



EARTHSAT ENQUIRER

Keeping you informed on the latest projects at MDA EarthSat Weather

December '07/January 2008

Inside this Issue

Energy Weather.....1

Ag Weather.....3

Conferences.....4

Job Announcements.....4

Energy Weather

Now that the heating season is here, do not forget about some of the energy weather products that will assist you in the months ahead.

MDA EarthSat Weather has a joint product with PIRA Energy Group based in New York City. This product is called the Gas Weather Outlook (GWO).

GWO provides the latest EIA forecasts (current week and forward weeks). The report includes degree day updates weighted by natural gas and electricity consumption as well as a weather discussions. To the right is an example of the daily product.

Also, every Tuesday afternoon, separate pages are issued that includes a discussion from PIRA as well as updated weekly and monthly stats, including verification.

Coming Soon:
Weather forecasts in the context of 10-year normals!

There are also two joint conferences that are conducted. In the spring, the event takes place in New York City and in the fall, the event takes place in Houston. MDA EarthSat and PIRA Energy Group both offer their expertise prior to heading into the associated cooling or heating season.

PIRA Energy Group has been a product partner with MDA EarthSat Weather for over 10 years!



Gas Weather Outlook

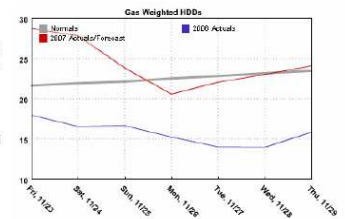
Wednesday, November 28, 2007

Forecaster: JS

Earth Satellite Weather Outlook:

Faster Midwest and Eastern Warming Next Week

After the storm in the Midwest late this weekend moves into Canada, strong cooling is still expected to rush into the Eastern US. Several days of temperatures ten to fourteen degrees below normal are expected. The change today is that both the American and European ensembles moderate temperatures and spread warming back across the Plains faster than was the case yesterday.



Gas-Weighted HDD Forecast

Actual	142.6	Normal	
	-19	Departure	
	134.5	2006	



Gas-Weighted HDD Forecast

Act/Fcst	157.7	Normal	
	12.4	Departure	
	1.1	Change	
	110.3	2006	



Gas-Weighted HDD Forecast

Forecast	175.1	Normal	
	16.9	Departure	
	-5	Change	
	191	2006	

PIRA Gas Storage Outlook

Gas Storage Changes (BCF)

Negative values denote net withdrawals.

Wk End		2007	Change	2006
9-Nov	Actual	-9	0	3
16-Nov	Actual	4	0	0
23-Nov	Forecast	-7	0	-27
30-Nov	Forecast	-78	-2	-14
7-Dec	Forecast	-115	n/a	-146

Gas Storage Levels (BCF)

Wk End		2007	2006	Diff.
9-Nov	Actual	3,536	3,449	+87
16-Nov	Actual	3,540	3,449	+91
23-Nov	Forecast	3,533	3,422	+111
30-Nov	Forecast	3,455	3,408	+47
7-Dec	Forecast	3,340	3,262	+78

MDA Federal Inc.
MDA EarthSat Weather
6011 Executive Blvd.,
Suite 400
Rockville, MD 20852
Ph# 240.833.8300
Fx# 240.833.8301

www.mdafederal.com/wx/



Energy Weather continued...

Interested in LNG/shipping as well as Europe and Japan weather for the winter? Check out MDA EarthSat's Global Weather Package.

This 8-page business daily report offers the latest analyses and forecasts of the global energy demand situation. A comprehensive set of European 1-5, 6-10, and 11-15 day forecast maps are provided along with individual city forecasts and written discussion that assesses the risks and concerns of the forecast period. Included on most business days is the European Editor's Notes. In addition, special e-mail updates are also included. Early delivery for the Europe energy markets is guaranteed. Beyond Europe, the Global daily report features key LNG specific areas targeted for Asia as well as the U.S. Atlantic Coast. As a quick reference, the Global Weather Highlights page features important weather impacts all on one page

An example of the daily European long range page is shown to the right.

Just a reminder that Riverside Technology, inc. and MDA EarthSat Weather has a joint hydro product. This product is an enhancement to the current Western Utilicast.

The product includes a weekly water supply forecast update. An example of this product is also shown to the right.

Do not forget about these products:

Rapid Models E-mails

Updates: 24/7 with issuance of model

Sunday Update

Updates: Sunday's at 3:00pm ET

ECMWF Weekly Climo Outlooks

Updates: Thursday's at 5:30pm ET

Cold Air Watch

Updates: Monday thru Friday at 8:30am ET

MDA EarthSat Weather European Long Range Forecast

6-10 DAY OUTLOOK

Aboves Remain in the West
December 3 - 7

6-10 Day Discussion
The overall pattern seen in the previous period looks to continue through this period as well. Ridging in between a system of troughs will help make way for warm temperatures in the far West and the East. Southerly flow under these areas of high pressure will push conditions above normal here through the period. Although, much of the EU will be seasonable as wet and cloudy conditions will be seen.

What Can Go Wrong???
Cold conditions could set in around the Mediterranean if one of these upper level systems stalls over this region.

Confidence: low 1 2 3 4 5 6 7 8 9 10 high

Previous Forecast
Dec 2 - Dec 6

11-15 DAY OUTLOOK

Warmth Continues Through East
December 8 - 12

11-15 Day Discussion
A slightly cooler outlook is seen today, though overall warm conditions are seen to persist through this period. Troughing continues to be shown to dig in over the Northwest, making for a strong flow off of warm waters for much of Europe. The NAO is forecast to remain around zero through this period, suggesting a stormy pattern will remain. The AO, however, is shown to be negative during this time.

What Can Go Wrong???
If the NAO moves to negative colder conditions could be seen across much of central Europe.

Confidence: low 1 2 3 4 5 high

Previous Forecast
Dec 7 - Dec 11

Water Supply Forecast Update - Pacific Northwest

Riverside Technology Forecast

Period	Volume [KAF]	% of Avg.	Change
JAN - JUL	112000	104%	-2%

Period	Volume [KAF]	% of Avg.	Change
JAN - JUL	66100	105%	-1%

Because the forecasts are for the 2008 water year, only the January-July volume/percent of average will be reported until we are closer to the forecast season.

Period	Volume [KAF]	% of Avg.
JAN - JUL	121000	113%

Period	Volume [KAF]	% of Avg.
JAN - JUL	70500	112%

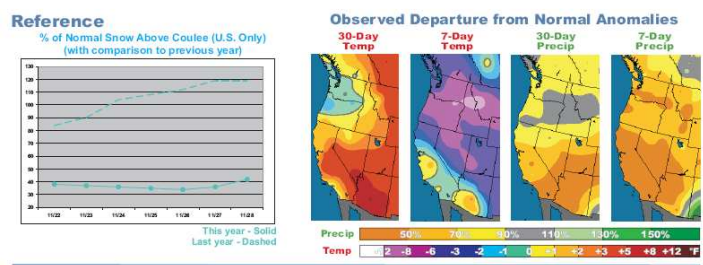
Looking at the current best fit analog years, one year is standing out above the rest in relation to the situation in the tropical Pacific. This week's alternative scenario looks at the winter of 1970-71 and what resulted in the Pacific Northwest.

Riverside Discussion

Though precipitation moved into the basin over the last week, it was slightly less than was anticipated in last week's forecast. The Upper Snake basin and the Canadian portions of the Columbia basin did not see significant precipitation. As a result, the water supply forecast for both locations drops slightly. The overall forecast is still above normal, reflecting the long-range outlooks continuing to point to wet conditions through January.

EarthSat Discussion

The recent cool down in the Pac NW came in even stronger than anticipated, with many areas averaging more than 5°F below normal for the week. Intermittent chances for snowfall will be seen through the weekend, which should bring an increase in snow pack to mountainous areas where snow pack is currently running behind normal and last year's pace. With few exceptions, it looks as though the month of November will end up being slightly drier than normal across the Northwest. This is still expected to change, as typical La Niña impacts include a wetter than normal Pac NW.

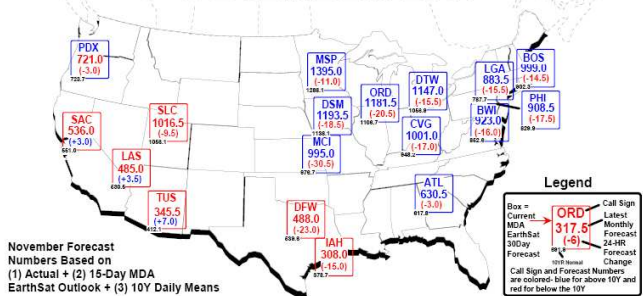




Energy Weather continued...

Weather Markets Daily Report
 Wednesday 11/28/07 9:35 AM MR FORECASTER

DECEMBER 2007



November Forecast Numbers Based on (1) Actual + (2) 15-Day MDA EarthSat Outlook + (3) 10Y Daily Means

Change Analysis
 Today's Biggest Changes
MCI (Down 30.5 HDDs); ORD (-20.5)
 As was the case in November, the western Midwest (mid-continent) looks to see the biggest volatility in the weeks ahead. Today's forecast thinking is warmer later next week into the 2nd week of December. This affects the Midwest the most, but notice all cities there still maintain their colder-than-10Y normal status.
PHL (Down 17.5 HDDs); BWI -16.0)
 The big issue here is Sun-Mon when a vigorous storm system is anticipated to pass west and north of the Mid-Atlantic. That course could offer a brief burst of very strong warming to these areas (late Sunday into early Monday), affecting two days. The current forecast may not yet be warm enough for this event so the odds appear likely (as long as the storm track remains relatively stable) for more of a downturn in HDDs tomorrow too. Strong cooling still follows later on Monday and into the balance of next week.

Risk Analysis
 Predicting Forecast Changes
Early Week Storm System
 The more inland track means more significant warming potential for the Ohio Valley and Mid-Atlantic. On the flip side, areas farther north (GRD, DTW) could see some snow and if a new coating is left behind, the follow-up cold could be stronger. Winter storms are notoriously difficult to forecast, so more changes are anticipated on this story.
Cold Outbreak
 The main focus appears to be the Midwest and East Coast areas and this feature is the main reason why all these cities are still running colder than the 10Y normal in the December estimates here. The latest weather models are still offering warming trends for the second week of December, but there is little evidence of stability of that warming. In fact, there are some hints today of the pattern rebuilding toward the cold side again just after this period.

MDA EarthSat Weather (240) 833-8300 Fax (240) 833-8301 www.mdafederal.com
 RMS (Phone Number Here) www.rms.com
 Copyright 2007

MDA EarthSat is teaming up with Risk Management Solutions (RMS) to launch a new product.

This new product, called the Weather Markets Daily Report, includes degree day information for all 18 U.S. CME. This daily product forecasts monthly values by using MDA EarthSat's actual weather data, 15-day forecasts and 10 year daily means.

A change analysis and risk analysis discussion is part of the product along with color coded data denoting a cooler or warmer forecast change.

For more information about energy weather products or to sign up, please contact Chris Hyde at christopher.hyde@mdafederal.com or phone direct at 240.833.8322
www.mdafederal.com/wx/

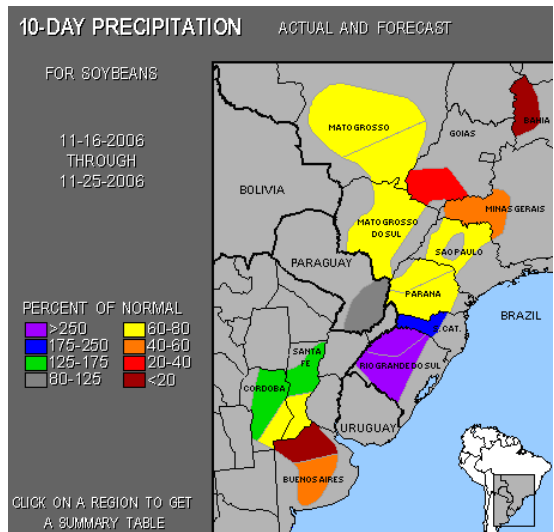
Agricultural Weather

It may be the quiet time of the year for the North American growing season but South America is just ramping up.

MDA EarthSat Weather's agricultural products monitors growing regions in South America associated with coffee, cocoa, beans and corn. The ag version of the rapid models e-mails has model precipitation output in this region. Besides the GFS version, the ECMWF version is also available.

MDA EarthSat Weather also offers Soywarn Service which monitors soybean threats. This product has a detailed forecast and recent analysis of growing conditions via user-friendly maps. Soywarn Service also includes charts to follow growing conditions at CRD/state level throughout the season.

An example of this product is shown to the right.



For more information about ag weather products or to sign up, please contact Joel Widenor at joel.widenor@mdafederal.com or phone direct at 240.833.8238
www.mdafederal.com/wx/



Conferences

The fall version of the MDA EarthSat/PIRA Energy Conference took place in Houston earlier in November. A special thanks for the attendees who signed up as the event was a success!

The 6th Annual Agricultural Conference will once again be in Chicago. It will take place during the afternoon on Wednesday, April 2nd at the Renaissance Chicago Downtown on 1 West Wacker Dr. Look for more information on this event and future events at:

<http://www.earthsat.com/conferences/>

The next joint MDA EarthSat/PIRA Energy Conference will take place on Thursday, May 1st in New York City. More details on the agenda and registration will show up in the next newsletter and also in the conferences website listed above.

Would you like to attend a weather workshop to learn more about weather and the links to the commodities industry? Are you a trader that needs to enhance your daily routine? Are you a meteorologist who needs to brush up on the latest in weather?

This past spring's Penn State workshop for traders and meteorologists was a success and we are trying to gauge whether we should conduct another similar event in May 2008. Please send me any interest and feedback you may have.

For more information about conferences or to register, please contact Chris Hyde at christopher.hyde@mdafederal.com or phone direct at 240.833.8322

www.mdafederal.com/wx/

Job Announcements

Meteorologist Needed!

Large energy company based in **Boston** seeking qualified meteorologist to assist in daily operations. Candidates need to contact Chris Hyde for more information.

Meteorologist Needed!

Large Canadian energy trading desk based in **Toronto** seeking qualified meteorologist to assist in daily operations. Candidates need to contact Chris Hyde for more information.

Meteorologist Needed!

Large energy company based in **Houston** seeking qualified meteorologist to assist in daily operations. Candidates need to contact Chris Hyde for more information.

For more information about job announcements or to post, please contact Chris Hyde at christopher.hyde@mdafederal.com or phone direct at 240.833.8322

www.mdafederal.com/wx/

Happy Holidays

from all of us here at MDA EarthSat Weather!