

## 11. Teamwork

Monday, February 15, 2010  
2:15 PM

Today:

Admin  
Finish clouds  
Weather update  
Team Expectations  
Team member behaviors  
Facilities and Equipment

Please

SIT WITH YOUR TEAM

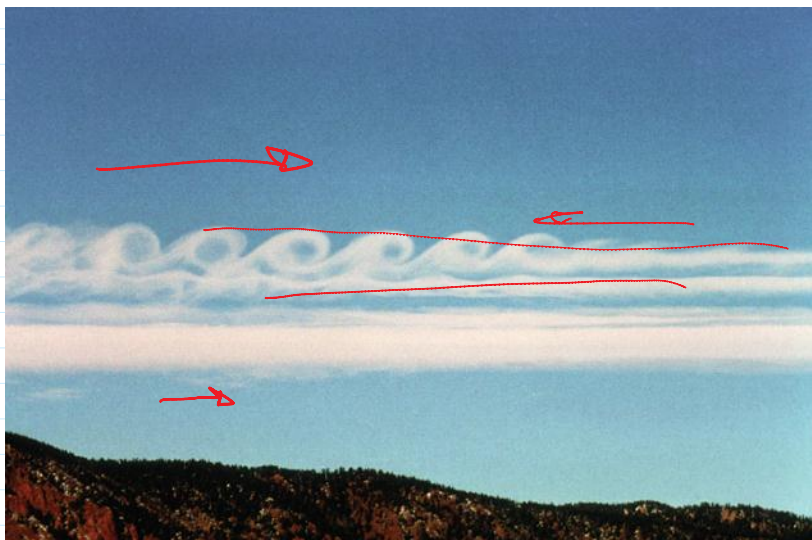
Admin:

- Need help with Expanding Your Horizons, Saturday Feb 26, 9 - 3.  
Flow vis for middle school girls.
- Flow Vis Lending Library. Will bring to class once a week or so?  
Have a look.

Clouds:

OROGRAPHIC cloud = one caused by topography, i.e. mountains  
Mountain wave cloud, Foehn cloud wall.

<http://cloudappreciationsociety.org/collecting/terry-robinson/>



Kelvin Helmholtz instability, from wind shear.

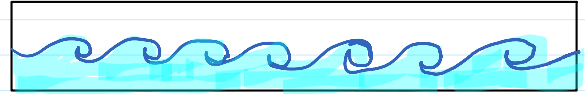
Minute paper:

Which way do you think the wind is blowing in this picture? Why?

minute paper.

Which way do you think the wind is blowing in this picture? Why?

KH toy: can't find anymore. Good group project.



Weather update

Polar plot

[http://www.esrl.noaa.gov/psd/map/images/ens/spag\\_f000\\_nh.html](http://www.esrl.noaa.gov/psd/map/images/ens/spag_f000_nh.html)

Model maps, Weather Underground:

[http://www.wunderground.com/modelmaps/maps.asp?](http://www.wunderground.com/modelmaps/maps.asp?model=NAM&domain=US)

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Clouds develop over time. Helps to know what was there before and after your image.

Besides Cloud Appreciation Society, here is a link to some resources from NCAR:

<http://windows2universe.org/earth/Atmosphere/cloud.html&edu=high>

Good example pictures of basic clouds. Thanks Dominic!

## **Expectations For Teams Flow Visualization Spring 2011**

Reasons for putting you on teams:

1. So that you can attempt to image more complex flow phenomena. If the work of developing a setup is spread out among you, then you can try a challenging experiment.
2. So that you can attempt more challenging imaging techniques. The teams were chosen to spread out photographic expertise amongst the teams.
3. To have partners to bounce ideas off of. This makes ideas multiply.
4. To get informal feedback on your work.
5. To interact with students from different backgrounds (although we are a little short on non-ME students this semester).

Thus, working on a team is not required for the team assignments. You are not required to work only with your team, but you are expected to make some effort to be available to help them with their images and ideas. I hope you will take advantage of the benefits of working in teams and of the opportunity to broaden your network. Strong recommendation: **DON'T WORK ONLY WITH YOUR FRIENDS. BAD FOR YOU PROFESSIONALLY.**

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Following from this, here are the expectations for the deliverables on the team assignments:

Each student is expected to turn in a unique image that they had primary artistic and scientific responsibility for. Please give credit appropriately, by indicating the teammates that contributed.

Each image must be accompanied by a report. If several images come out of the same setup, you can copy descriptions of the apparatus, and the basic physics. If appropriate, give credit to report section authors. Be sure to describe the details relevant to your particular image.

### Team Behaviors

This American Life #370 Ruining It for the Rest of Us.

Bad team behaviors: The Jerk, The Slacker, The Depressive

The cure: solicit input from everyone.

[http://www.thisamericanlife.org/sites/all/play\\_music/play\\_full.php?play=370](http://www.thisamericanlife.org/sites/all/play_music/play_full.php?play=370)