

# Transition To Advanced XC and Contest Flying



Jerzy Szemplinski

# Licence

1-2 years from first flight

Local flying  
(training flights, instructing,  
aerobatics, intro)

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Licence

# Local XC

Not goal-oriented = cruisers



Local flying  
(training, instructing, aerobatics, intro)



Licence

# XC goal-oriented badges, diplomas, OLC

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Local XC

Not goal-oriented = cruisers

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Local flying

(training, instructing, aerobatics, intro)

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Licence

# Records - Contest

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XC goal-oriented  
badges, diplomas, OLC

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Local XC  
Not goal oriented = cruisers

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Local flying  
(training, instructing, aerobatics, intro)

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Licence

# Most pilots are:

Local XC

Not goal-oriented = cruisers  
and

Local flying

(training, instructing, aerobatics, intro)



# Why move to XC goal-oriented pilots group

New skills

(ridge, wave, lake breeze)

New places to fly

Recognition of achievements



# Obstacles to XC transition



Landouts

Navigation

Afraid of leaving comfort of airport reach

Instrumentation

Tow vehicles

Retrieve crew

XC capable glider



Landouts are fun  
Great story - every year field is  
shorter, lift is weaker, retrieve more  
challenging





# Navigation

Afraid to get lost





Afraid of leaving comfort of  
airport reach

The longer we are local pilots,  
the harder  
to break comfort



# Instrumentation

Basic instruments  
+ PDA/PNA - Map





Most mid-size cars with  
Class 1 hitch are able to tow  
in Ontario





# Retrieve crew

Make arrangement with club member

Family member

In worst scenario, hitch-hike back to the club, pick up trailer, organize helper





Any glider could be used for XC





Comfort when out of airport reach

**Landouts** – silver badge, short field landing on glider used for XC, participation in XC clinics

**Navigation** - reading maps, PNA

**Instrumentation** - basic + logger, PNA

**Tow vehicles** - arranged

**Retrieve crew** - arranged

**XC capable glider** - any glider



# Assigned XC flights and OLC

- 150 - 250 km – one leg not shorter than 50 km – no difference than flying around airport, just out of reach.
- Work on improving use of thermals, cloud streets, wind effect, get used to performance of glider, first landouts.
- Modify task instead of quitting - weather reading.



# Landout - our friend, not enemy

Expect several landouts in early stage  
of XC flights

Take notes and analyze why landed out

Forced by weather

Poor thermaling

Low-working band

Day too short – too long task

**TOO SLOW**

# Use of all resources

Articles

Web

Contest reports

Flight reports

Books

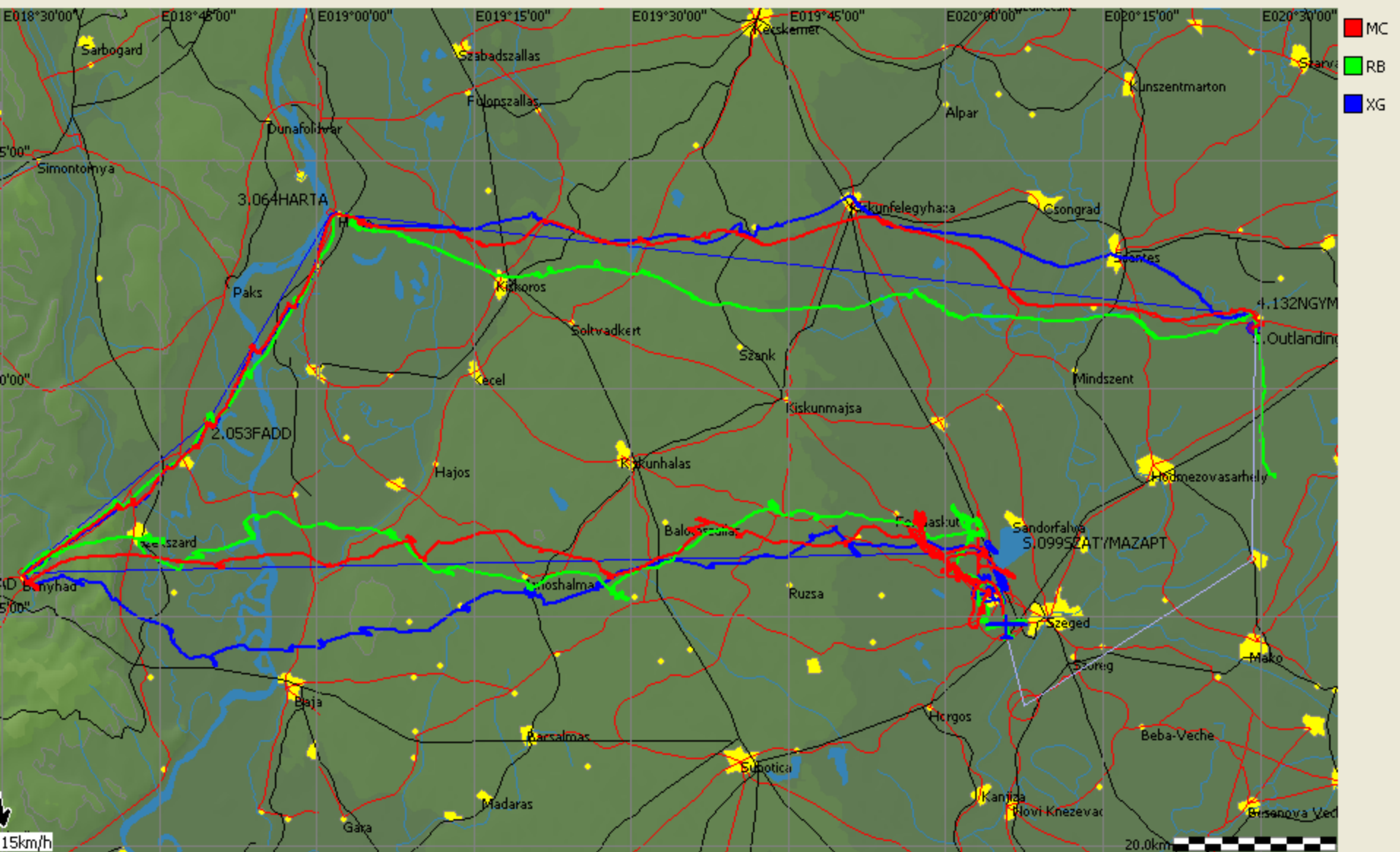
CAS seminars

XC clinics

# OLC

The best introduction to  
XC flying





Time	Alt.	Vario	Gsp.	dt	dH	AVario	AGsp	Dis.Done	L/D	Dis.Task	Vt	Vavg.	L/D Finish	Wind
13:05:12	78m	---m/s	---km/h										-332986	348°/15k
13:06:16	75m	---m/s	0km/h										-57309	349°/0kr
13:14:02	74m	---m/s	---km/h										-53805	349°/0kr



# Every one needs mentor(s)

- At every stage of flying we need mentor
- Mentor should be at least two stages more advanced
- At higher stage of flying the pool of mentors shrinks
- World champions need mentors as well

# Flying buddy

Find person at the same level

Share information after flight

Analyze and compare

Work together to reach same goal

Motivate each other

Compete with each other

# Advanced XC - badge flights

300 km open – gold

300 km – diamond

500 km – diamond

750 km – diploma

1000 km – diploma

Altitude flights

3000 m / 5000 m

Sky is the limit

# Why Contests



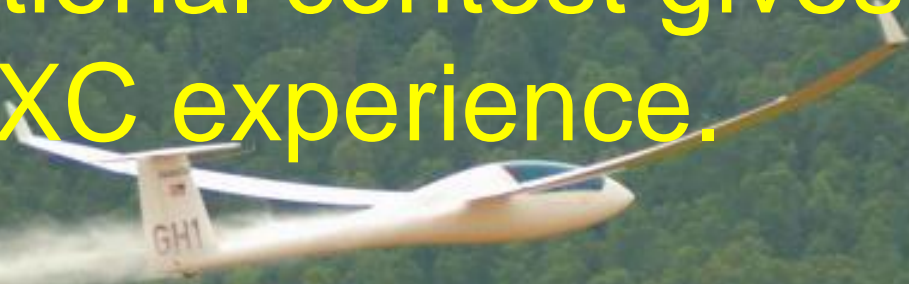


# Benefits of contest flying

Each national contest gives us 3 years extra of XC experience.

Each provincial or regional contest gives us 1 to 2 years XC experience.

Decision to fly particular level of contest should depend on our level of experience.





# Opportunity to fly with the best pilots





Opportunity to fly in challenging weather



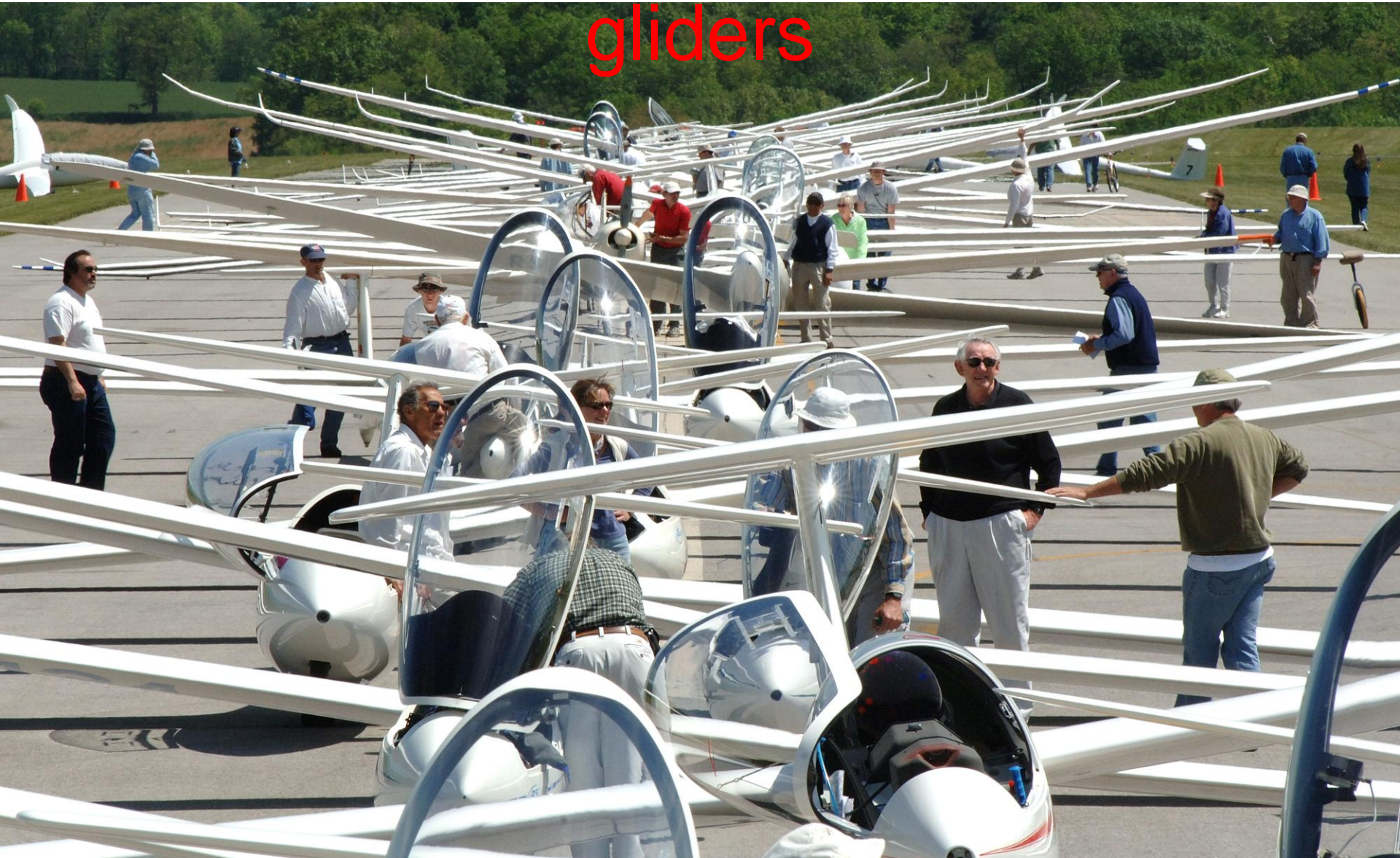


All is organized, time to relax





Opportunity to learn from other  
pilots, flying with large group of  
gliders







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# Records flying – new challenge



# Records

Records as specialization

Records as part of goal flying

Preparation for records is very  
time-consuming

All must be organized in advance

Good planning is the key to success

It is easier to fly than to do  
paperwork after flight

Flying records is very lonely

Records can last days or years

It is great personal achievement





Records can take years of planning



# CANADIAN RECORDS (as of 10 Nov 2010)

T A record set entirely within Canada – listed only if a "C" record is flown.  
C Indicates a record by a Canadian citizen originating outside the country.  
(These are awarded only if a greater "Territorial" record does not exist.)

RECORD	OPEN	15 METRE	CLUB	FEMININE	MULTIPLACE
<b>DISTANCE (km)</b>					
3.1.4a Free distance	Marsden / Apps 1093.0 1984	Mike Apps 1093.0 1984	Mike Glatfelter 480.6 2002	Ursula Wiese 607.0 1986	Chester Zwarych (R Adams) 495.0 1986
3.1.4b Free out & return	Tim Wood 690.2 T 2010 Adam Zieba 1016.4 C 2010	Ian Spence 596.7 T 2009 Adam Zieba 1016.4 C 2010	Tim Wood 628.1 T 2010 Adam Zieba 956.4 C 2010	not claimed Trace Wark 750.2 C 2003	Ernst Schneider (S Midwinter) 393.3 T 2008 Charles Yeates (Kris Yeates) 464.8 C 2008
3.1.4c Free 3TP dist.	Tim Wood 1002.4 T 2008 Adam Zieba 1474.1 C 2010	Tim Wood 1002.4 2008 Adam Zieba 1474.1 C 2010	Tim Wood 882.1 T 2008 Adam Zieba 1387.1 C 2010	Sue Eaves 508.7 T 1995 Trace Wark 592.6 C 2000	Trevor Florence (J King) 689.0 2002
3.1.4d Free triangle dist.	Tim Wood 481.0 2007	Jerzy Szemplinski 539.6 2009	Tony Burton 515.7 2004	Trace Wark 523.2 C 2007	Charles Yeates (Kris Yeates) 590.0 C 2008
3.1.4e Distance to goal	Marsden / Apps 707 1984	Mike Apps 707 1984	Tim Wood 412.8 T 2010 Adam Zieba 557.7 C 2010	Antonia Williams 305.0 C 1975	C Zwarych (H McColeman) 310.0 T 1984
3.1.4f 3TP distance	Nick Bonnière 818.1 T 2010 Adam Zieba 1474.1 C 2010	Tim Wood 642.7 T 2007 Adam Zieba 1474.1 C 2010	Nick Bonnière 719.9 T 2010 Adam Zieba 1387.1 C 2010	not claimed	Charles Yeates (Kris Yeates) 406.5 C 2009
3.1.4g Out & return dist.	Tim Wood 690.2 T 2010 Brian Milner 1128.9 C 1999	Tony Burton 652.3 T 1993 Walter Veir 1032.1 C 1993	Tim Wood 628.1 T 2010	Ursula Wiese 328.0 1984 Trace Wark 510.3 C 2002	Dave Marsden (Ed Dumas) 421.5 T 1979 Charles Yeates (Kris Yeates) 506.9 C 2007
3.1.4h Triangle distance	Hal Werneburg 803.7 T 1982 Peter Maak 1007.0 C 1987	Hal Werneburg 803.7 T 1982 Peter Maak 1007.0 C 1987	Tony Burton 515.7 2004 Spencer Robison 655.9 C 2003	Jane Midwinter 317.6 T 1988 Trace Wark 502.9 C 2006	John Firth (Dan Webber) 510.4 T 1986
<b>ALTITUDE (m)</b>					
3.1.4k Absolute Altitude	Bruce Hea 10485 T 1981 Walter Chmela 12449 C 1974	15m records began in 2007, earlier times shown are "starter" values		Deirdre Duffy 8986 T 1991 A Czerwinski 9772 C 1969	Bob Shirley (P Campbell) 9083 T 1961 Walter Chmela (Van Maurik) 10390 C 1975
3.1.4m Gain of Height	Dave Mercer 8458 1995			Deirdre Duffy 6575 1991	Bob Shirley (P Campbell) 7102 1961
<b>SPEED, A (km/h)</b>					
3.1.4j 100 km	David Mercer 141.5 T 2004 Dale Kramer 148.1 C 1999	David Mercer 141.5 T 2004 Dale Kramer 148.1 C 1999	David Mercer 133.0 2004	Trace Wark 105.0 C 2003	Dave Marsden (H Jones) 98.1 T 1975 Charles Yeates (Kris Yeates) 125.6 C 2006
SAC 200 km	John Firth 110.6 T 1984 Charles Yeates 116.3 C 1994	John Firth 95.2 2007	Tony Burton 99.0 2003	Trace Wark 99.9 C 2002	Lloyd Bungay (Tony Burton) 76.0 T 1983 D Springfield (P Templeton) 108.5 C 2002
3.1.4j 300 km	Kevin Bennett 113.1 T 1988 Peter Maak 148.9 C 1985	Kevin Bennett 113.1 1988	Tony Burton 101.4 T 2008 Dave Springfield 108.0 C 2006	Trace Wark 99.1 2001	A Kowicz (John Brennan) 87.1 T 2006 Ian Spence (J-R Fallu) 128.5 C 1991
SAC 400 km	John Firth 99.0 T 1987 Rolf Siebert 140.1 C 2004	Jerzy Szemplinski 94.8 T 2009 Walter Veir 111.8 C 1990	Tony Burton 103.3 T 2003 Rolf Siebert 128.9 C 2004	Trace Wark 95.0 C 2002	A Kowicz (A Marcellissen) 85.0 C 2007 Charles Yeates (Kris Yeates) 111.7 T 2009
3.1.4j 500 km	Walter Veir 105.7 T 1991 Peter Maak 151.2 C 1985	Walter Veir 105.7 1991	Tim Wood 78.6 T 2010 Trace Wark 97.4 C 2006	Trace Wark 112.9 C 2006	John Firth (Dan Webber) 88.8 C 1986
3.1.4j 750 km	Willi Krug 108.8 T 1982 Spencer Robison 118.7 C 2003	Willi Krug 108.8 1982	Spencer Robison 103.6 C 2003	not claimed	not claimed
3.1.4j 1000 km	Peter Maak 106.5 C 1987	Peter Maak 106.5 C 1987	not claimed	not claimed	not claimed
<b>SPEED, O&amp;R (km/h)</b>					
SAC 300 km	Tim Wood 124.8 T 2010 Walter Veir 191.3 C 1989	Hal Werneburg 115.2 1983 Walter Veir 191.3 C 1989	Bruce Friesen 113.6 T 2002 Jerzy Szemplinski 125.4 C 2007	Ursula Wiese 59.6 T 1984 Trace Wark 132.3 C 2000	Ernst Schneider (D Smith) 112.7 2008
3.1.4i 500 km	Kevin Bennett 126.3 T 1992 Walter Veir 150.9 C 1996	Kevin Bennett 126.3 T 1992 Walter Veir 150.9 C 1996	Tim Wood 98.1 T 2008 Jerzy Szemplinski 125.4 C 2007	Trace Wark 99.6 C 2002	Charles Yeates (Kris Yeates) 79.2 C 2007
SAC 750 km	Walter Veir 145.0 C 1994	Walter Veir 145.0 C 1994	not claimed	not claimed	not claimed
3.1.4i 1000 km	Brian Milner 147.0 C 1999	Walter Veir 142.6 C 1993	not claimed	not claimed	not claimed
<b>SPEED, GOAL (km/h)</b>					
SAC 100 km	David Mercer 167.0 T 2004 Rolf Siebert 183.7 C 2004	Dave Mercer 167.0 2004	David Mercer 156.9 T 2004 Rolf Siebert 169.0 C 2004	Trace Wark 106.4 C 2002	Trevor Florence (N Marsh) 105.1 T 2000 Charles Yeates (Kris Yeates) 127.0 C 2009
SAC 200 km	Nick Bonnière 131.2 T 2010 Adam Zieba 151.7 C 2010	Tim Wood 128.2 T 2008 Adam Zieba 151.7 C 2010	Nick Bonnière 115.4 T 2010 Adam Zieba 142.5 C 2010	Trace Wark 129.1 C 2000	Trevor Florence (J King) 91.5 2002
SAC 300 km	Tim Wood 128.2 T 2008 Adam Zieba 151.7 C 2010	Tim Wood 128.2 T 2008 Adam Zieba 151.7 C 2010	Tim Wood 112.8 T 2008 Adam Zieba 142.5 C 2010	not claimed	Jock Proudfoot (G Fitzhugh) 70.2 C 1981
SAC 400 km	Tim Wood 92.7 2010 Adam Zieba 151.7 C 2010	Tony Burton 81.5 1990 Adam Zieba 151.7 C 2010	Adam Zieba 85.6 T (starter) Adam Zieba 142.5 C 2010	not claimed	not claimed
SAC 500 km	Dave Marsden 97.1 T 1970 Adam Zieba 151.7 C 2010	Charles Yeates 77.1 T 1966 Adam Zieba 151.7 C 2010	Adam Zieba 100.4 T (starter) Adam Zieba 142.5 C 2010	not claimed	not claimed

# Distance records need long daylight





Most of the time you are on your own





Use any opportunity to fly  
life is short