DISCOVER-AQ OUTLOOK -- September 20, 2013

Today (Friday): No fly day.

Saturday: No fly day. Moisture and clouds from what's left of Ingrid & Manuel move over the region and interact with a trough and surface front.

Sunday: Not looking good. A low could form along the stalled front over the Gulf, complicating the cloud situation.

Monday: Likely fly day.

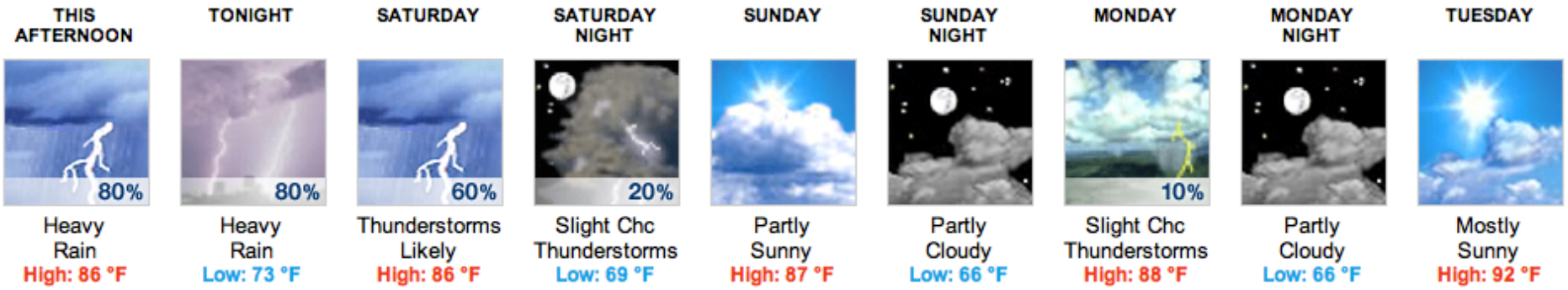
9/20/2013 Weather Briefing

Ryan Stauffer

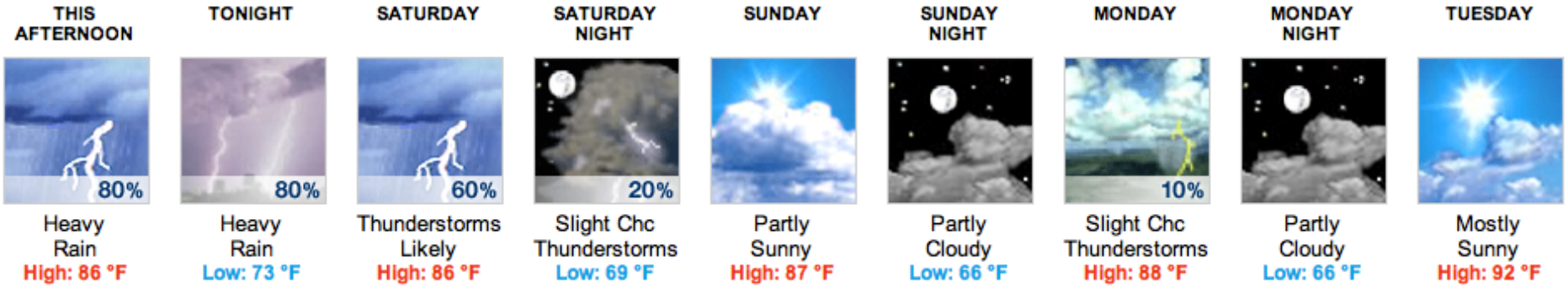
Recommendations

- Saturday: No fly day. Easy call; it's a wash out
- Sunday: Uncertain. Forecast is much changed from yesterday. Frontal boundary stalls (where?) and interaction with tropical moisture complicates things
- Monday: Probable fly day. Clouds slowly clear as surface low exits with continuing improvement early next week

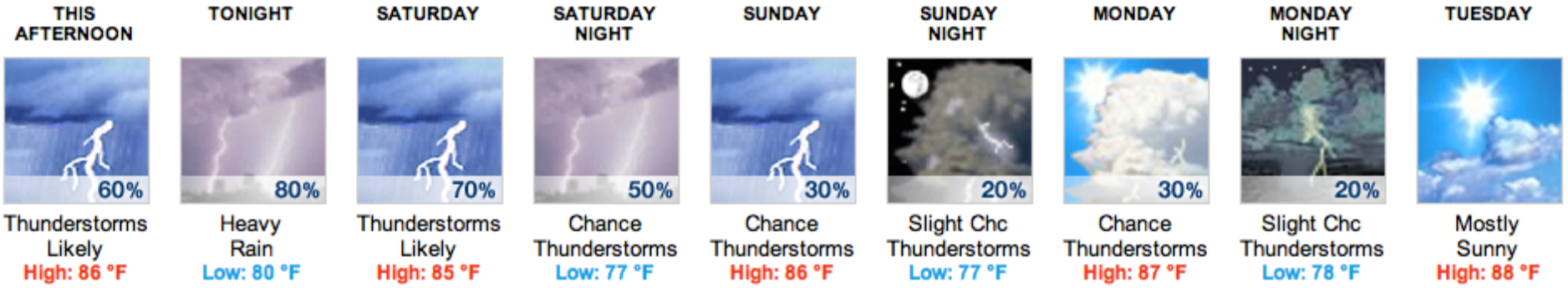
Conroe:

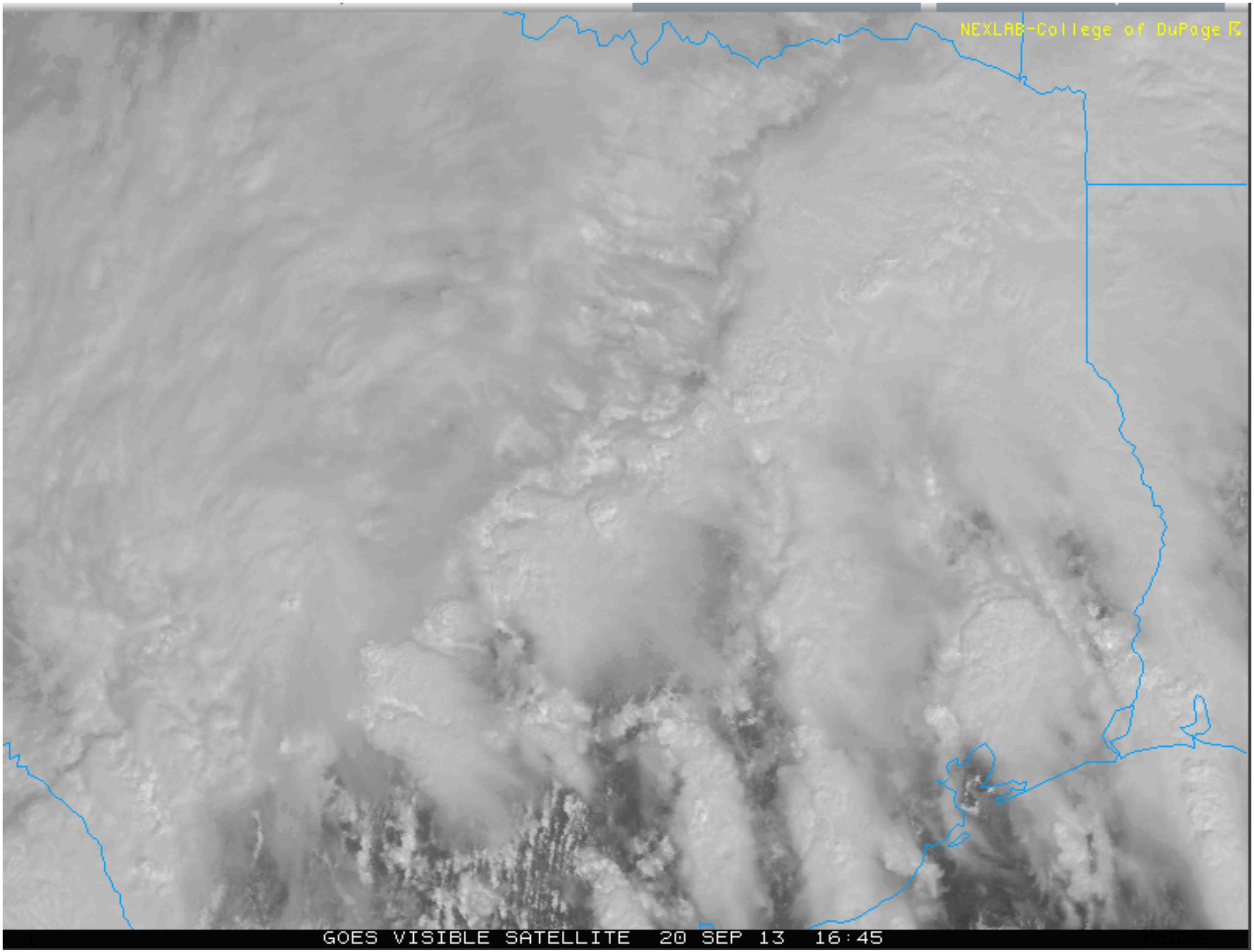


Houston Hobby:



Galveston:

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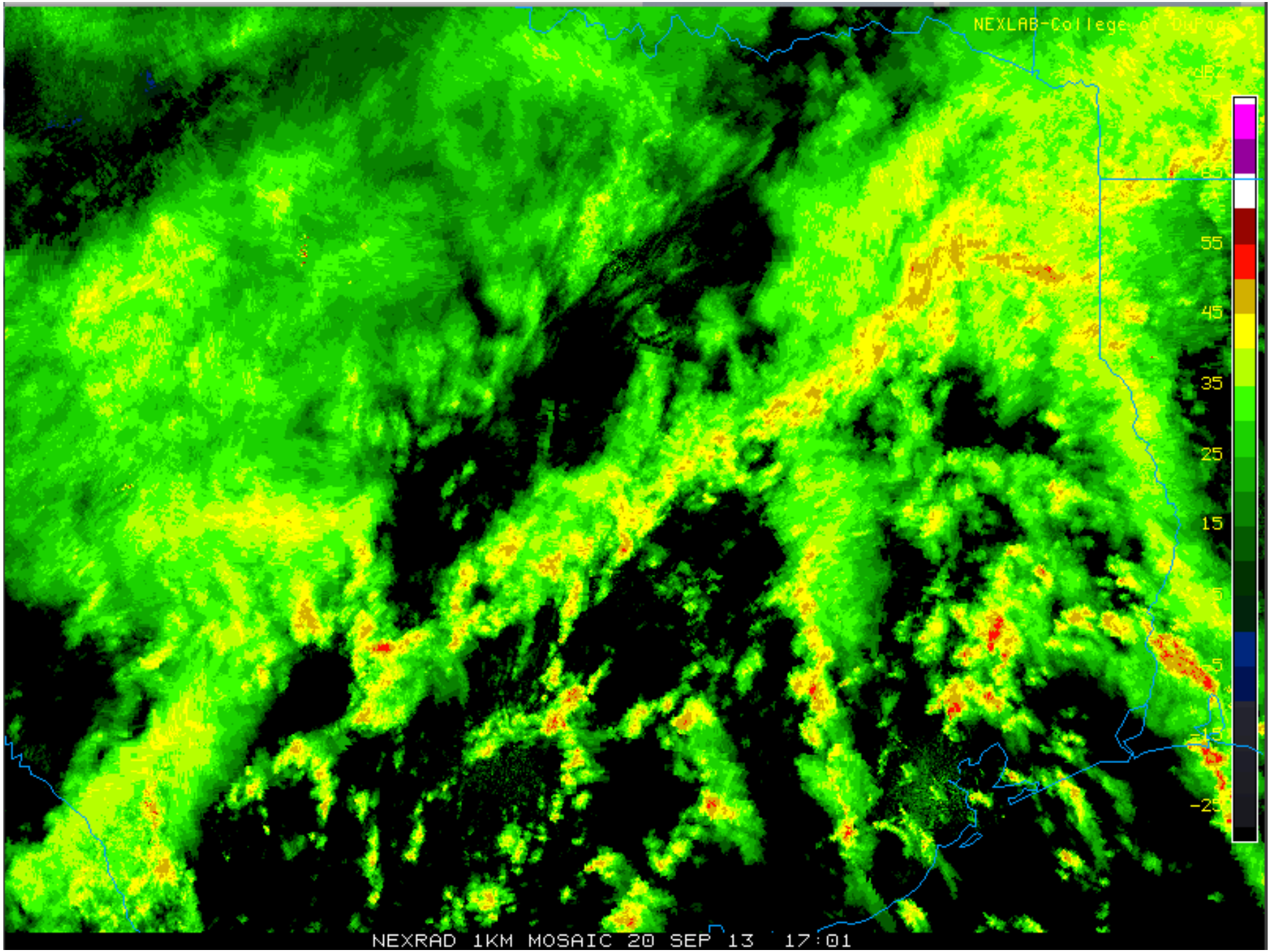
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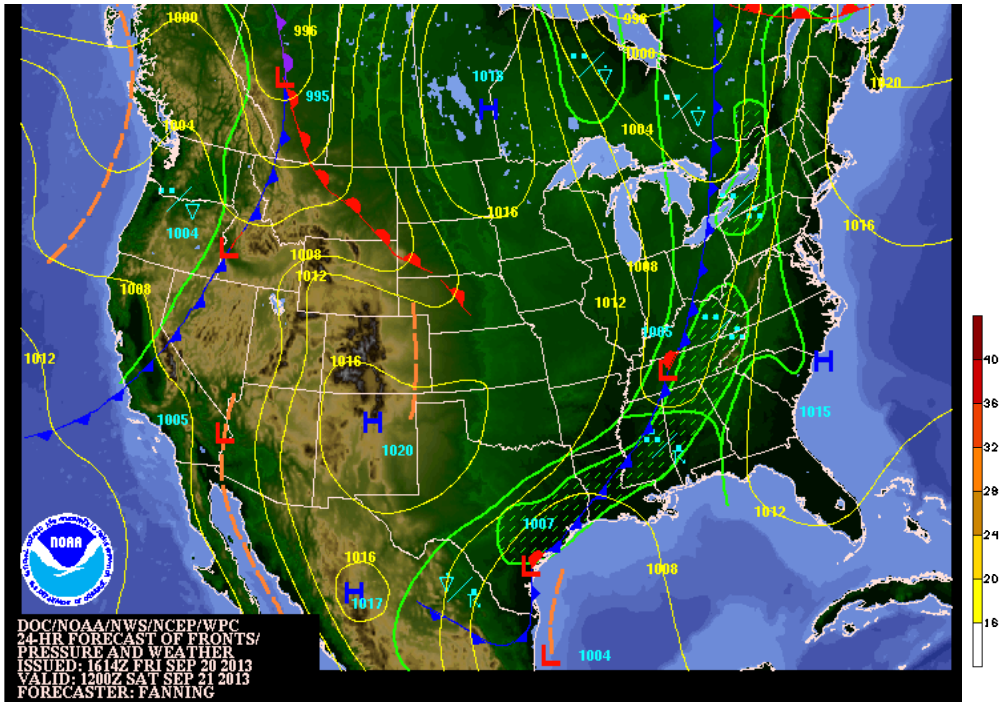
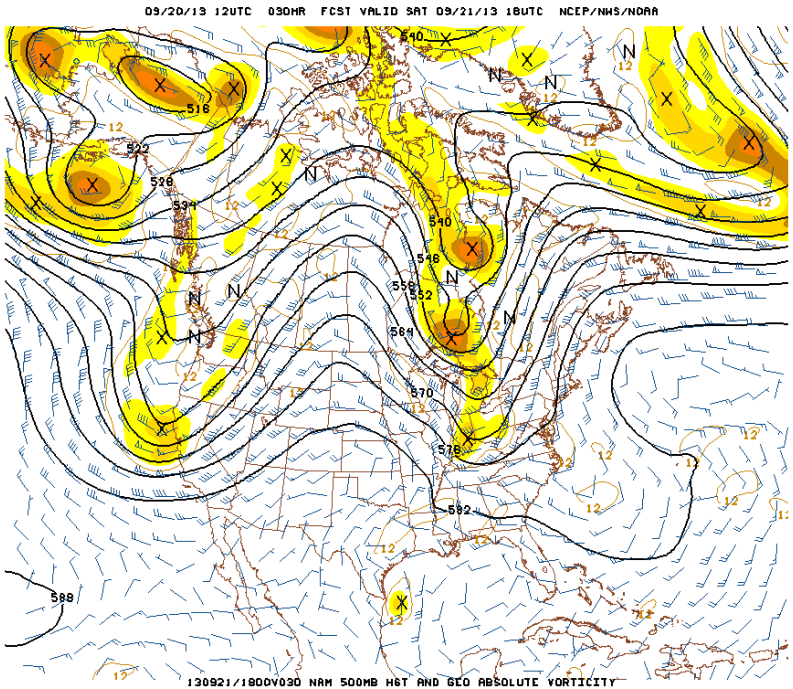
Tomorrow- cold front moves through the region early. Things to watch: How far does the front make it? Where does the surface low form?

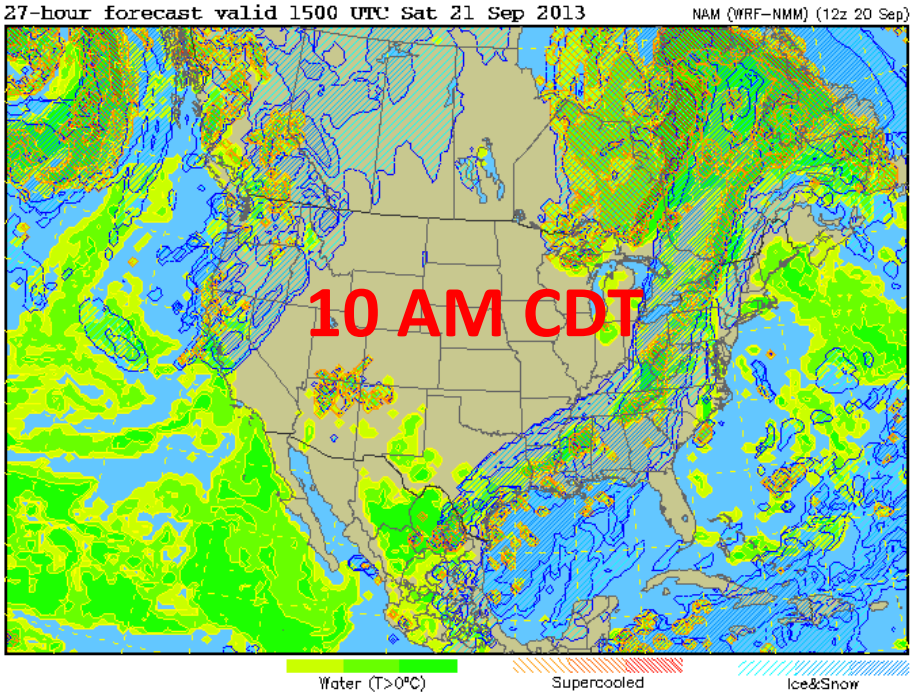
7am surface map

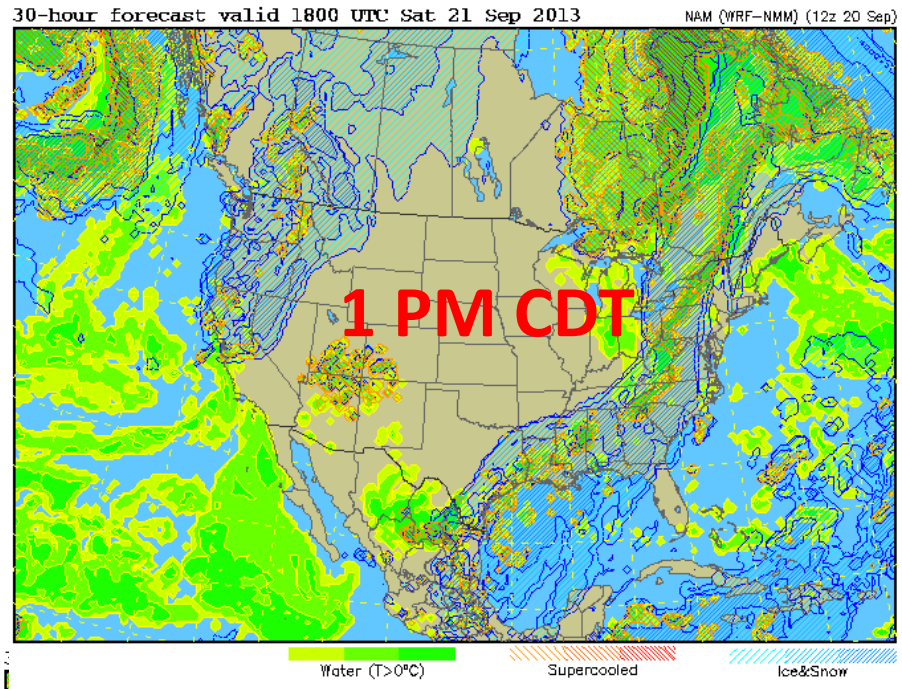


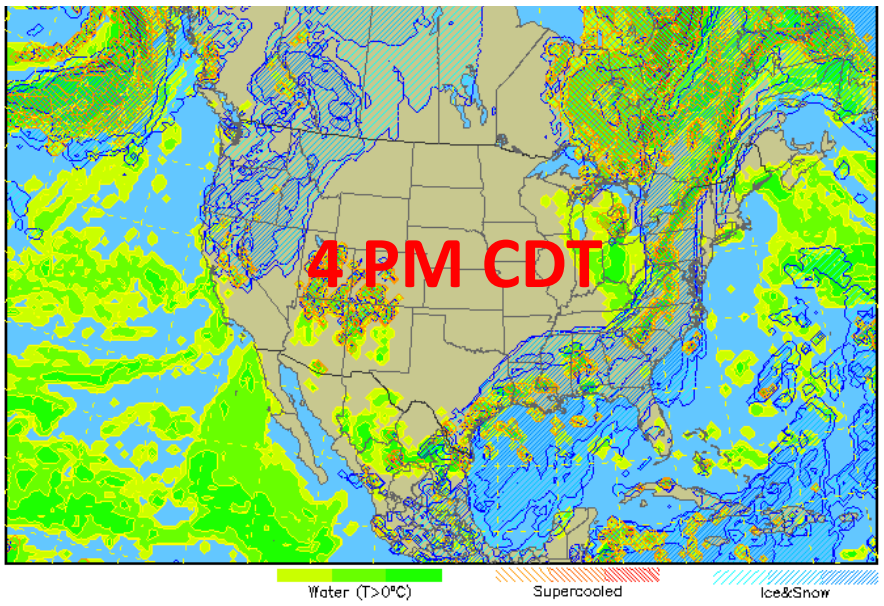
1 PM CDT
500 mb vorticity

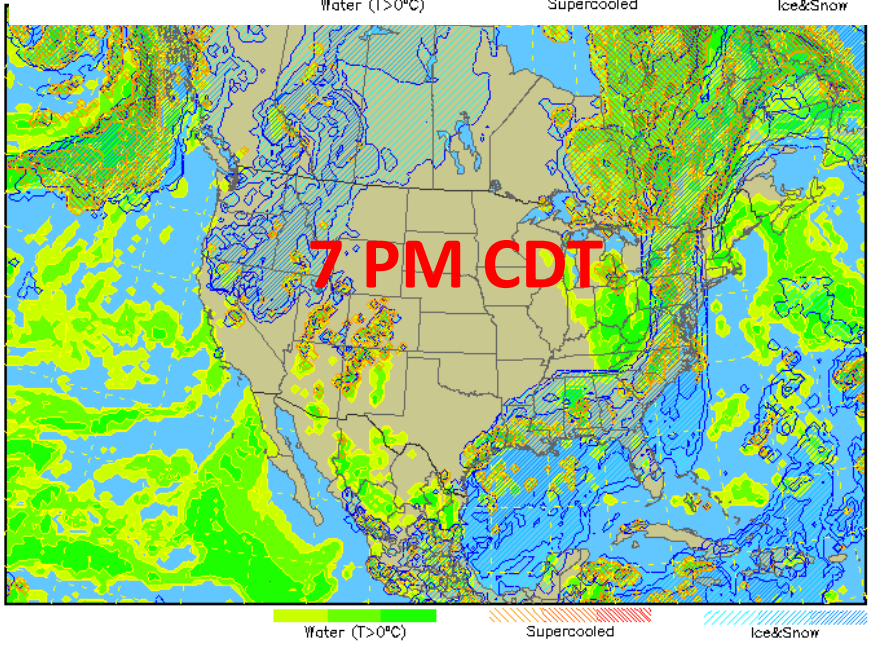


Saturday: NAM – overcast all day



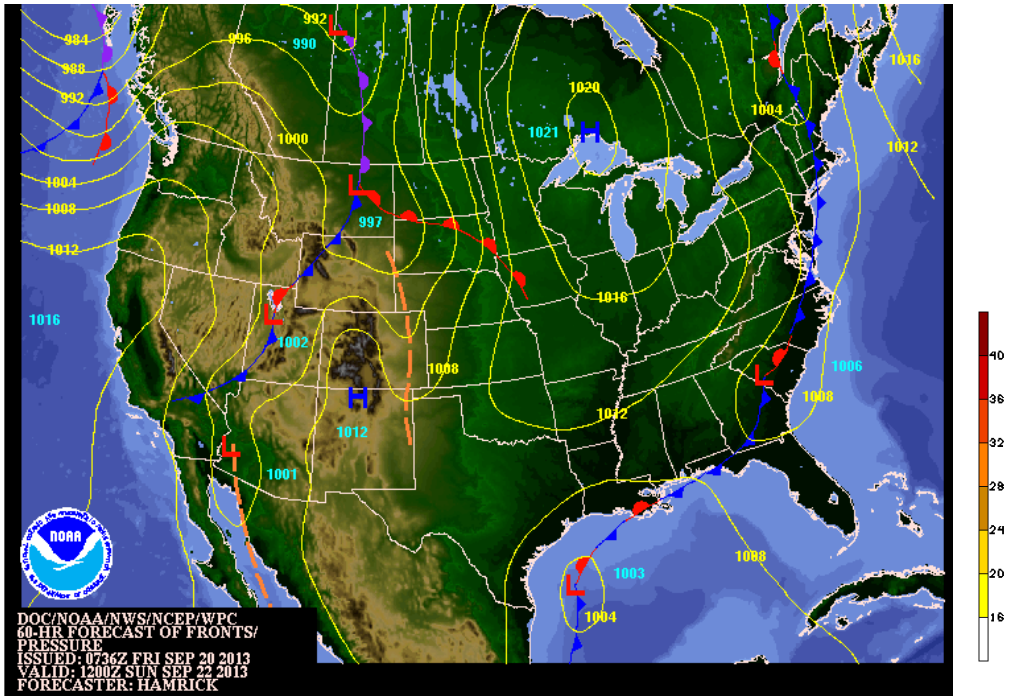




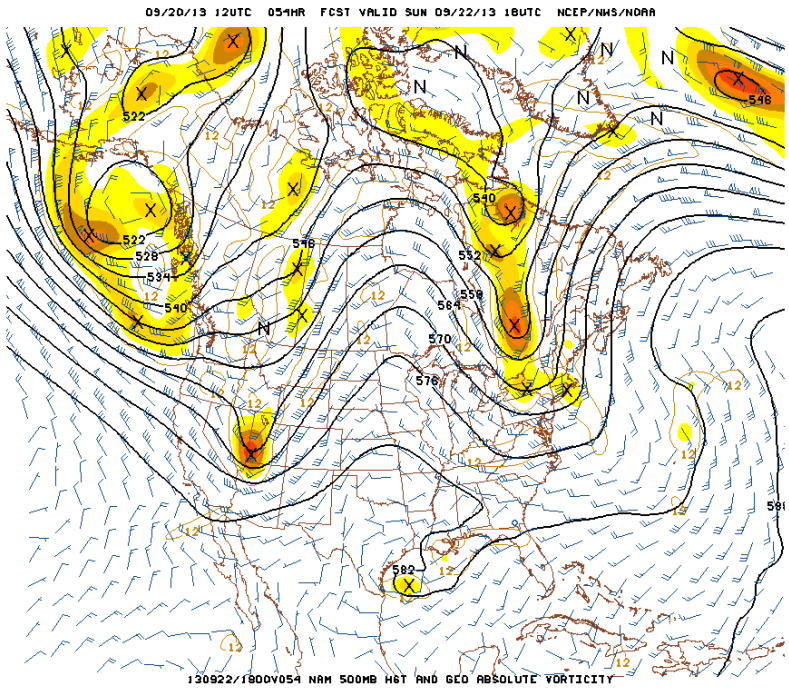


Sunday: Surface low forms along stalled frontal boundary. Proximity to the coast will be key. Coastal locations look less favorable for flight

7am surface map



1 PM CDT
500 mb vorticity

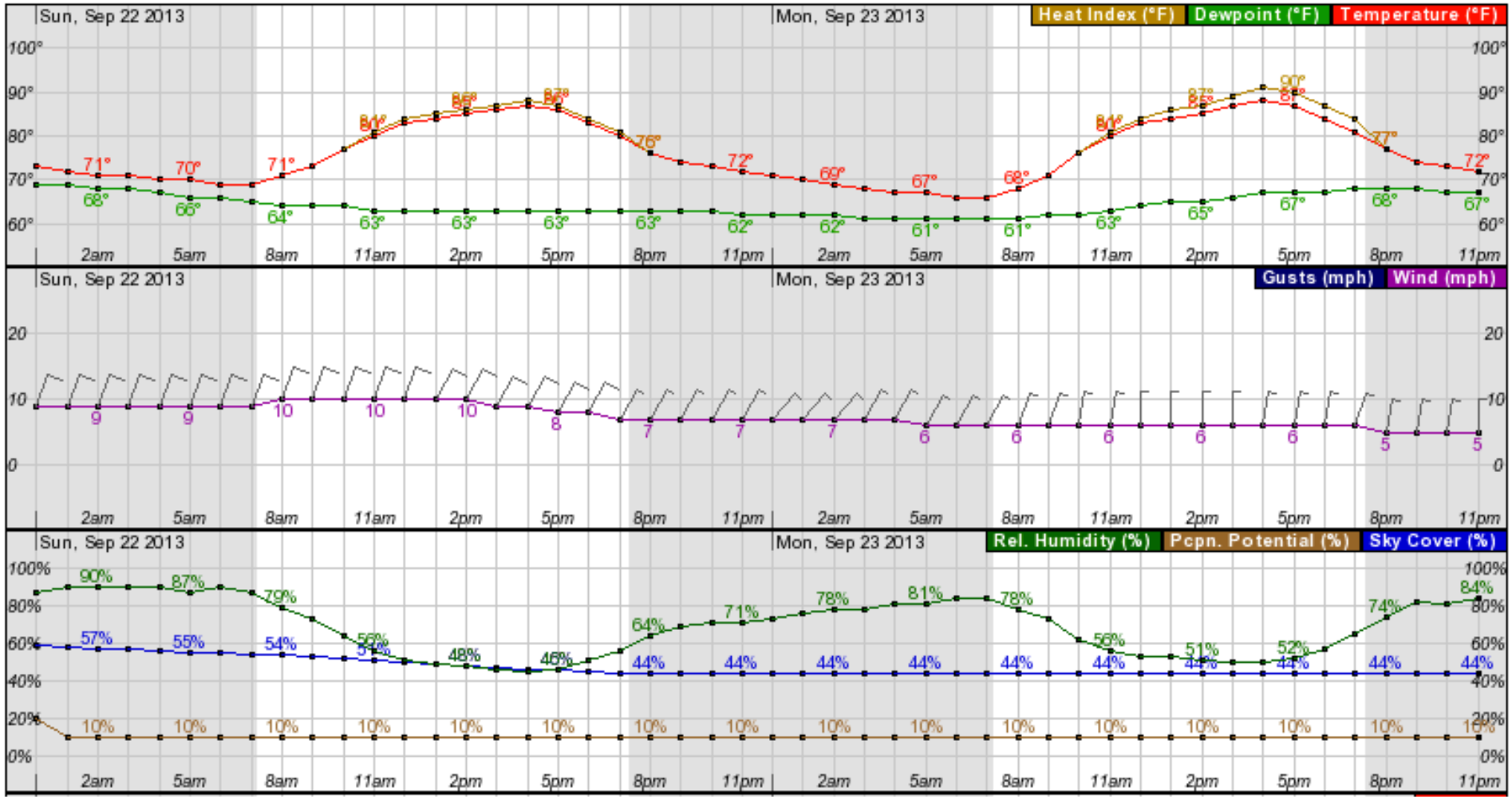


Conroe

Sunday: Clouds begin slowly decreasing

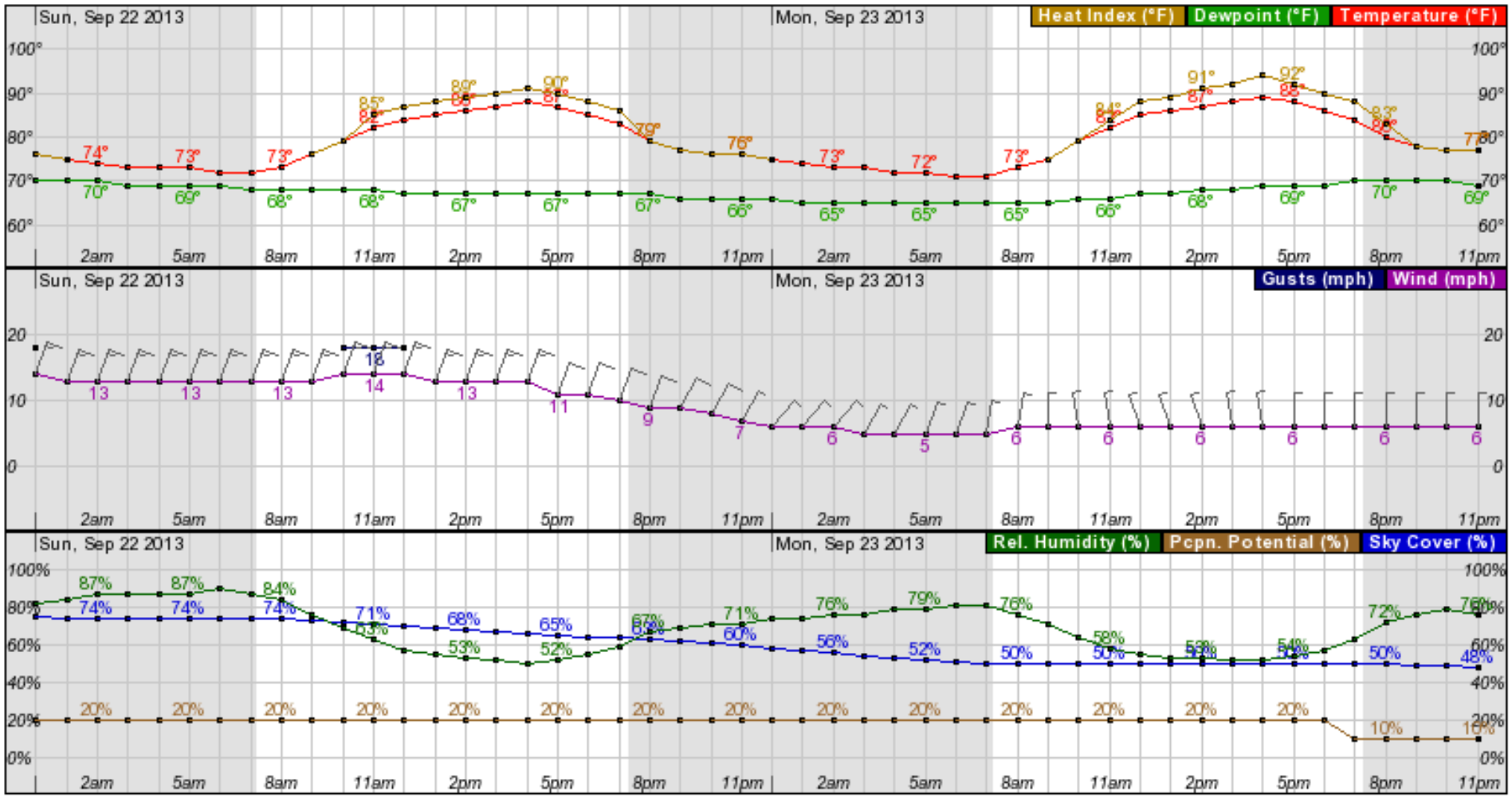
Monday: NWS punts on the cloud forecast

Sunday→ **Monday→**



Houston Hobby
Sunday: Mostly cloudy
Monday: Slowly decreasing clouds

Sunday→ **Monday→**

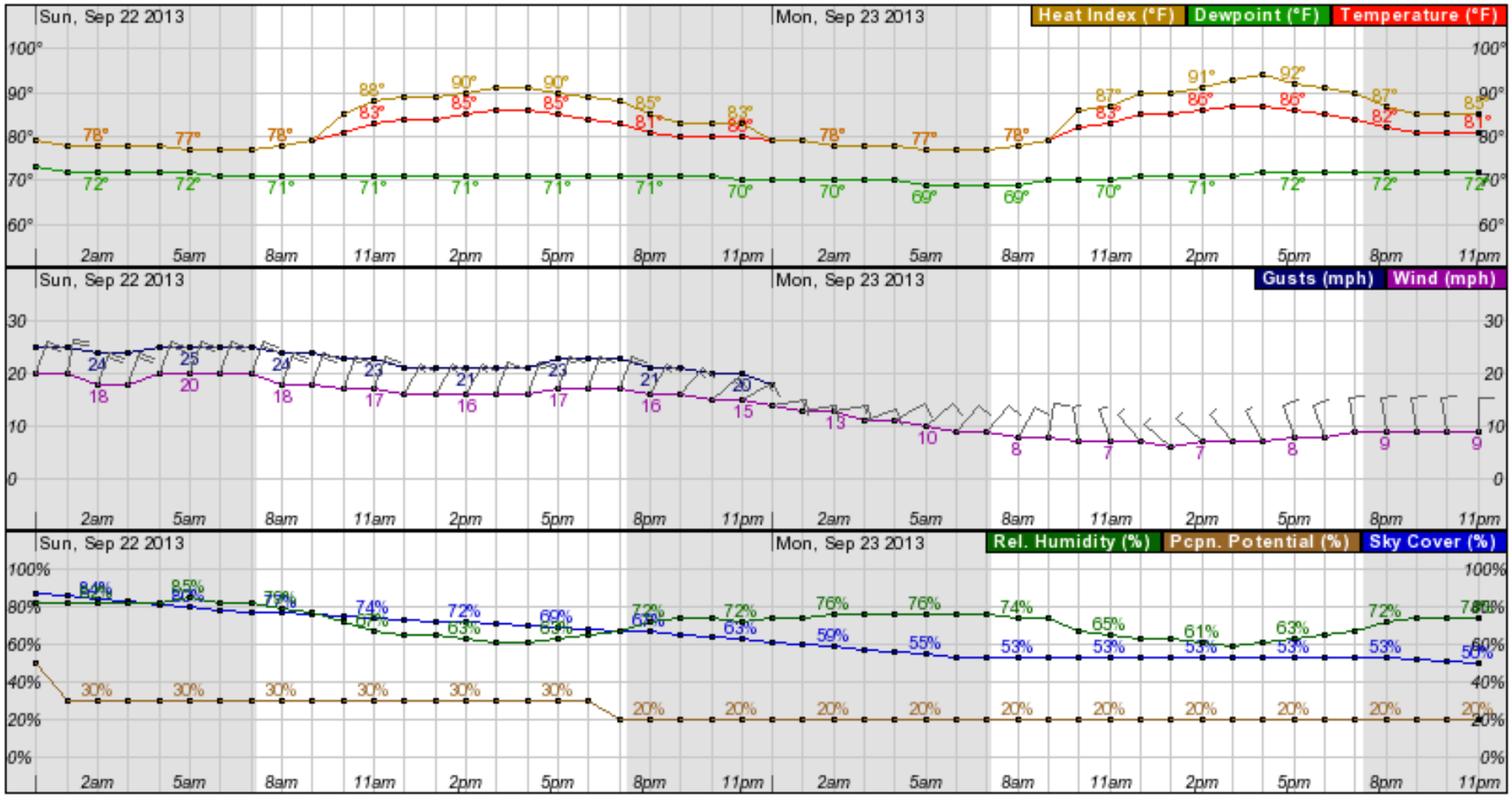


Galveston

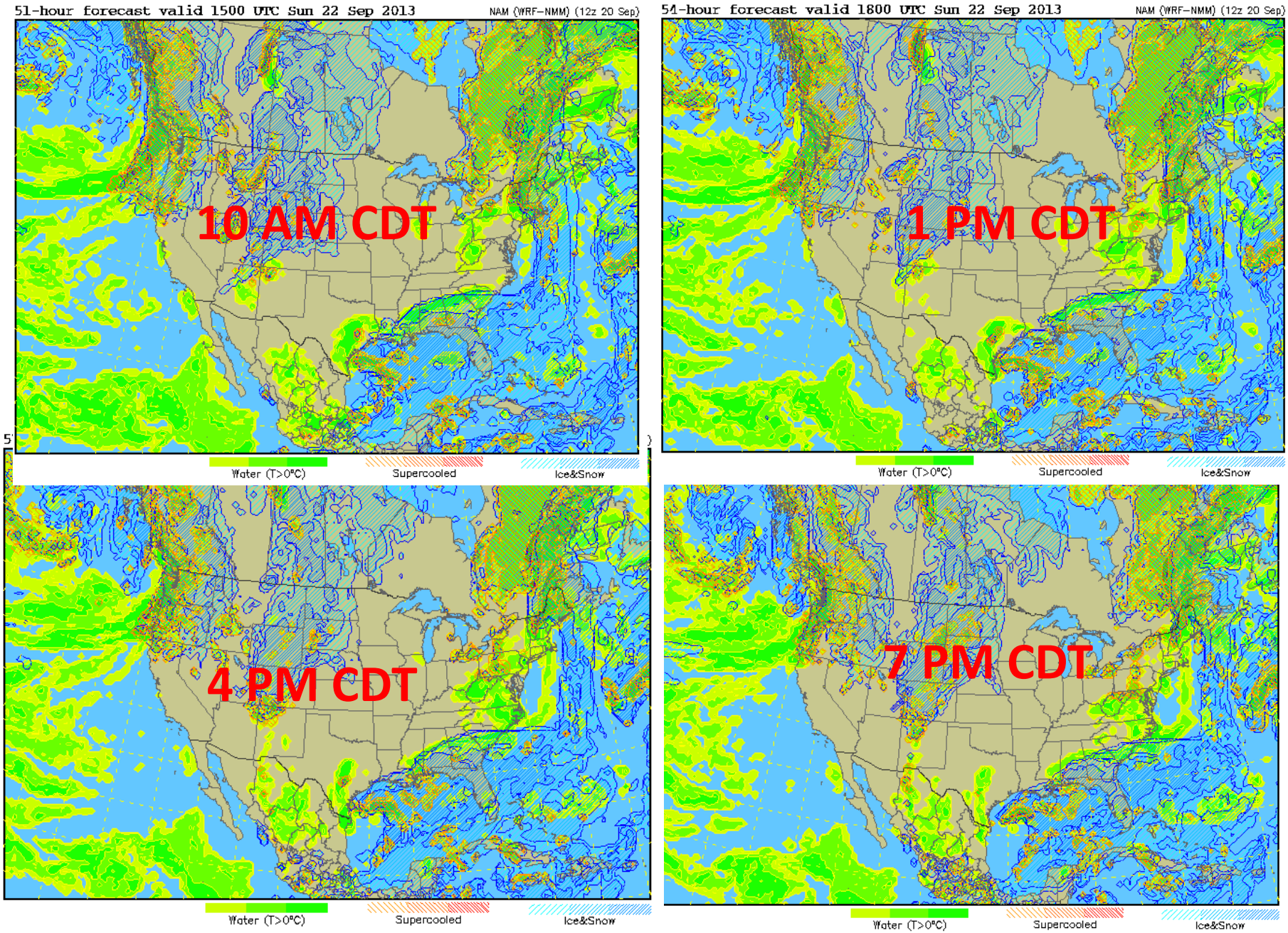
Sunday: Mostly cloudy

Monday: More cloud % near the coast

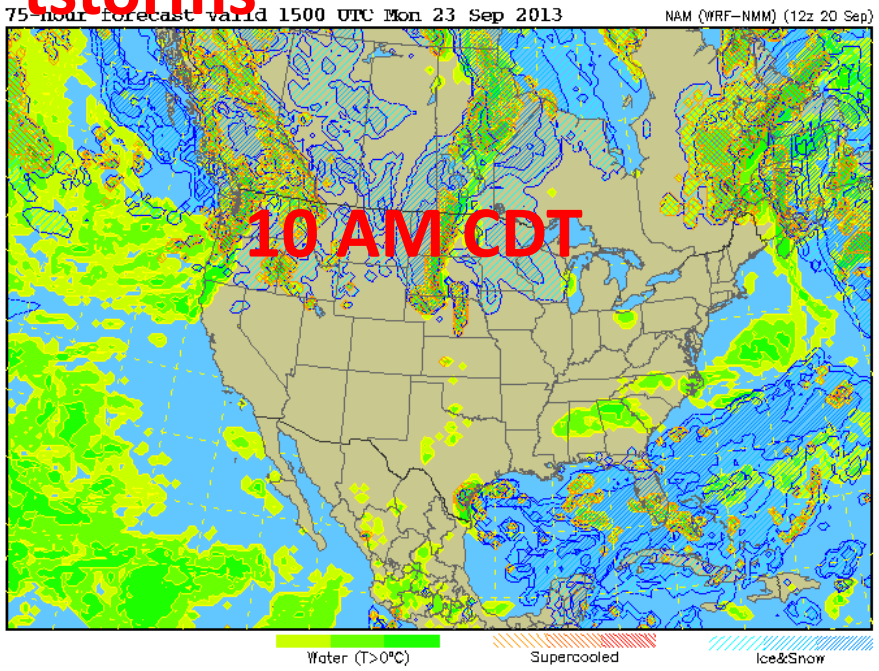
Sunday→ **Monday→**

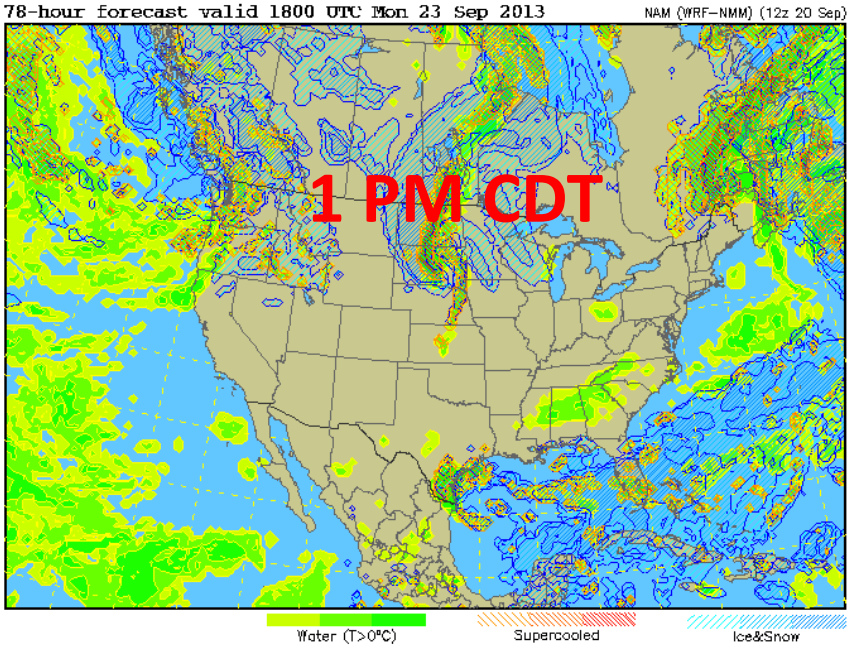


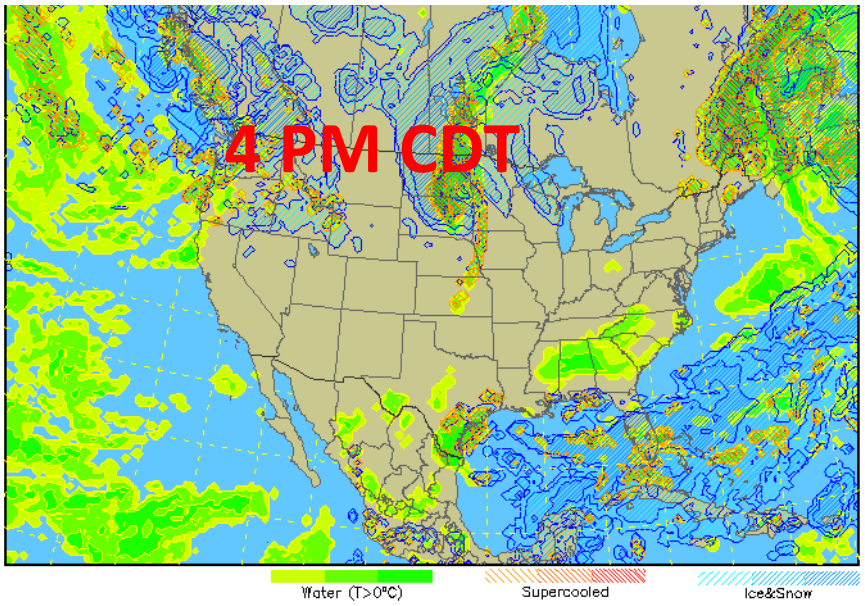
Sunday: NAM – Plentiful low clouds until late afternoon

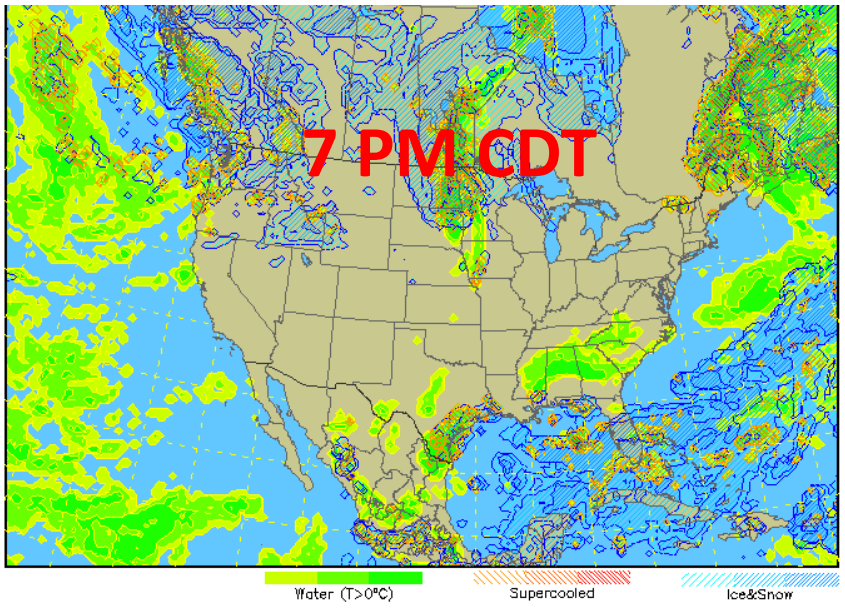


Monday: NAM – Cloud cover in afternoon from scattered tstorms









Summary

- Saturday: No fly day
- Sunday: Uncertain, but looks less promising by the hour
- Monday: Probable fly day. Clouds slowly clear as surface low exits but will have to watch cloud cover closer to the coast

DISCOVER-AQ Air Quality Outlook
September 20, 2013

Bryan Duncan

AQ SUMMARY

1) TCEQ AQ Forecast:

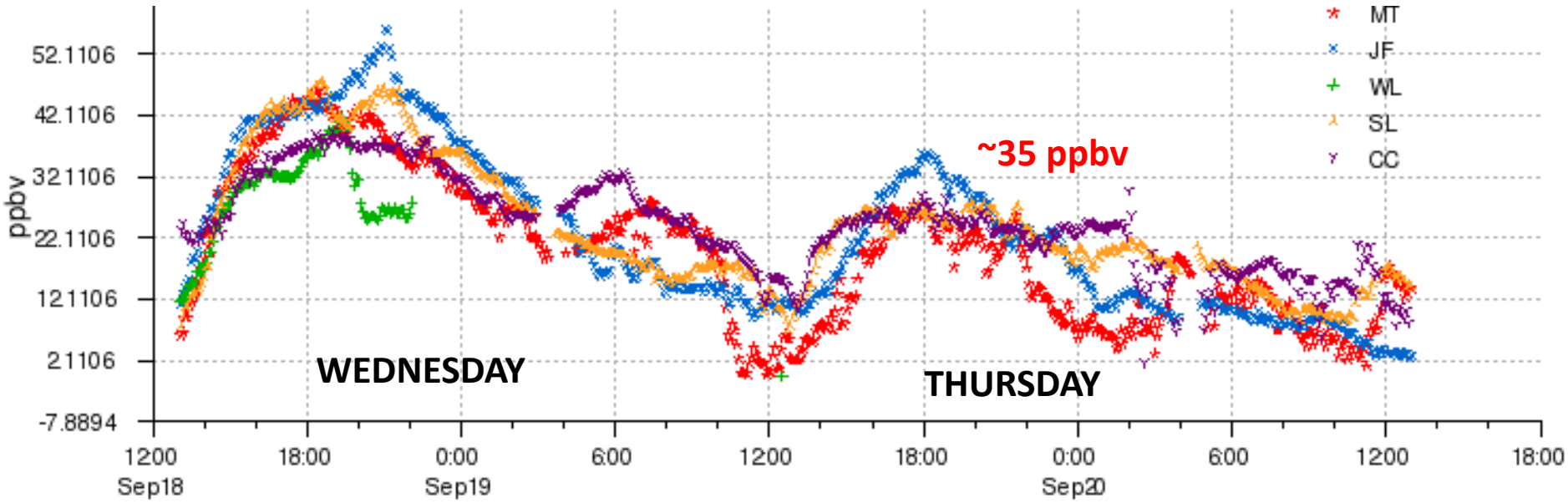
TODAY-MONDAY: Code Green – Good

~~SUNDAY: Code Yellow – Moderate (Ozone)~~

2) AQ Observations: very low ozone and $PM_{2.5}$ with marine air flowing over region.

HNET

Ozone (ppbv)



UTC