

From rpickart@whoi.edu Tue Mar 11 15:21:53 2008  
Date: Tue, 11 Mar 2008 10:21:49 -0400  
From: Robert S. Pickart <rpickart@whoi.edu>  
To: Haraldur Olafsson <haraldur68@gmail.com>, Andreas Dörnbrack <andreas.doernbrack@dlr.de>  
Cc: Jon Egill Kristjansson <j.e.kristjansson@geo.uio.no>, Professor G.W.K.Moore <gwk.moore@utoronto.ca>, "Renfrew, Ian" <i.renfrew@uea.ac.uk>  
Subject: Yesterday's mooring flight

Hi Haraldur, Jon Egill, Andreas,

I want to offer my sincerest thanks for the flight that occurred yesterday. This will provide a tremendous opportunity to advance our understanding of the atmosphere/ocean coupling associated with the East Greenland barrier winds. I realize how difficult it was to carry this out, and I, as well as Kent and Ian, are most grateful to you. My moorings will be recovered this October on the R/V Knorr, and as soon as the data are calibrated and processed I will make them available to everyone. I look forward to the collaborations that will ensue. Finally, I will compose a letter to my program manager at the National Science Foundation informing him of yesterday's flight. This will be received very favorably, and will bode well for securing funding for future such joint atmosphere/ocean endeavors (hopefully we'll have a meteorological buoy the next time). So thank you again for all your hard work and efforts to make this happen!

Best regards, Bob

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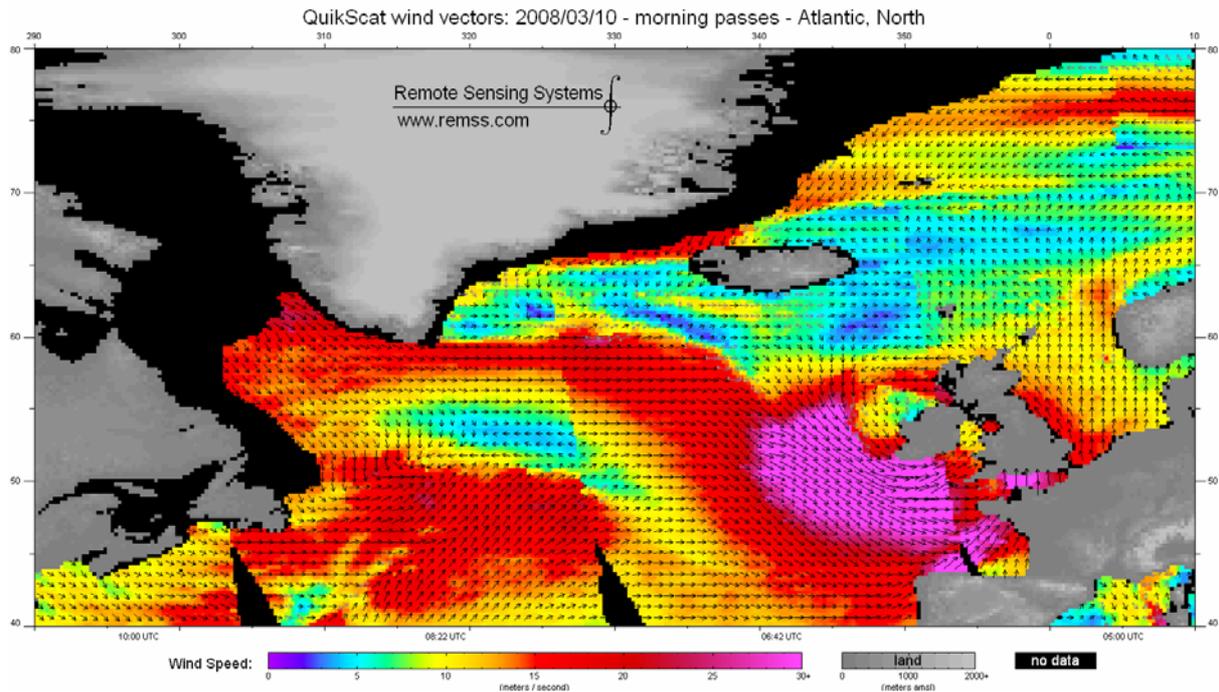
Robert S. Pickart  
Department of Physical Oceanography MS 21  
Woods Hole Oceanographic Institution  
Woods Hole, MA 02543  
phone: (508)289-2858 fax: (508)457-2181  
<http://www.whoi.edu/science/PO/people/pickart>  
rpickart@whoi.edu

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From gwk.moore@utoronto.ca Tue Mar 11 15:42:53 2008  
Date: Tue, 11 Mar 2008 10:42:48 -0400  
From: Professor G.W.K. Moore <gwk.moore@utoronto.ca>  
To: Robert S. Pickart <rpickart@whoi.edu>  
Cc: Haraldur Olafsson <haraldur68@gmail.com>, Andreas Dörnbrack <andreas.doernbrack@dlr.de>, Jon Egill Kristjansson <j.e.kristjansson@geo.uio.no>, "Renfrew, Ian" <i.renfrew@uea.ac.uk>  
Subject: Re: Yesterday's mooring flight

Dear Colleagues

I want to echo Bob's comments regarding the flight on Mar 10. I also think that it represents a very important occurrence-simultaneous observations, in both fluids, of the oceanographic response to a strong atmospheric forcing event. Many thanks to all. I've attached the qscat pass from the morning of the 10th. Very nice barrier flow! The evening pass over the area appears to be missing- hopefully it will be found!



From I.Renfrew@uea.ac.uk Tue Mar 11 16:59:14 2008

Date: Tue, 11 Mar 2008 15:59:02 -0000 (GMT)

From: <I.Renfrew@uea.ac.uk>

To: Professor G.W.K. Moore <gwk.moore@utoronto.ca>

Cc: Robert S. Pickart <rpickart@whoi.edu>, Haraldur Olafsson <haraldur68@gmail.com>, Andreas Dörnbrack <andreas.doernbrack@dlr.de>, Jon Egill Kristjansson <j.e.kristjansson@geo.uio.no>, "Renfrew, Ian" <i.renfrew@uea.ac.uk>

Subject: Re: Yesterday's mooring flight

Dear all,

Just to add my heartfelt thanks for those of Bob and Kent. I think I have said it once already - but to say again, thanks a lot to Haraldur, Jon Egill and Andreas in particular and thanks to all involved in this campaign. I am sure this flight will provide some excellent results. all the best with the polar lows this weekend.  
cheers Ian

From i.renfrew@uea.ac.uk Fri Mar 14 03:03:45 2008

Date: Thu, 13 Mar 2008 22:03:34 -0400

From: Ian Renfrew <i.renfrew@uea.ac.uk>

To: Professor G.W.K. Moore <gwk.moore@utoronto.ca>, Robert S Pickart <rpickart@whoi.edu>, Haraldur Olafsson <haraldur68@gmail.com>, Andreas Dörnbrack <andreas.doernbrack@dlr.de>, Jon Egill Kristjansson <j.e.kristjansson@geo.uio.no>

Subject: dropsonde cross-sections of Mooring flight

Dear Kent, Bob, Haraldur, Jon Egill and Andreas,

I knocked up some cross-sections of the moorings flight - please see attached. They should be ok, but haven't checked closely and it is late!

21 = east west, with zero closest to greenland

22 = north-south.

Few comments:

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The cross-sections show the jet stronger, deeper and more elevated near Greenland.

The ABL is quite deep, 1000m, and there is quite a strong directional shear across the ABL top.

The ABL well marked out by a layer of constant thetae.

The downsteam dropsonde is clearly out of cloud during descent - low RH values. But all other ds appear to be in cloud.

The strong winds appear confined to the ABL (i.e. coincide with constant thetae layer).

Although the very strongest wind is in northernmost dropsonde and has a jet height of ~1000 m.

Also attached map of dropsondes + moorings.

cheers Ian

PS Good luck with polar lows flights on the weekend!!!

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Ian Renfrew is currently on study leave

Visiting address: Dept. of Physics, University of Toronto, Toronto, M5S 1A7, Ontario, Canada

Visiting home: 216 Melita Ave., Toronto, M6G 2A2, Ontario, Canada

Email: [i.renfrew@uea.ac.uk](mailto:i.renfrew@uea.ac.uk)

Skype: [ian.renfrew](https://www.skype.com/people/ian.renfrew)

Phone (home): 416 537 6465

Phone (work): 416 978 5156

Website: <http://lmacweb.env.uea.ac.uk/e046/index.html>

Family Blog: <http://morvenilidh.blogspot.com>

Permanent address: School of Environmental Sciences, University of East Anglia, Norwich NR4 7TJ UK

