

**Q&A Session for North U Expedition with Peter Isler  
(Feb 6+13)**

**Wednesday, February 06, 2013**

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☐-Mark Verville (markverville@comcast.net) - 3:02 PM

Q: loaded

Priority: N/A-

-Lou Roberts - 4:41 PM

A: Thank you-☐

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☐-Gary Green (garygreen@ca.rr.com) - 4:08 PM

Q: How do I access the chart ruler - to measure the distance between 2 points on the chart?

Priority: N/A-

-artie means - 4:10 PM

A: marks menu, select divider-☐

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☐-joseph hanna (joe.w.hanna@gmail.com) - 4:10 PM

Q: when I am in "follow boat" mode, it doesn't look like i can zoom in/out - is there a way to change that?

Priority: N/A-

-artie means - 4:12 PM

A: if on follow boat & open best chart, you cant zoom or pan. turn off center on boat-☐

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☐-Richard Rollo (richardrollo@earthlink.net) - 4:16 PM

Q: I'm in Simulator using polar bsp. Is there a way, after some time has past, to review boat performance under the given twd and tws conditions speciiified?

Priority: N/A-

-artie means - 4:23 PM

A: in simulator mode, the boat will be operating at 100% of polar. Using real data and stripchart, it is easy to analyze performance data in real time and / or logged data-☐

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☐-Sean Kelly (sean@westcoastmortgage.biz) - 4:16 PM

Q: How do I clear Grib Files off the chart?

Priority: N/A-

-artie means - 4:17 PM

A: weather tab / hide. or settings / weather and clear-☐

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☐-Gary Green (garygreen@ca.rr.com) - 4:35 PM

Q: The simulator doesn't work. Each time I enter a requested lat./long., nothing happens and no boat icon appears. What is the problem?

Priority: N/A-☐

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□-Sean Kelly (sean@westcoastmortgage.biz) - 4:36 PM

Q: My toolbar keeps going away when I go to the chart

Priority: N/A-

-artie means - 4:36 PM

A: look at the 'thumb tack' icon in the top right of the number box-

-artie means - 4:37 PM

A: if it is horizontal then the number box is in 'autohide' mode-

-artie means - 4:37 PM

A: click so it changes to vertical and it will stay open over the chart-□

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□-Shane Morast (smorast@comcast.net) - 4:36 PM

Q: Is the same true for temp in F, vice C for the global settings?

Priority: N/A-

-Nick White - 4:41 PM

A: Yes, same for temperature. Which is nice and I still don't get F-□

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□-Philip O'Neil III (poniel@prodigy.net) - 4:39 PM

Q: I can only get Nuber boxes 2 to display. My Number boxes seems to be "lost" off the screen somewhere, is there a way to fix this?

Priority: N/A-

-Nick White - 4:40 PM

A: That is a bit tricky. One extreme way would be to close Exp and run the Expedition System restore app. This can reset display states, which will reset all window positions-

-artie means - 4:46 PM

A: I just had this same problem, where number boxes was hiding. Turns out it was just really small along the right column. Take the cursor along the right side of the chart and try to drag the number boxes wider-□

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□-Sean Kelly (sean@westcoastmortgage.biz) - 4:41 PM

Q: Artie, still removes any tool bar (top or side) when I go to screan

Priority: N/A-

-artie means - 4:43 PM

A: standby, trying to duplicate-□

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□-Richard Rollo (richardrollo@earthlink.net) - 4:42 PM

Q: To determine actual polars performance, how can one record several hours of sailing in different directions at different tws and twd in order to develop a database of actual performance in various conditions? If this will be covered later, just let me kno

Priority: N/A-

-artie means - 4:43 PM

A: coming later, or bug me after class. a bit involved-□

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□-Sean Kelly (sean@westcoastmortgage.biz) - 4:43 PM  
Q: OK I got it figured out..thanks sk  
Priority: N/A-□

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□-Barton Goldenberg (bartongoldenberg@netzero.com) - 4:47 PM  
Q: Sorry foir such a basic questoin, but what does it mean to "damp"?  
Priority: N/A-  
-artie means - 4:49 PM  
A: average the data over 'x' seconds. basically smoothing it out-□

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□-Shane Morast (smorast@comcast.net) - 4:49 PM  
Q: Will damping affect the log file on replay?  
Priority: N/A-  
-Nick White - 4:51 PM  
A: Yes ... -□

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□-Barton Goldenberg (bartongoldenberg@netzero.com) - 4:49 PM  
Q: Got it; thanks  
Priority: N/A-□

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□-Gary Green (garygreen@ca.rr.com) - 4:58 PM  
Q: How do I find and import the polars for my particular boat?  
Priority: N/A-  
-Nick White - 4:59 PM  
A: So, there are some sample polars included with Exp. Depending on your boat, the designer or manufacturer may also have polars. There are also a lot on the web (eg www.blur.se has a lot-  
-Nick White - 5:00 PM  
A: Also, US Sailing can provide polars in Exp format-□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:02 PM  
Q: Can one edit existing polars within Expedition?  
Priority: N/A-  
-Nick White - 5:05 PM  
A: Yes. Of course, you can edit the text file. Else you can edit the raw numbers in the polar window. The other way is you can click on the Edit button in the polar window. This will give a graphical polar editing window that will let you drag polar points ar-  
-Nick White - 5:12 PM  
A: You can drag the polar points graphically, which is great to keep 'nice' curves and also fit any test points you have-□

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□-Sean Kelly (sean@westcoastmortgage.biz) - 5:10 PM  
Q: I was doing some optimization for the Cabo Race and put in 4, 5 waypoints. It only optimizes the first leg.... How do I get around that? I think Peter drew 1 leg and then shaded out the land area??? Cant figure out how to shade out area

Priority: N/A-

-artie means - 5:11 PM

A: first un-check settings / optimize first leg only-

-artie means - 5:12 PM

A: then click sail menu /race notes to add race notes that avoid land-

-artie means - 5:12 PM

A: but you can usually use waypoint instead of race nmotes to avoid land-□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:07 PM

Q: I also asked Artie how one can log actual performance in various conditions with the boat sailing various angles over an extended time period to create a database of actual polars performance. He will follow up after, but you might wish to add your \$2

Priority: N/A-

-Nick White - 5:13 PM

A: Just leave Exp always logging data. Then use Stripchart to pull averages of several minutes out and save as tests. You can showthese in the edit polar window later ...-□

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□-Philip O'Neil III (poniel@prodigy.net) - 5:10 PM

Q: If we run the Expedition system restore what else will get changed besides display states?

Priority: N/A-

-Nick White - 5:14 PM

A: You can use that to rest various things. If you select the display states button, it clears all window positions and the quick access toolabr-

-artie means - 5:16 PM

A: did you try this: I just had this same problem, where number boxes was hiding. Turns out it was just really small along the right column. Take the cursor along the right side of the chart and try to drag the number boxes wider-□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:17 PM

Q: How many minutes of data will Expedition log? Is it limited to several minutes at a time, or will it logs hours of data for later analysis and summarization?

Priority: N/A-

-Nick White - 5:18 PM

A: It is indefinite. You will see the it gets written to .csv files in the Log0 folder. One for each day-

-artie means - 5:20 PM

A: you should confirm that settings / user / log boats has 'boat 0' checked. this will make sure that the data is written to the csv file-□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:20 PM

Q: OK. If one per day, then it sounds like you could compile tons of data over time for later analysis? Am I understanding this correctly?

Priority: N/A-

-Nick White - 5:22 PM

A: Yes ... but they aren't that large-

-Nick White - 5:22 PM

A: ... and it only logs actual instrument data, not all the derived data-□

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□-Gary Feracota (gary.feracota@pinnacle-yachts.com) - 5:23 PM

Q: We have EXP loaded on the onboard computer. Can we also install it on our laptop under that same licence so that pre-race planning can be performed off the boat? Would this require a second licence?

Priority: N/A-

-Nick White - 5:23 PM

A: Definitely, we just have to generate a key for it-

-Nick White - 5:24 PM

A: For pre-race planning, you might want to copy the marks.dat file to and from the two computers-□

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□-Gary Feracota (gary.feracota@pinnacle-yachts.com) - 5:24 PM

Q: Thx, would we need to pay for a second licence Nick?

Priority: N/A-

-Nick White - 5:24 PM

A: No ...-

-Nick White - 5:25 PM

A: (unless you really really wanted to!)-□

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□-Shane Morast (smorast@comcast.net) - 5:24 PM

Q: Is the best way to remove a route from displaying to delete it as the folder is still in the marks folder?

Priority: N/A-

-Nick White - 5:25 PM

A: Yes, or right-click and set a new mark/active route-□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:24 PM

Q: Instrument data works! So it sounds like one could (with some diligence) obtain actual polars rather than those derived mathematically/theoretically. Sounds really important for long-distance racing.

Priority: N/A-

-artie means - 5:25 PM

A: start with derived and then customize them. You could even have different polars for inshore, offshore, big chop, etc-

-Nick White - 5:26 PM

A: Of course, you want well calibrated instruments - garbage in, garbage out-□

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□-Gary Feracota (gary.feracota@pinnacle-yachts.com) - 5:24 PM

Q: Where would we find the marks.dat file?

Priority: N/A-

-Nick White - 5:25 PM  
A: In the Exp data folder-□

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□-Gary Feracota (gary.feracota@pinnacle-yachts.com) - 5:25 PM  
Q: How would we get the second key?  
Priority: N/A-  
-Nick White - 5:26 PM  
A: Send me the code it gives you on the new laptop-□

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□-Gary Feracota (gary.feracota@pinnacle-yachts.com) - 5:27 PM  
Q: What is your email address Nick?  
Priority: N/A-  
-Nick White - 5:30 PM  
A: nick@ExpeditionMarine.com-□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:29 PM  
Q: Very cool! I would need some further guidance in detail. How can I access that from Expedition (or North U)? (The Skipper I'm crewing for has purchased Expedition. I'm likely too.)  
Priority: N/A-  
-Nick White - 5:30 PM  
A: Further guidance on ...polars and tests?-  
-Nick White - 5:32 PM  
A: A couple of useful things - Set up Stripchart to show twa, tws, bsp and bsp% is a good start, then just go through the logged data. Select segments 3-5 minutes or more that are steady for these parameters and save as tests. -  
-Nick White - 5:32 PM  
A: If you save events, you can automatically populate the sail in the test ...-  
-Nick White - 5:33 PM  
A: Of course, you can also save tests in real time-□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:32 PM  
Q: On making sure that I am recording the data properly and reliably so that I can later edit the "base"  
Priority: N/A-  
-artie means - 5:34 PM  
A: please explain more-□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:32 PM  
Q: "base" polars.  
Priority: N/A-□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:34 PM  
Q: I guess what I'm asking is if Expedition could run constantly in background so that I don't have to sit at the computer.  
Priority: N/A-

-artie means - 5:34 PM

A: of course. make sure you are logging boat zero and walk away-

-artie means - 5:35 PM

A: with that option selected, and expedition running, you can analyze data at any time in the future-□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:36 PM

Q: Artie: I've only seen Expedition for an hour before this Webinar. To say that it is awesome is an understatement. I am gathering that at the end of the day, having accurate polars and decent weather estimation for long distance races is the key. I'm

Priority: N/A-

-artie means - 5:37 PM

A: garbage in = garbage out. Getting good polars, real instrument calcs and accurate weather is key!-□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:37 PM

Q: trying to figure out how to compile a thorough database of polars given actual experience in various conditions, at various headings, with various sails, etc. in order to get the most realistic profile possible that would necessarily include crew performance

Priority: N/A-

-Nick White - 5:39 PM

A: You can also over-think the issue. A lot of optimal routing is looking at the general picture, then examining the important points and thinking about what it means. Obviously, the better your polar and weather then it is better-□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:37 PM

Q: ce. How to do that is my question.

Priority: N/A-□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:38 PM

Q: AGREE

Priority: N/A-

-artie means - 5:39 PM

A: one webinar trick...if you click your previous question first, we can have a running tab of q/a instead of starting new one each time-□

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□-Shane Morast (smorast@comcast.net) - 5:39 PM

Q: Is it standard to reduce the polar by a % scaled to the confidence of crew/boat performance to obtain optimum PBsp?

Priority: N/A-

-Nick White - 5:40 PM

A: I don't use that much, although in the Volvo a few times because the air density varies so much. I tend to play with the TWS percentage more -□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:41 PM  
Q: Can I hire you and/or Nick to walk me though this one-on-one. It would be worth it for me.  
Priority: N/A-  
-artie means - 5:41 PM  
A: where are you located?-□

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□-Sean Kelly (sean@westcoastmortgage.biz) - 5:42 PM  
Q: My computer is showing Isobarsof presure, can I remove that  
Priority: N/A-  
-Nick White - 5:43 PM  
A: Yes, go to the weather settings page, select MSLP on the right-  
-artie means - 5:44 PM  
A: of course. weather / settings tab. expand mean sea level pressure and uncheck contour lines-□

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□-Richard Rollo (richardrollo@earthlink.net) - 5:42 PM  
Q: LA  
Priority: N/A-  
-artie means - 5:42 PM  
A: easy, lets discuss after class-□

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□-Gary Green (garygreen@ca.rr.com) - 5:43 PM  
Q: What maximum resolution do the GRIB files offer for near coastal waters? On the demo program, I only see a wind arrow every 20-30 NM.  
Priority: N/A-  
-Nick White - 5:44 PM  
A: Half degree (30nm) is the stahdard for GFS. If you are in the US, you can download NAM data (for example) is much higher resolution-  
-artie means - 5:47 PM  
A: coamps is .2 degree resolution, gfs, .5 degree, nogaps at 1 degree. Predictwind and NAM can get quite fine-□

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□-Sean Kelly (sean@westcoastmortgage.biz) - 5:47 PM  
Q: How do you display weather?  
Priority: N/A-  
-Nick White - 5:48 PM  
A: Load a grib file (for example the Saildocs grib file Pedro downloaded earlier)-  
-Nick White - 5:48 PM  
A: Then all the weather display options are on the weather settings page-□

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□-Shane Morast (smorast@comcast.net) - 5:59 PM  
Q: I like the work around for also ensuring that land is avoided...  
Priority: N/A-□

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□-Barton Goldenberg (bartongoldenberg@netzero.com) - 6:03 PM  
Q: Observation: Is Peter going (too?) fast at this time or am I simply getting tired?!  
Priority: N/A-  
-artie means - 6:11 PM  
A: probably both! getting close to end of class so everything speeds up.....-□

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□-Shane Morast (smorast@comcast.net) - 6:07 PM  
Q: Nick, is there any thought to providing AIS audible alarms for CPAs of a selectable distance?  
Priority: N/A-□

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□-Scott Dickson (scottydickson@me.com) - 6:10 PM  
Q: So do the different AIS tags appear in variable window? or how do you tell it which one.  
Priority: N/A-  
-artie means - 6:11 PM  
A: ais targets display in the ais window & depending on your display settings, certain ais parameters display on teh chart-□

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□-Scott Dickson (scottydickson@me.com) - 6:11 PM  
Q: Thanks Artie, but Nick was saying it could be selected in strip charts also  
Priority: N/A-  
-artie means - 6:13 PM  
A: looks like ais range & ais bearing are the only AIS strip functions-□

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□-Mark Verville (markverville@comcast.net) - 6:11 PM  
Q: should I load the same polars into Nav, Perf, Start?  
Priority: N/A-  
-artie means - 6:15 PM  
A: as a starting point, yes all 3 should be the same. Eventually I make a slower start polar as we don't use code 0 etc during pre start reaches. I always use the same nav/perf polar-□

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□-Chris Hemans (hemans@pacbell.net) - 6:12 PM  
Q: Artie -  
Priority: N/A-□

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□-Chris Hemans (hemans@pacbell.net) - 6:13 PM  
Q: we need to figure out how to turn our AIS transponder off  
Priority: N/A-  
-artie means - 6:13 PM  
A: which model?-□

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□-Chris Hemans (hemans@pacbell.net) - 6:14 PM

Q: not sure, from Europe - we also see all the boats on AIS on our GPS chart plotter as well - but we do not want our comeptitors to folow us once we are a few days from shore

Priority: N/A-

-artie means - 6:16 PM

A: send me the model # and I'll research it-□

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□-Shane Morast (smorast@comcast.net) - 6:15 PM

Q: Great presentation as well as the real time Q&A aswers.

Priority: N/A-□

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□-Gary Feracota (gary.feracota@pinnacleyachts.com) - 6:16 PM

Q: Thank you all gentimen. Out standing technology and great presentation. Best, Gary

Priority: N/A-□

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□-Mike Piper (mpiper@abramscapital.com) - 6:22 PM

Q: Can you set Race Notes and permanently save them so you can use them in multple races. Let's say an area you frequently race in that has restricted zones.

Priority: N/A-

-Nick White - 6:22 PM

A: Yes .. you save them as files (there is a same as button) .. so you can back them up, copy to other computers etc-□