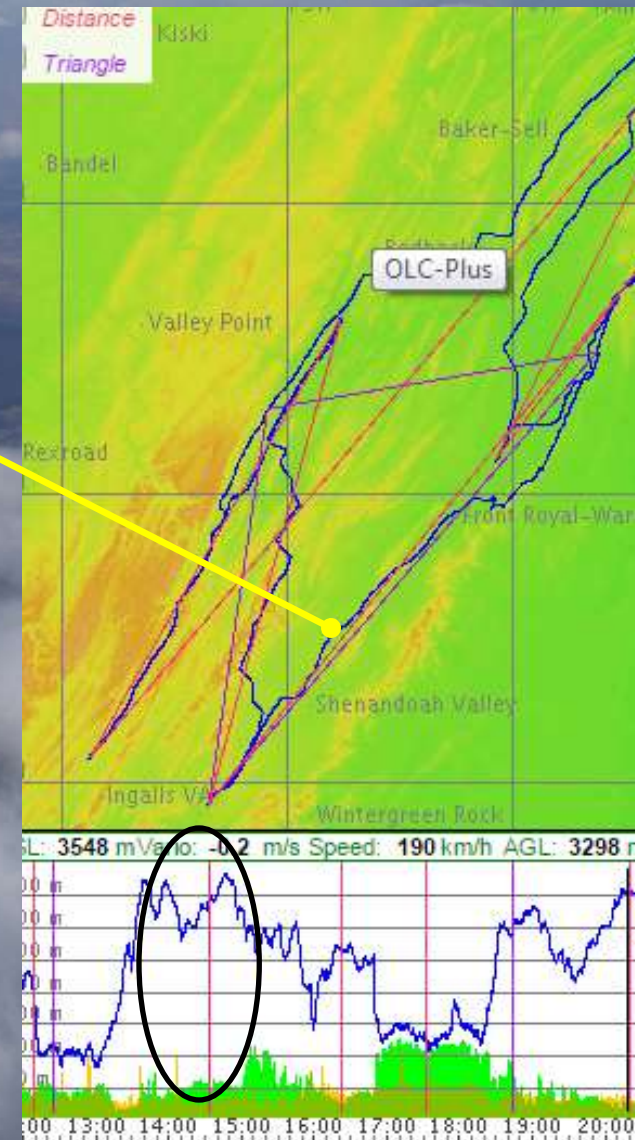
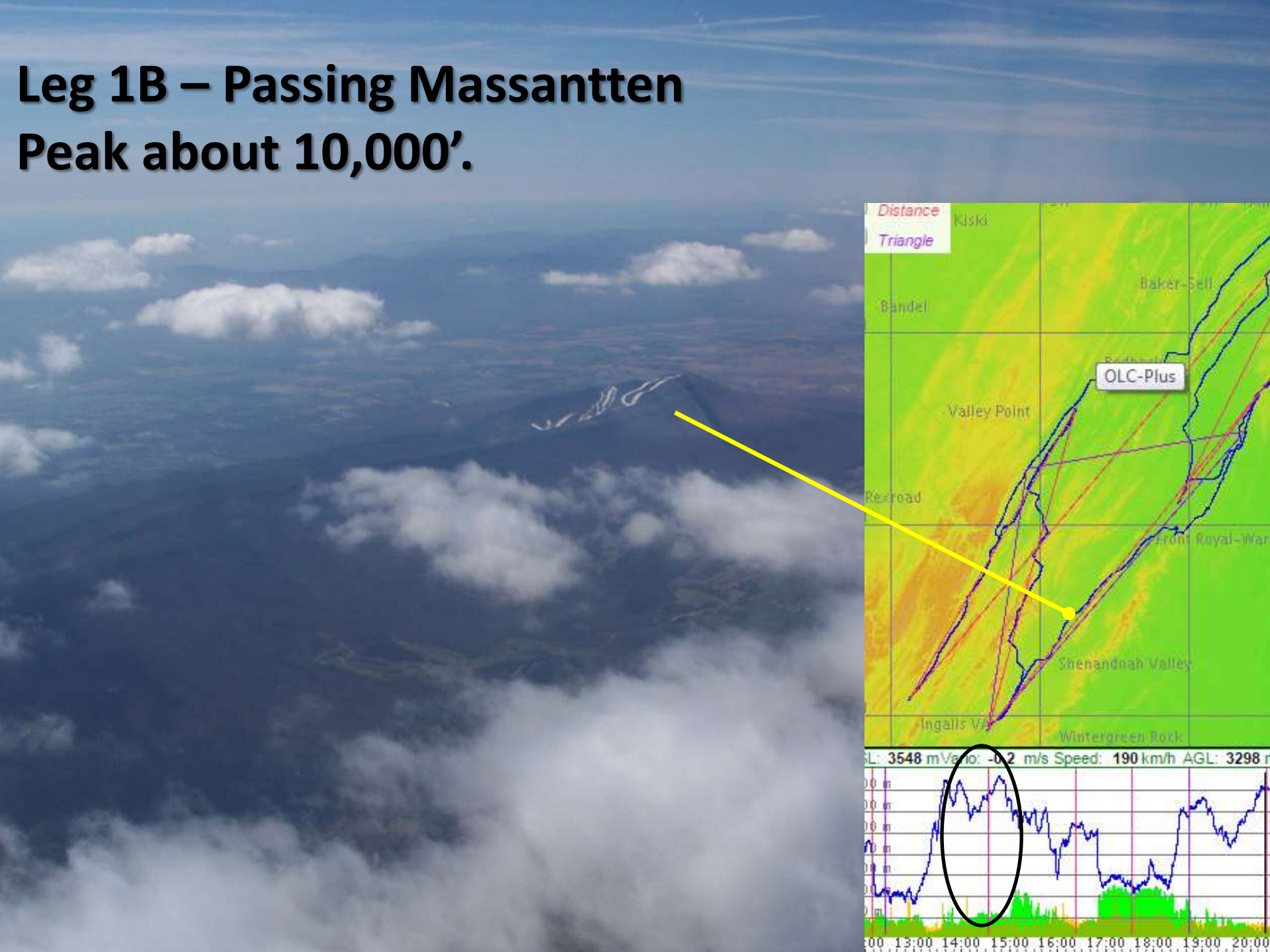
Leg 1A – No Wave at Fairfield, South bound on High Rock/ Blue Ridge



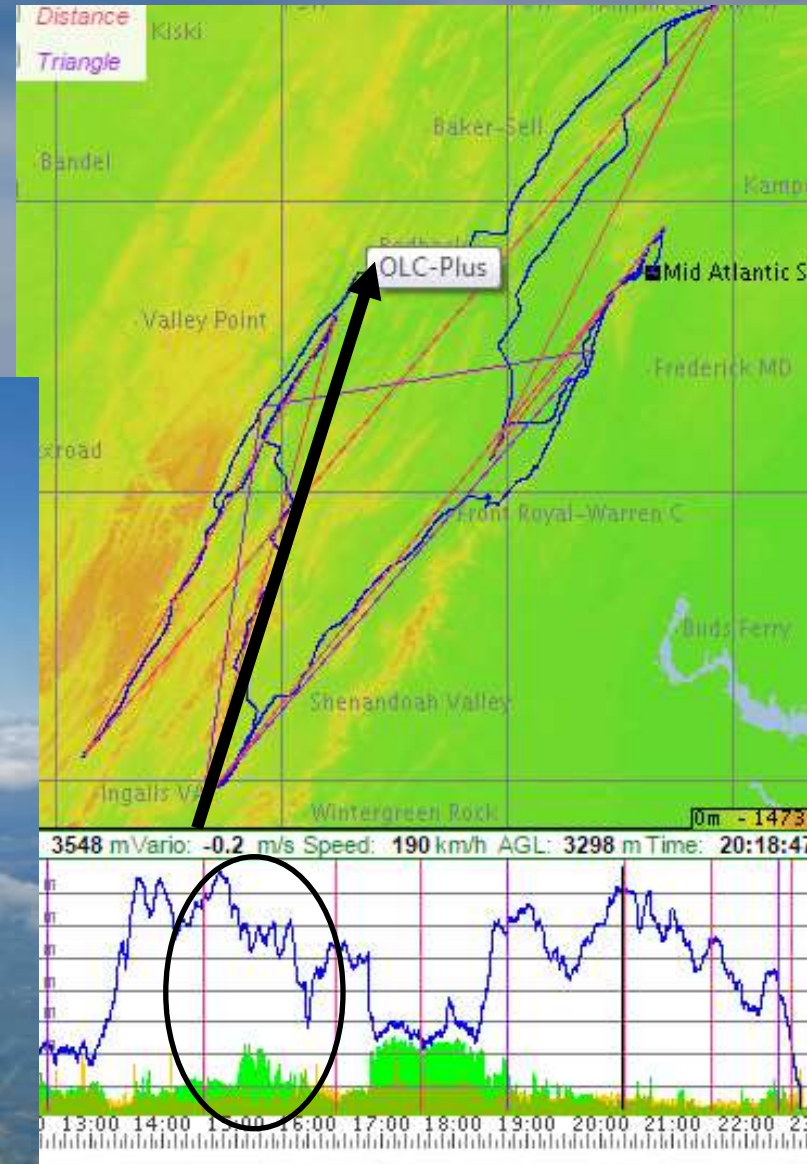
Leg 1B – Enter Wave from Blue Ridge, continue south down Shenandoah Valley in wave until blue



Leg 1B – Passing Massantten Peak about 10,000'.

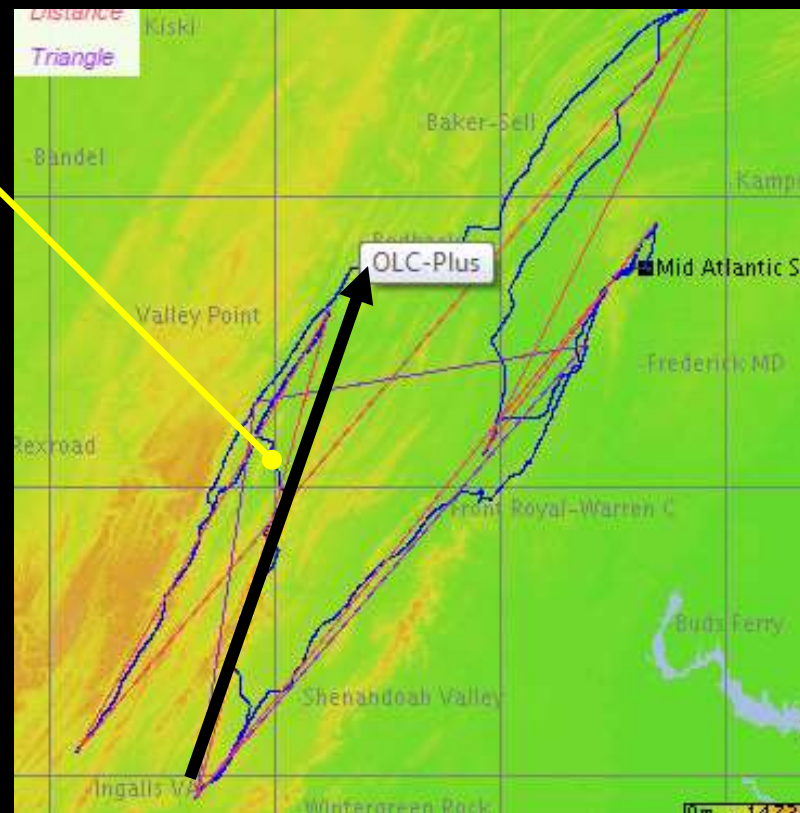


Leg 2 – Fly wave north and upwind to Main Ridge near Cumberland

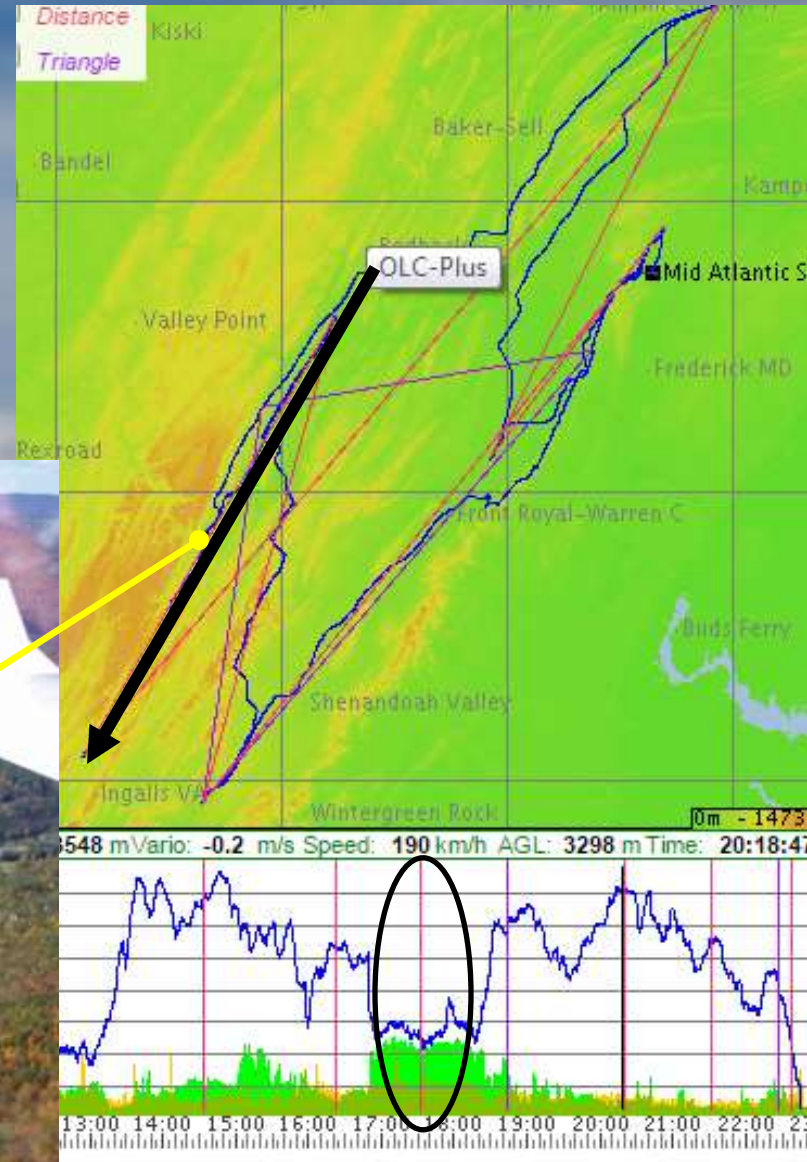




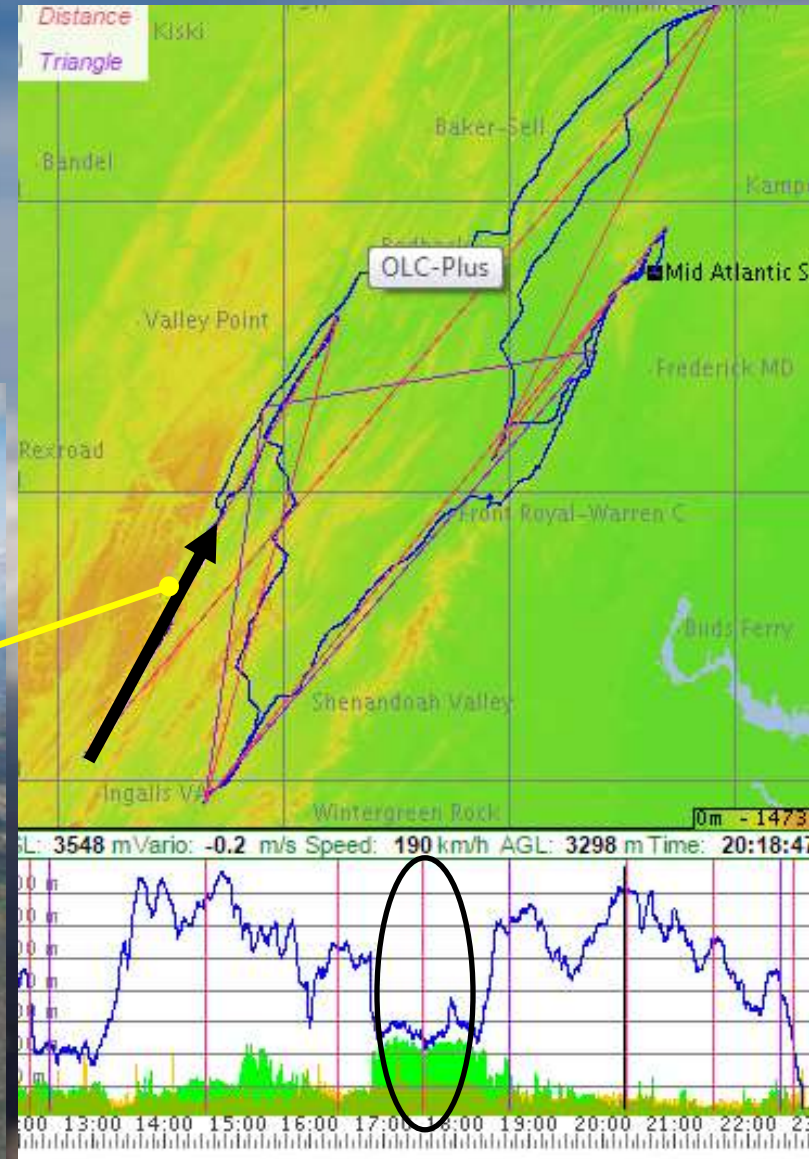
Leg 2 – Approaching Petersburg In Wave.



**Leg 3 – Forced down from
Wave near Petersburg.
Ran Main Ridge south
to Mountain Grove.**



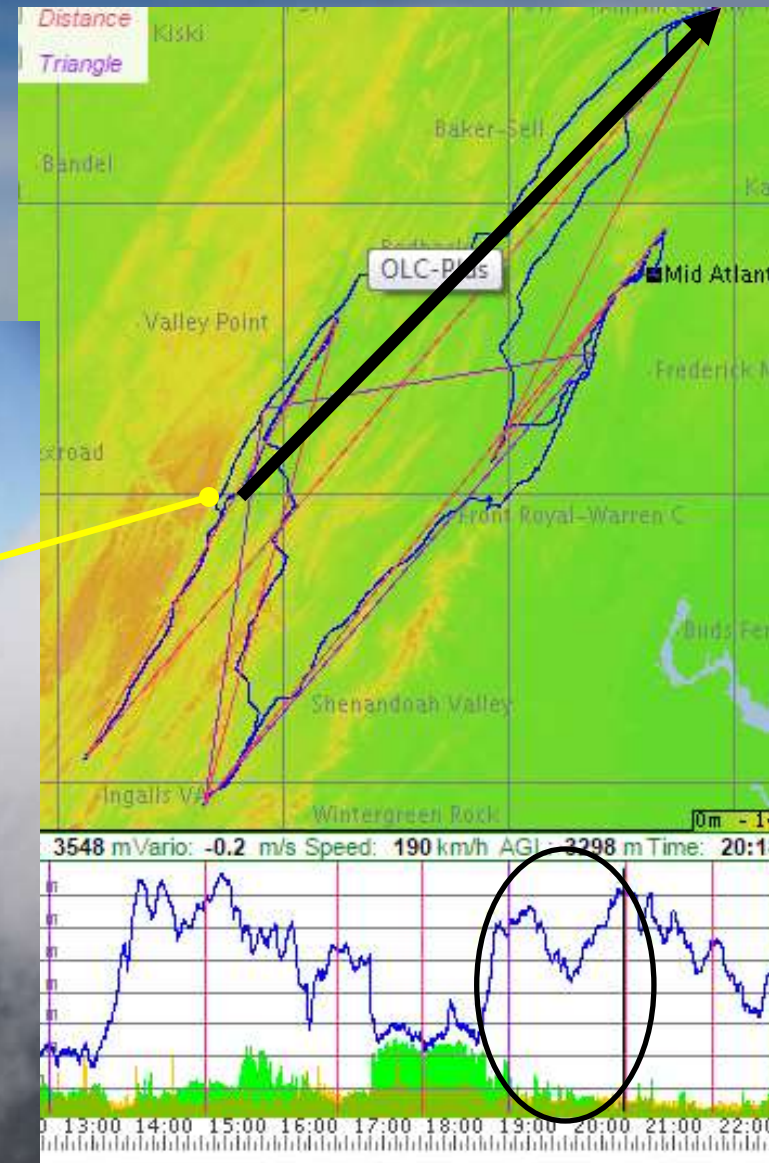
**Leg 4a – Heading back north
on Main Ridge. Snowy Mtn
behind and Seneca Rock
ahead.**



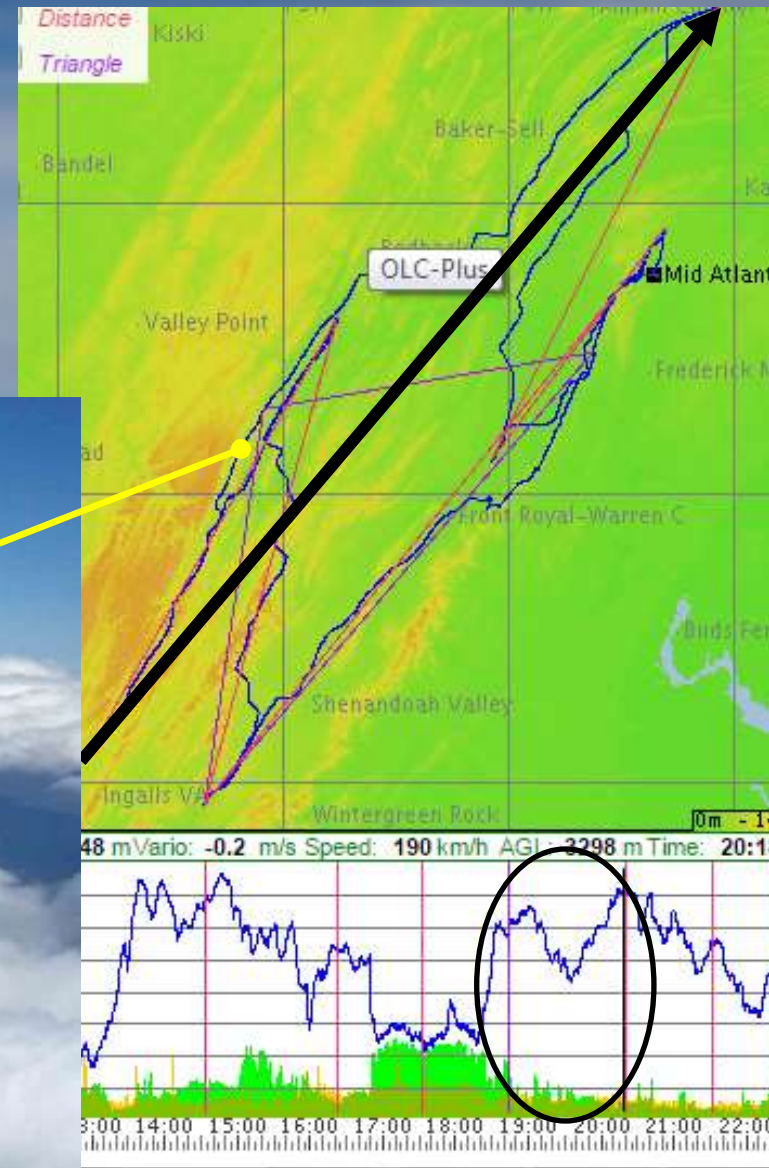
Leg 4 A-B Reenter wave near Petersburg.



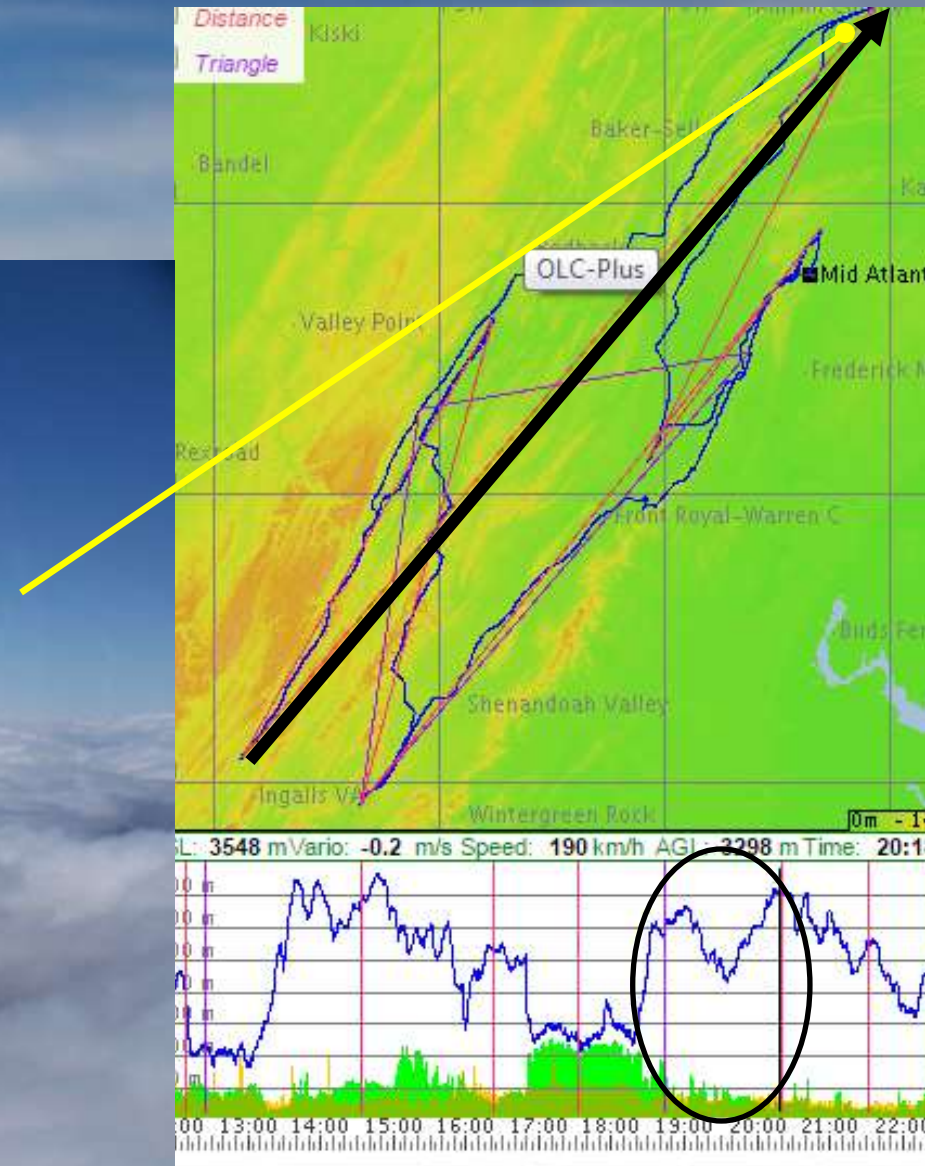
10kts initial wave lift



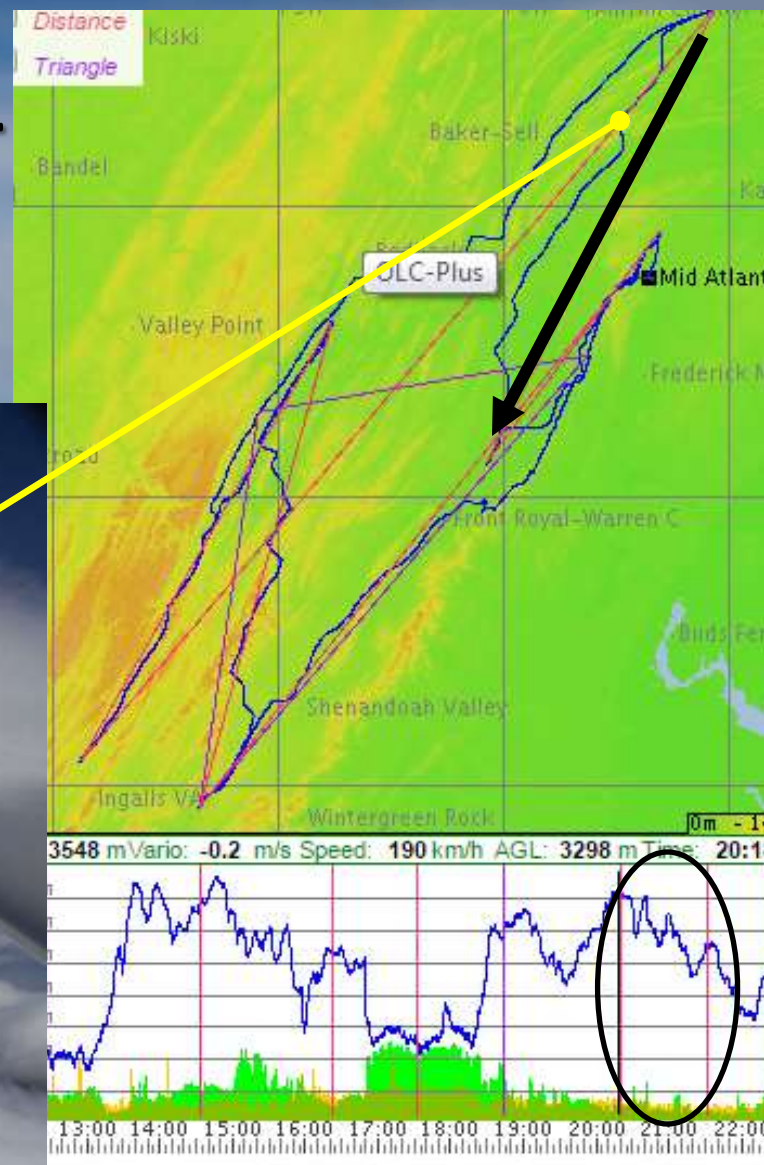
Leg 4B -- Running primary wave north toward Cumberland.



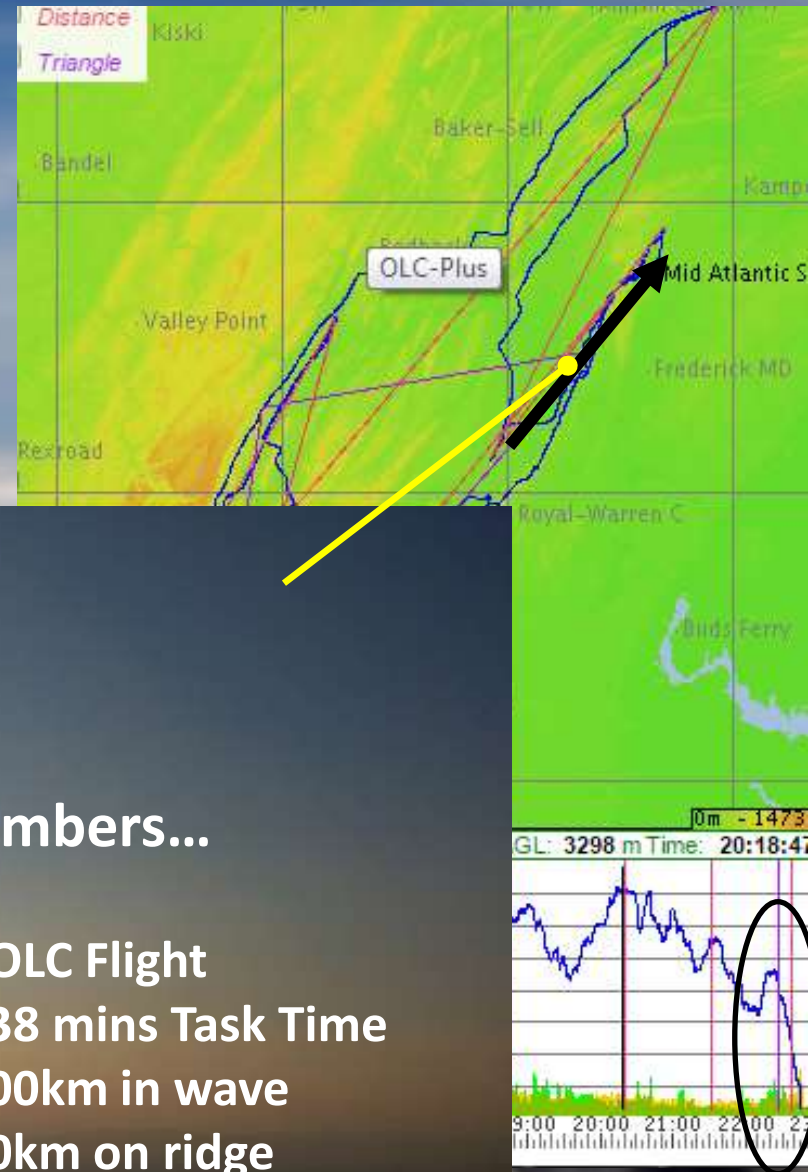
Leg 4 (377km)– Solid deck to north ends leg 4.



**Leg 5 – Back south and down-
wind in wave – starting the end-
game with beautiful lennies.**



Leg 6 – Turning for Fairfield, transitioning from wave to High Rock ridge to thermals.



Final Numbers...

1341 Km OLC Flight
10 hours 38 mins Task Time
About 1000km in wave
About 300km on ridge