



HIGH FLYER



The Official Newsletter of High Flights Soaring Club, Inc
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View from the APIS in flight. Looking towards Calhan. Photo by John Scott

Club and Member Notes

The club roster and duty schedule are available on-line at the club website. **Members are responsible for knowing when they have duty!**

<http://www.highlights.com/members/roster/roster.html>

<http://www.highlights.com/members/sched/currentsched.html>

You can now access the Glider Reservation page directly:

<http://www.mcsi.com/hfsc/reservations.dll>

Next Board Meetings – Sep 13th & Oct 11th. All club members are invited (encouraged) to attend. Board meetings are held in the HFSC Ops Trailer .

We need to begin planning for the annual meeting. If you have an suggestions for location or the program, let a board member know.

Mary Hoddinott has resigned from the club. Her current work assignments have not been leaving her time to fly. She hopes to rejoin the club in the future. We wish Mary the best of luck and look forward to her return.

There is a new soaring weather forecast tool that has recently become available on the web, **XCSkies**. We have been using it this summer at HFSC and it has been giving good indications of the soaring weather. Various soaring weather parameters are presented on a Google Map background as color bands. The Google map can be panned and zoomed; terrain features are visible as well as cities and roads. It is easy to select an area of interest. There is also access to a graphic 3 day point forecast that incorporates winds aloft along with anticipated thermal strength and height as well as potential cloud base. Various subscriptions are available, but the most cost effective one is probably the \$30 annual. XCSkies: <http://www.xcskies.com/>

We need to take more care when tying down our 2 place gliders. It is critical that the Wing tip tie down ropes have some slack in them and not be tight. The inner tie down ropes should be snug. Tying the tips tightly puts excessive stress on the wings in strong wind conditions and can result in damage to the aircraft. The primary tie downs are the inner ones, with the tip tiedowns being for safety backup.

2008 Camp Schedule

The remaining camp for this year is Fall Colors Camp at Creede. The camp dates are **19-22 Sept**. If you are definitely coming, or definitely not, please let Jim Densmore know. To date we have 7 club members committed to attending. You should look for email from Jim soon with more camp details.

Update on Flying Badge Legs

This summer we have had some folks flying badge legs, specifically Silver Distance and Gold Altitude legs. There has been a lot of discussion on some of the rules, specifically, how to apply the 1% rule to Silver distance legs with remote starts and now to know you haven't gone into Class A airspace (Gold altitude is doable at Meadowlake, Marty Grove and John Scott both nearly did accomplished it, however it is tight. Basically a 10,000' climb in 11,000' of available airspace).

For Silver Distance with a remote start, the 1% rule is applied over the entire distance flown, not just the 50km leg. A remote start occurs if you fly a triangle task with the 50km leg not being the first leg or if you fly and out and return using the return leg as your 50km leg.

Below is the right up we received from Judy Ruprecht, The Badge Lady, on correcting logger altitude for both calibration error and local air pressure on the day of the flight. You should do these calculations prior to takeoff in order to determine what a safe altitude is for that day. In this case, it is the altitude displayed on the logger that is of interest as this is what Judy will use to determine the validity of your flight.

✓ Correcting FR data for instrument error

For all badges and most records, electronic barographs and Flight Recorders must be calibrated either within the 24 months before flight or within 2 months afterward. The calibration consists of columns of figures such as these:

Lab Altitude	Recorder Altitude
0	98
2000	2100
4000	4133
6000	6102

Interpolation is used to correct for instrument error between known values. In the example below, 492 is the post-flight pressure altitude recorded at the landing site and "X" is the calibrated altitude to be determined:

Lab Altitude	Recorder Altitude
0	98
"X"	492
2000	2100

Now, a spreadsheet comes in handy!

$$X = 2000 - ((2100 - 492) * ((2000 - 0) / (2100 - 98)))$$

X = 393.6 feet

- Using interpolation as above, jot down interpolated values for pre- and post-flight data points, Release, Low, High, Start and Finish Altitudes. These are *calibrated* altitudes corrected for instrument error *only*.
- Keep track of which events took place nearer take off time and which were closer to landing time.

✓ The final step: Correct for non-standard pressure

a) *SUBTRACT* the calibrated altitude at the average of the last 5 or 10 *pre-flight data points* from field elevation at the *take off site*. (A negative number may result.)

b) *SUBTRACT* the calibrated altitude of the average of the first 5 or 10 *post-flight data points* from field elevation at the *landing site*. (A negative number may result.)

c) *For any event near take off time, ADD* the number found in (a) to the calibrated altitude for that event.

d) *For any event near landing time, ADD* the number found in (b) to the calibrated altitude for that event.

These calculations yield true altitude corrected for both instrument error and non-standard pressure.

(Too much math? The sample 492-foot pressure altitude was recorded at a soaring site at 798' MSL. If not corrected for instrument error and non-standard pressure, a high point recorded shortly before landing would appear to be about 400 feet lower than it really was!)

Current Duty Schedule

<http://www.highlights.com/members/sched/currentsched.html>

Day	Date	Chief	Line	Tow
Saturday	30-Aug	tbd	Dub Wiltrot	Joe Personett
Sunday	31-Aug	Gil Gildersleeve	Kevin Brooks	Jim Pirtle
Saturday	6-Sep	Marsha Hawk	John Browning	Jamie Hosmer
Sunday	7-Sep	Frank Molli	Bruce Mozer	Jim Densmore
Saturday	13-Sep	Marty Grove	Cannon Willie	Joe Personett
Sunday	14-Sep	Mark Huff	Jim Van Namee	Paul Antoinette
Saturday	20-Sep	Creede C amp		
Sunday	21-Sep	Creede C amp		
Saturday	27-Sep	Bruce Mozier	Dylan Hyrkach	
Sunday	28-Sep	Steve Smith	Jennie Chiang	
Saturday	4-Oct	Dub Wiltrot	Cannon Willie	
Sunday	5-Oct	John Norton	Matt Neal	
Saturday	11-Oct	Frank Molli	John Browning	
Sunday	12-Oct	Gil Gildersleeve	Jim Van Namee	
Saturday	18-Oct	John Scott	Kevin Brooks	
Sunday	19-Oct	Mark Huff	Marsha Hawk	
Saturday	25-Oct	Marty Grove	Roger Wild	
Sunday	26-Oct	Steve Smith	Jennie Chiang	
Saturday	1-Nov	Bruce Mozier	Dylan Hyrkach	
Sunday	2-Nov	Dub Wiltrot	Cannon Willie	
Saturday	8-Nov	Frank Molli	John Browning	
Sunday	9-Nov	John Norton	Matt Neal	
Saturday	15-Nov	Gil Gildersleeve	Jim Van Namee	
Sunday	16-Nov	John Scott	Kevin Brooks	
Saturday	22-Nov	Mark Huff	Marsha Hawk	
Sunday	23-Nov	Marty Grove	Roger Wild	