

A white COZY aircraft is shown in flight, banking to the left. The aircraft has a high-wing configuration and a T-tail. The registration number N44CZ is visible on the tail. The background is a lush green landscape with fields and some buildings in the distance.

# COZY AIRCRAFT FORUM

Marc J. Zeitlin

July 29, 2004

1:00 PM - Forum Tent #11

# What Will I Talk About?



- *Thanks Nat!*
- *Tell You Who I Am*
- *Why Build a COZY MKIV*
- *My Building Experience(s)*
- *Trip Examples*
- *Conclusions*
- *Questions and Answers*

# Nat and Shirley Puffer

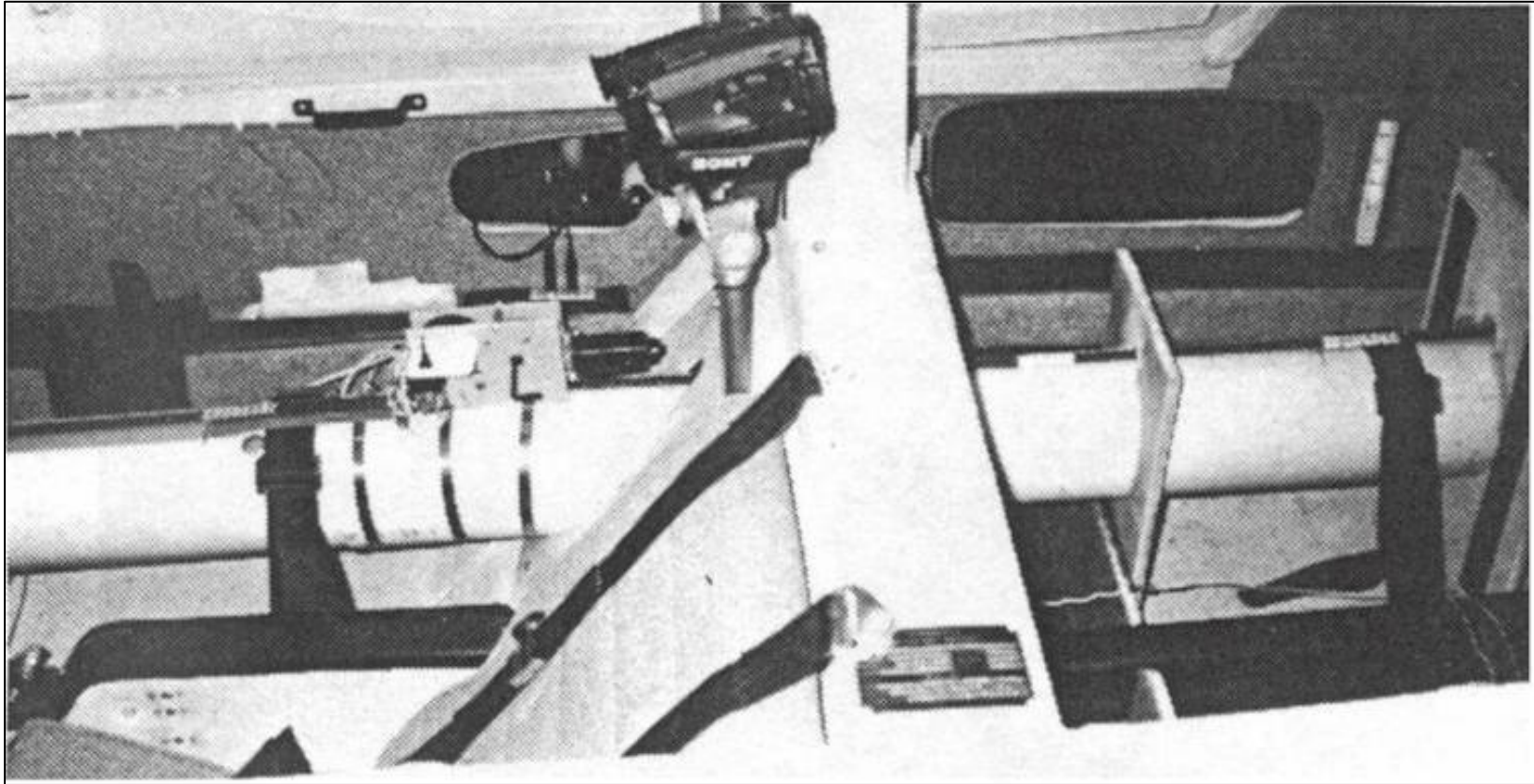


July 19, 2006

COZY Forum Slide Show

Slide #3

# Nat's Rear C.G. Testing Apparatus



# Who The Heck Am I?



- Biography / Resume'
  - <http://marc.zeitlin.home.comcast.net/bio.html>
- Loved planes since 3 years old - Built zillions of model aircraft
- Thesis - “Design, Construction and Testing of an Electromagnetically Launched Model Glider”
- Built Quickie Q2
- Built COZY MKIV #386, N83MZ
- Started / Administer COZY Builders Web Page and Mailing List

# Why a COZY MKIV?



# COZY MKIV Cost



- Low End - \$25K to \$40K
  - High Time Engine (maybe Auto Conversion)
  - Good Scrounging
  - Minimum Instruments - VFR Only
- Mid-Range - \$40K to \$75K
  - Some Prefab (not much)
  - Rebuilt Engine
  - High end VFR - Low End IFR Panel
- High End - \$75K to \$120K
  - Lots of Prefab components / paid help
  - New Lycoming
  - Complete Latest IFR Stack Panel

# Support Methods



- Nat Puffer and the COZY Newsletters
- COZY Mailing List
  - [http://www.cozybuilders.org/mail\\_list/](http://www.cozybuilders.org/mail_list/)
- Unofficial COZY Builders Web Page
  - <http://www.cozybuilders.org/>
- Builder's Web Pages (links from UCBWP)
- Canard Aviator's Mailing List
  - <http://groups.yahoo.com/group/canard-aviators/>
- CSA Newsletter
  - [http://www.cozybuilders.org/ref\\_info/other\\_news.html](http://www.cozybuilders.org/ref_info/other_news.html)
- Canard Zone Forum
  - <http://www.canardzone.com/forum/>
- Canard Aviation, Inc. Forum (Commercial Site)
  - <http://www.canardaviation.com/forum/>



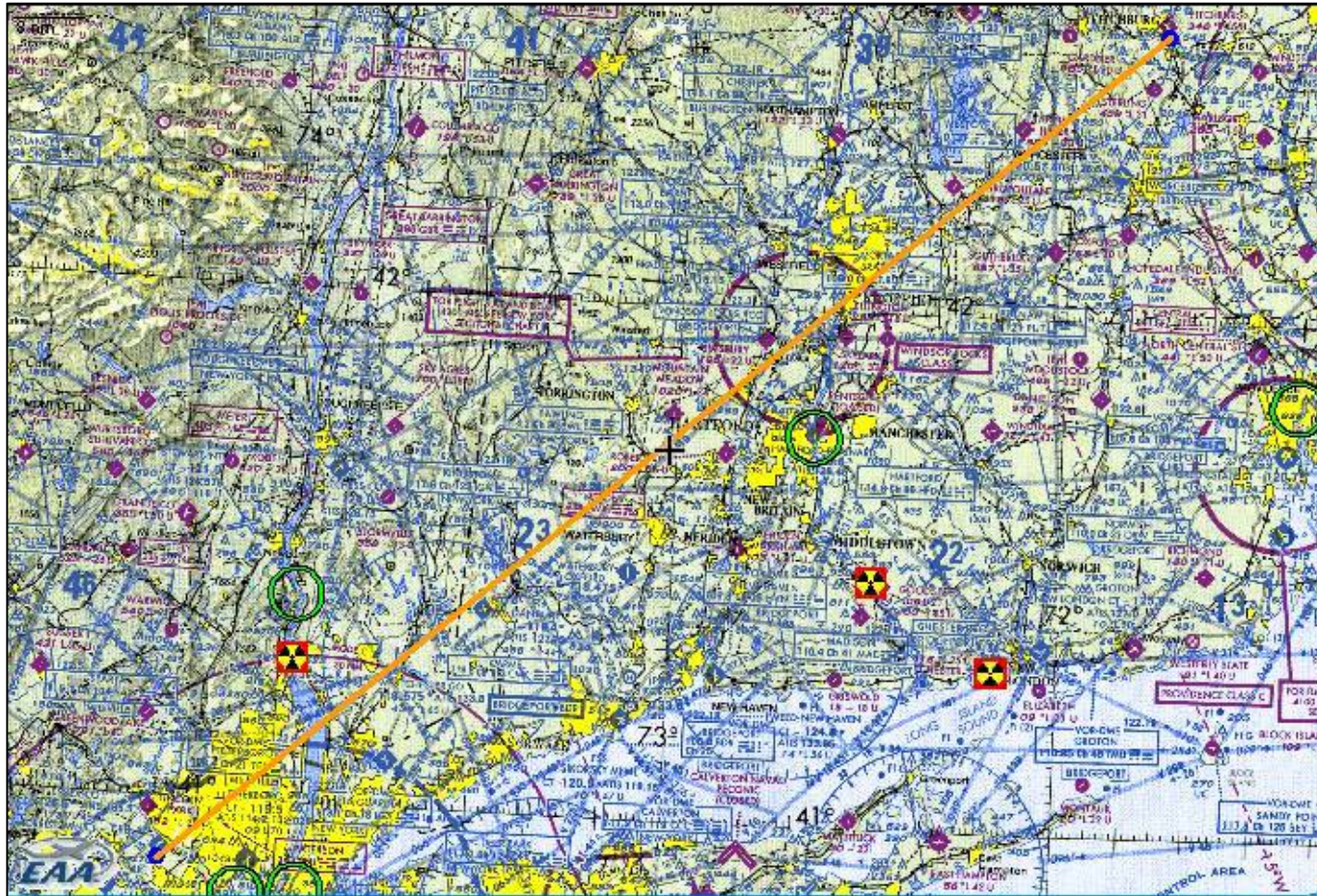
# My Building Experiences



- Quickie Q2 in a warehouse
- COZY MKIV in a small basement (seen here)
- COZY MKIV in a 2-car garage (most common)
- Other Folks Experiences



# Trip #1: FIT to CDW



July 19, 2006

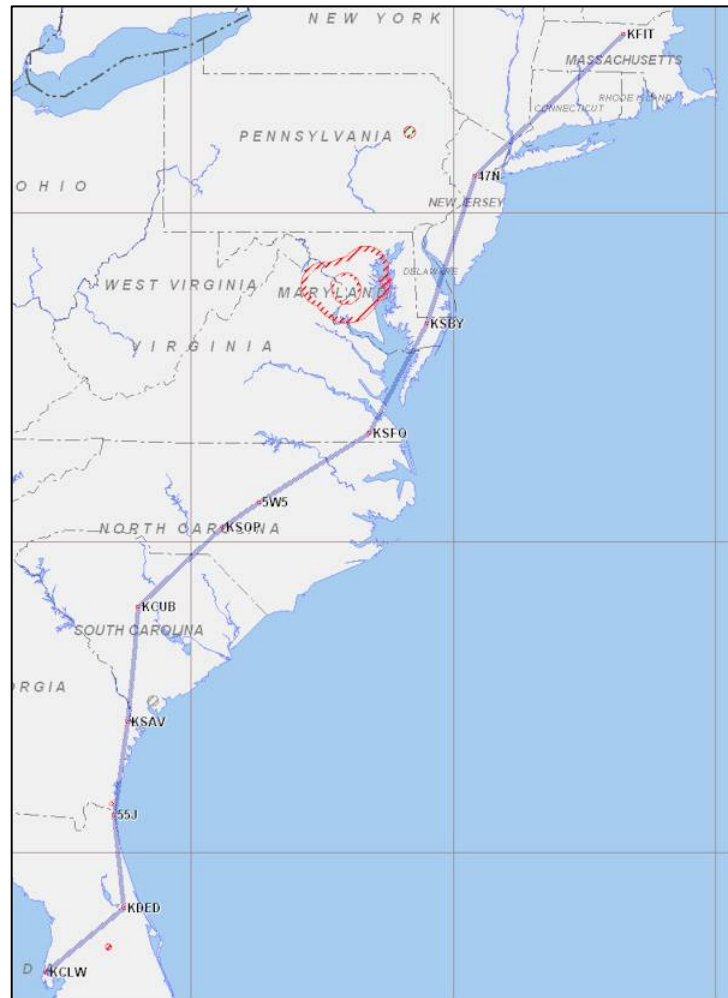
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Slide #10

# Trip #2: FIT to HTO



# Trip #3: FIT to CLW

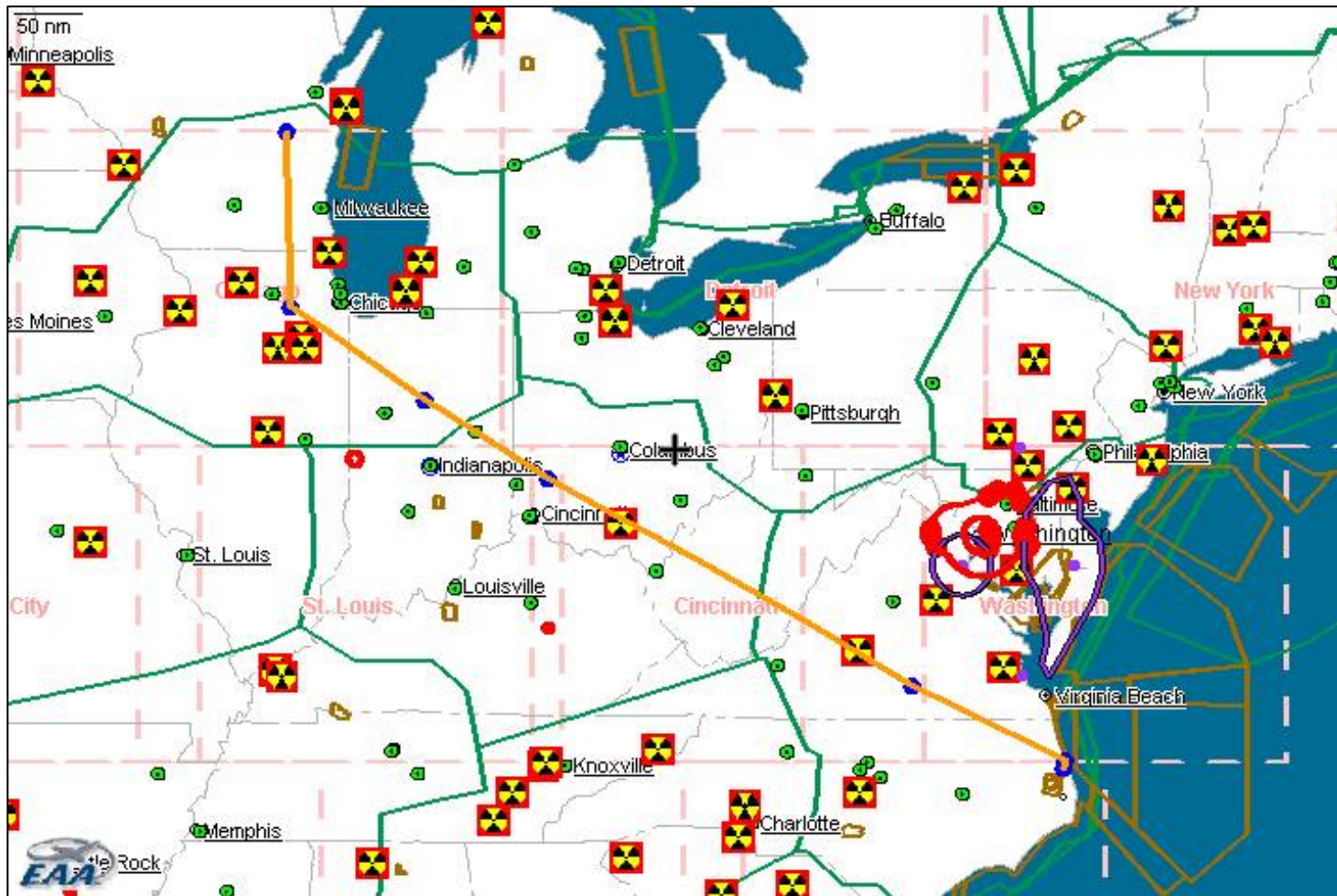


July 19, 2006

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Slide #12

# Trip #4: Airventure Cup



# Range Of Airports - RDU



Raleigh - Durham  
International Airport  
Raleigh, NC  
10,000 ft. x 150 ft.



# Range Of Airports - AFN



Jaffrey, NH  
2900 ft. x 40 ft.

# Range Of Airports - 1B2

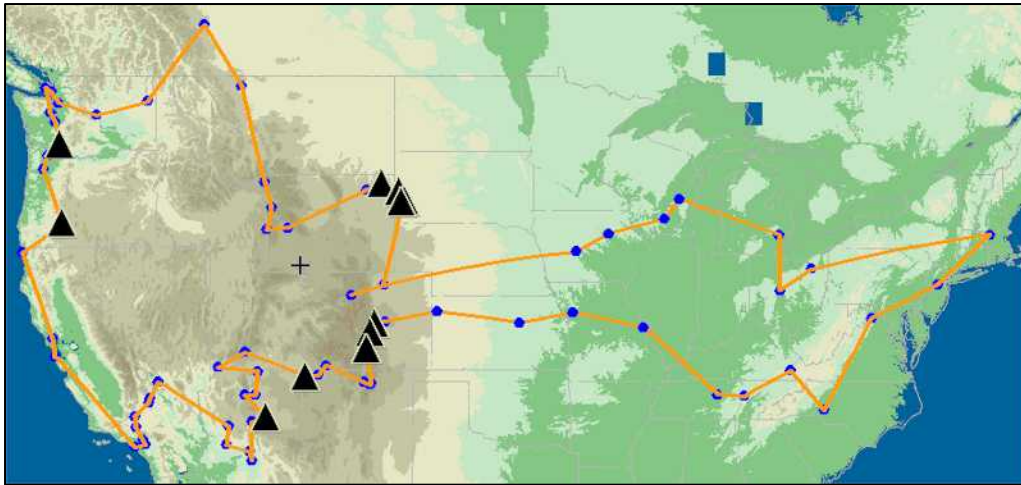


Katama Airpark  
Martha's Vineyard, MA  
(4000' Turf - haven't  
actually GONE here  
yet.....)

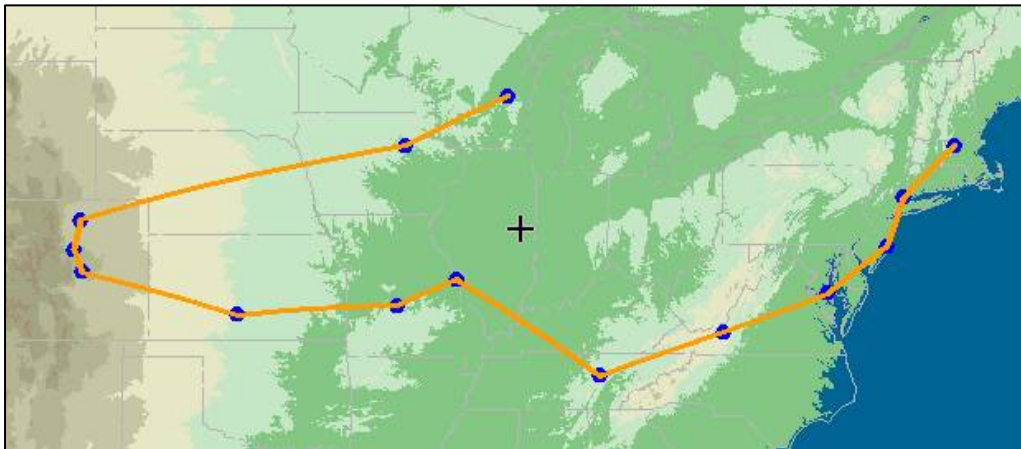




# Extended Trip - USA Tour



Original Plan –  
6 months in the making



Actual Trip –  
weather and equipment  
failures

# Conclusions

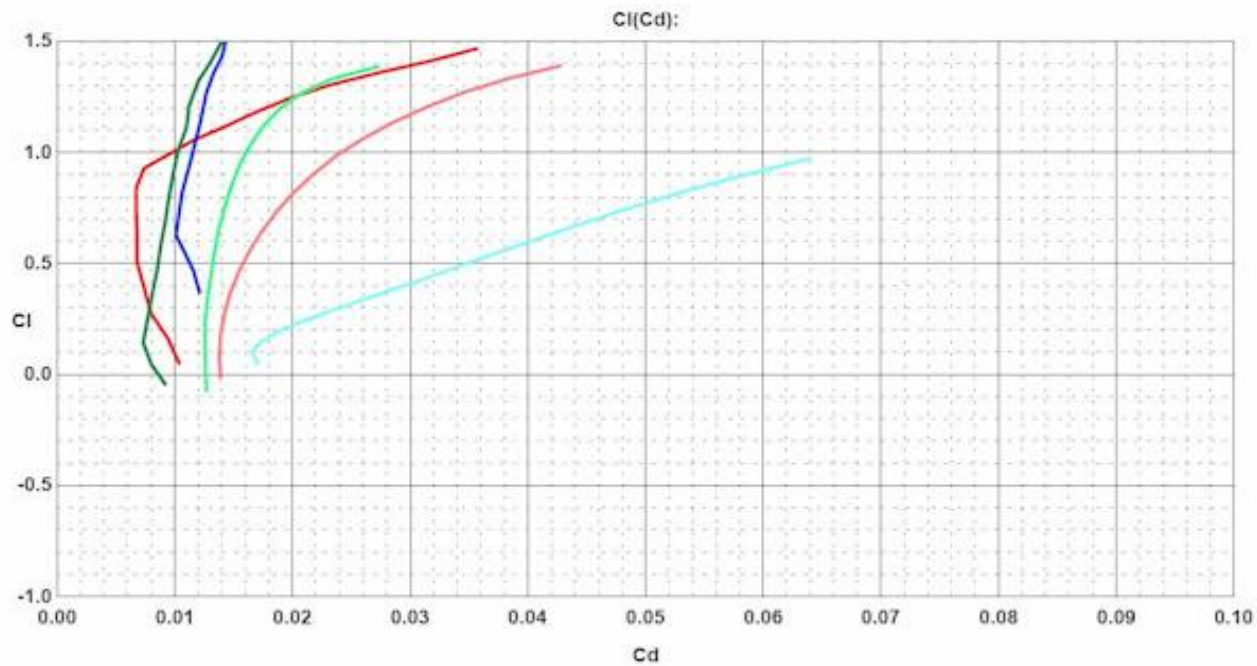


- Great Plane!
- Great People!
- Great Community!
- Great Capabilities!
  
- Is This What **YOU** Want?

# GU / Roncz Canard #1



- 'RONCZ R1145MS AIRFOIL' at 1000000 Re - turb.: upper at 3.00%, lower at 3.00%
- 'RONCZ R1145MS AIRFOIL' at 1000000 Re
- 'UNIVERSITY OF GLASGOW GU25-5(11)B' at 1000000 Re - turb.: upper at 3.00%, lower at 3.00%
- 'UNIVERSITY OF GLASGOW GU25-5(11)B' at 1000000 Re
- 'EPPLER 1230' at 1000000 Re - turb.: upper at 3.00%, lower at 3.00%
- 'EPPLER 1230' at 1000000 Re

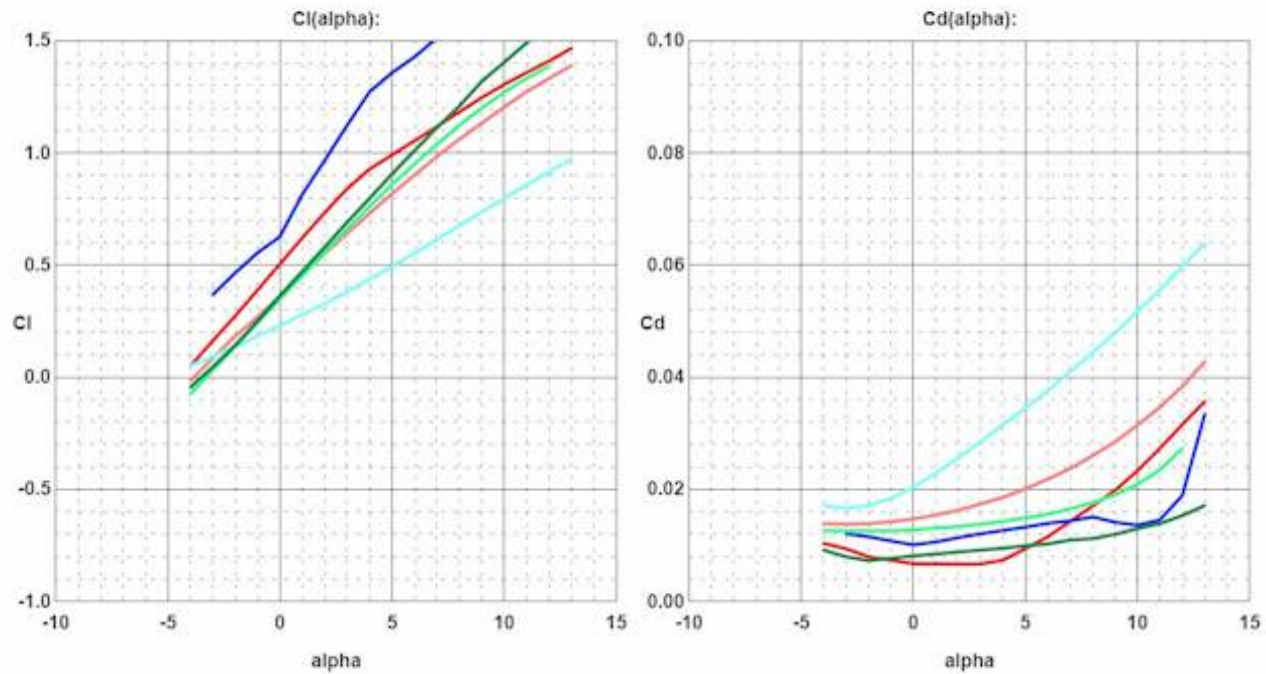


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# GU / Roncz Canard #2



- 'RONCZ R1145MS AIRFOIL' at 1000000 Re - turb.: upper at 3.00%, lower at 3.00%
- 'RONCZ R1145MS AIRFOIL' at 1000000 Re
- 'UNIVERSITY OF GLASGOW GU25-5(11)8' at 1000000 Re - turb.: upper at 3.00%, lower at 3.00%
- 'UNIVERSITY OF GLASGOW GU25-5(11)8' at 1000000 Re
- 'EPPLER 1230' at 1000000 Re - turb.: upper at 3.00%, lower at 3.00%
- 'EPPLER 1230' at 1000000 Re

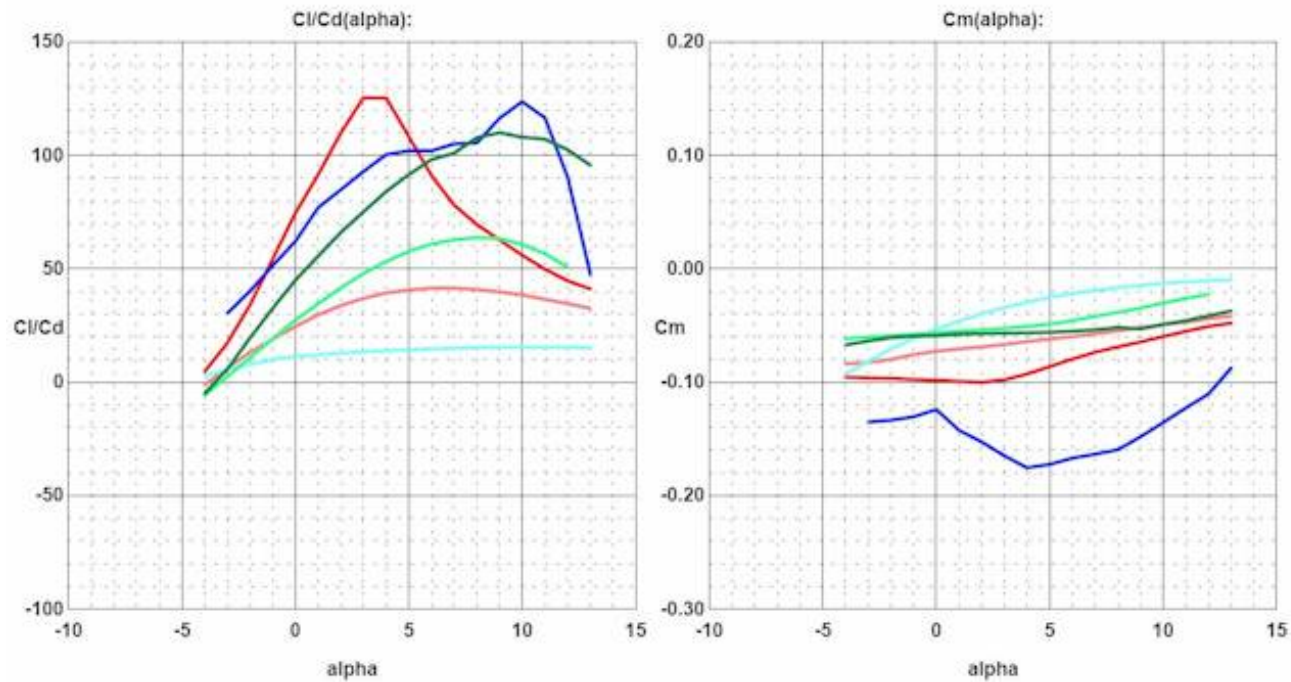


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# GU / Roncz Canard #3



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- 'EPPLER 1230' at 1000000 Re



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# Questions?



- (Training???)
- (Canard Shortening???)
- (Need for Lower Winglets???)
- (Planes out on line for pictures???)
- (Summary of tips/tricks –FAQ / builder’s web sites)
- (Builders Websites)
- (Digital Camera – documentation)
- (Composite Workshops – here/OSH)
- (Build Times – Weights)
- (Finishing tips – Cory Bird???)
- (1st Flights/Testing)
- (Interested folks list – names/email addresses)