

# Idaho Weather, Climate and Water Supply Outlook

IDWR Briefing, Jan 13<sup>th</sup> 2011

Jay Breidenbach, NOAA National Weather Service

Snow Accumulation Movie

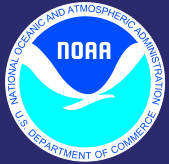
Temperature and Precipitation Anomalies

Wet Forecast for next 7 days

La-Nina Status

Three Month Climate Outlook

Water Supply Numbers and Drought Summary



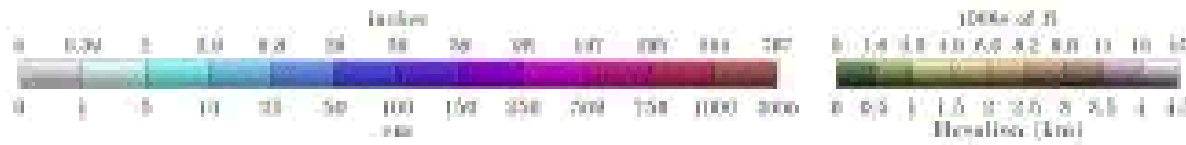
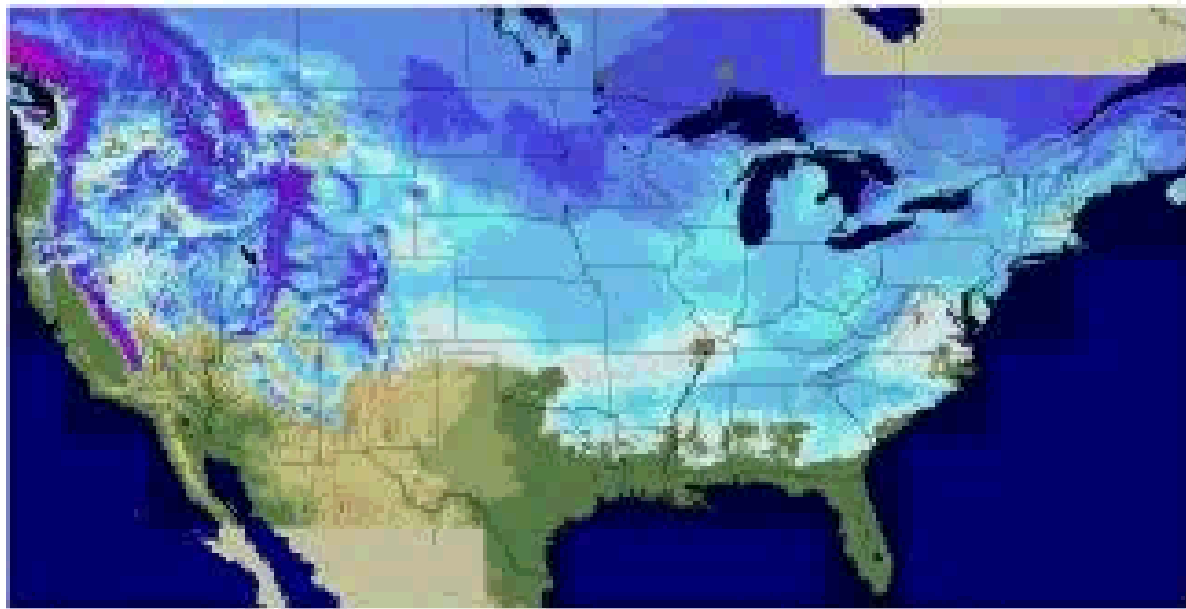
# 2011 Water Year Snow Accumulation Movie



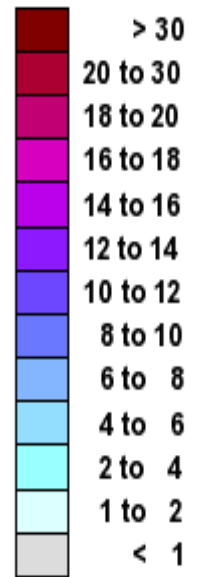
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep

National Snow 2010-2011 Analysis

Snow Depth  
2011-01-13 00

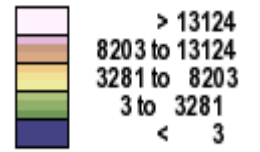


Inches of water equivalent



Not Estimated

Elevation in feet  
(Not estimated)



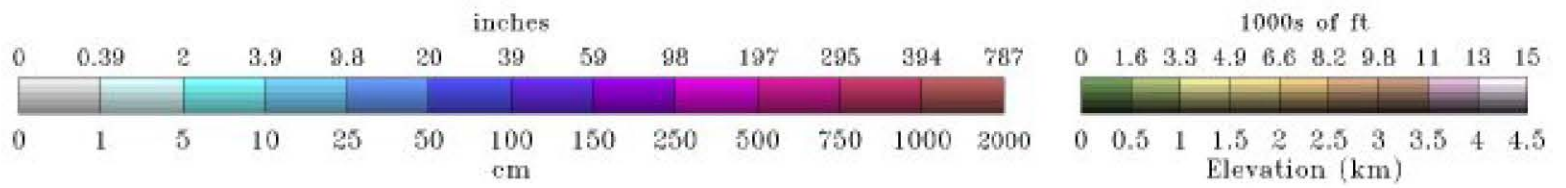
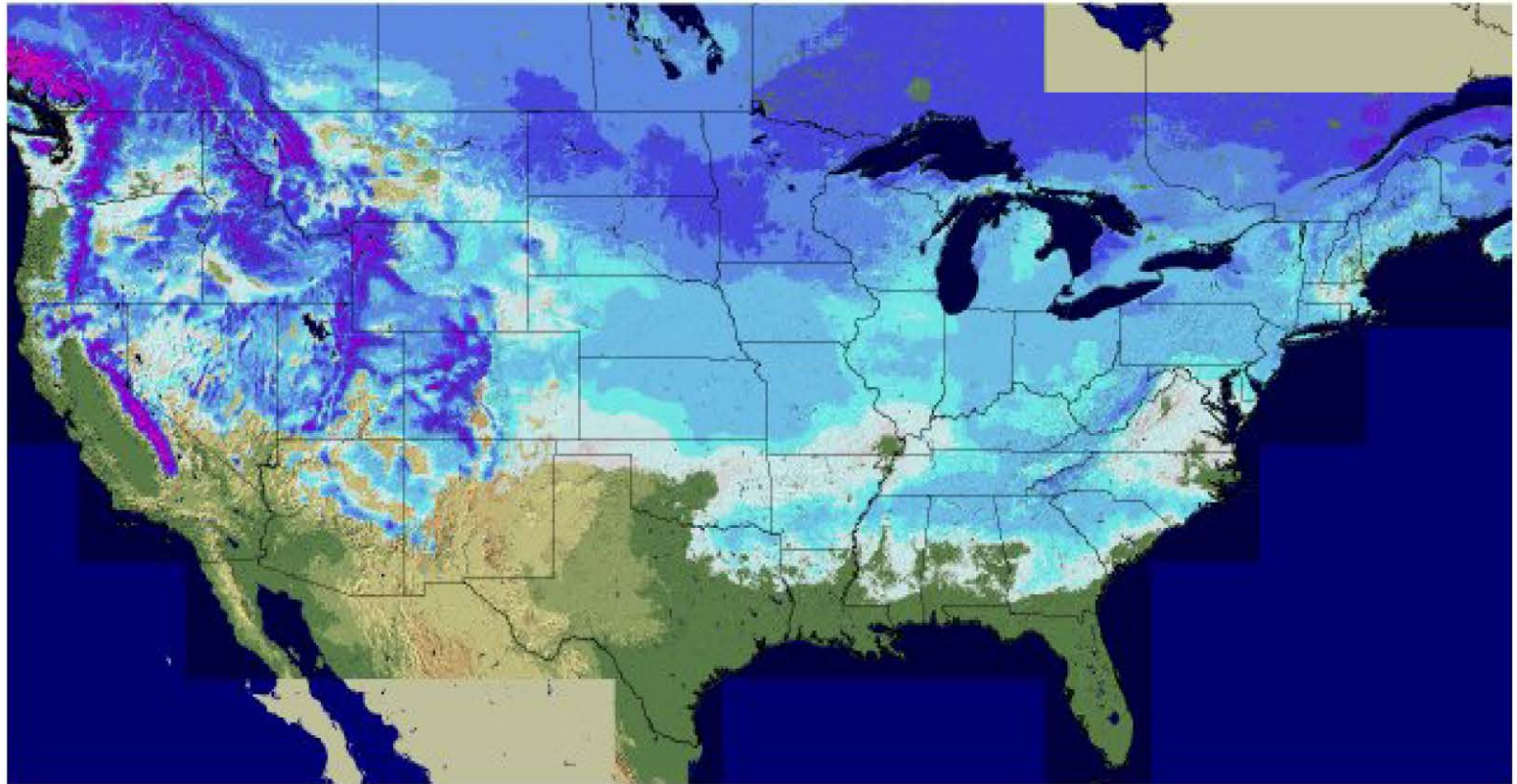
Start Speed in ms: 200 Jan 12th, 05Z



National Snow 2010-2011 Analysis 2011

# Snow Depth

2011-01-12 06



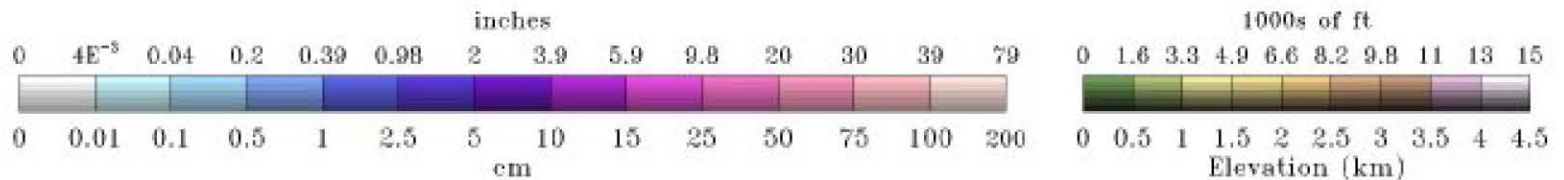
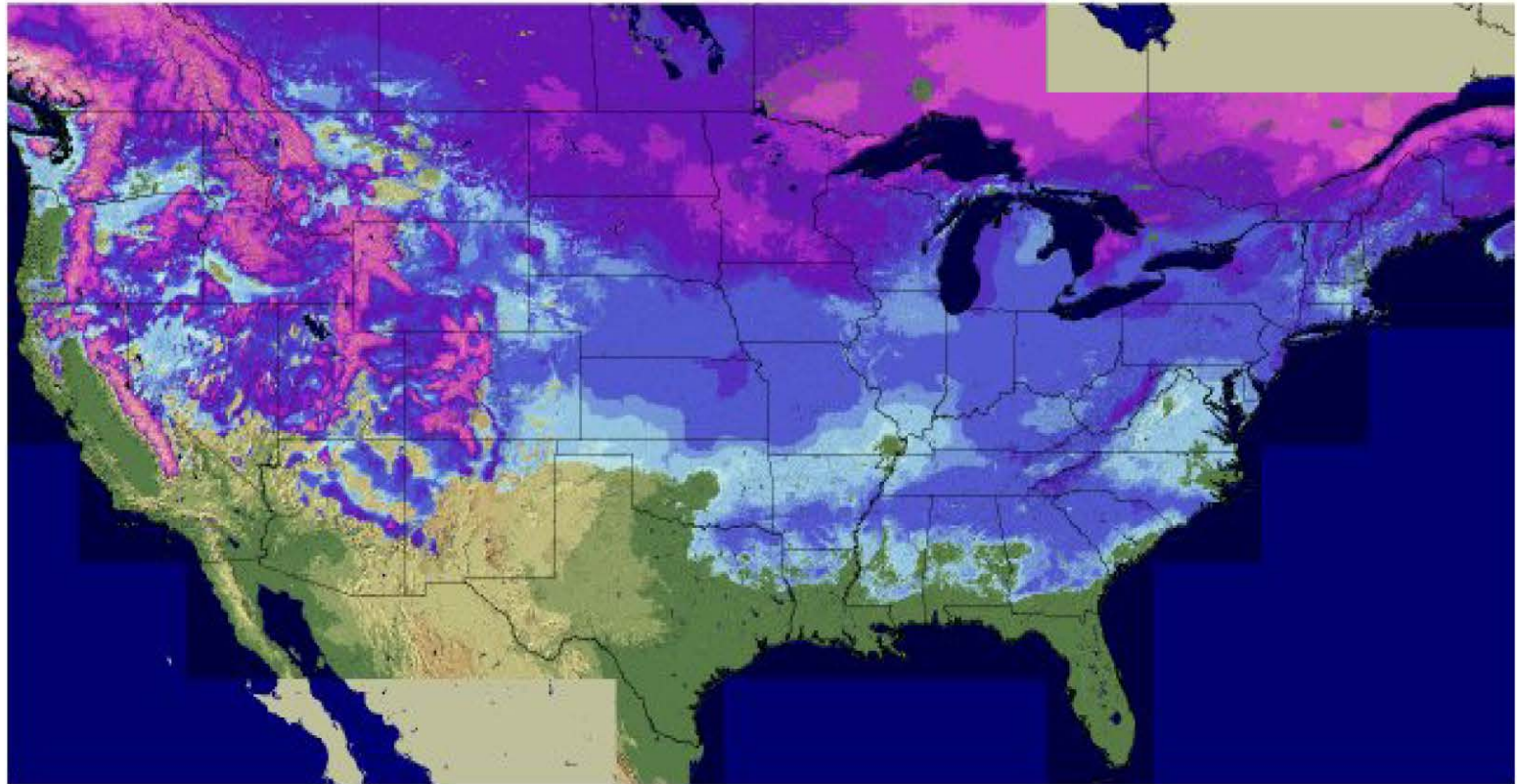




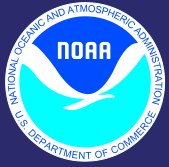
National Snow 2010-2011 Analysis 2011

# Snow Water Equivalent

2011-01-12 06

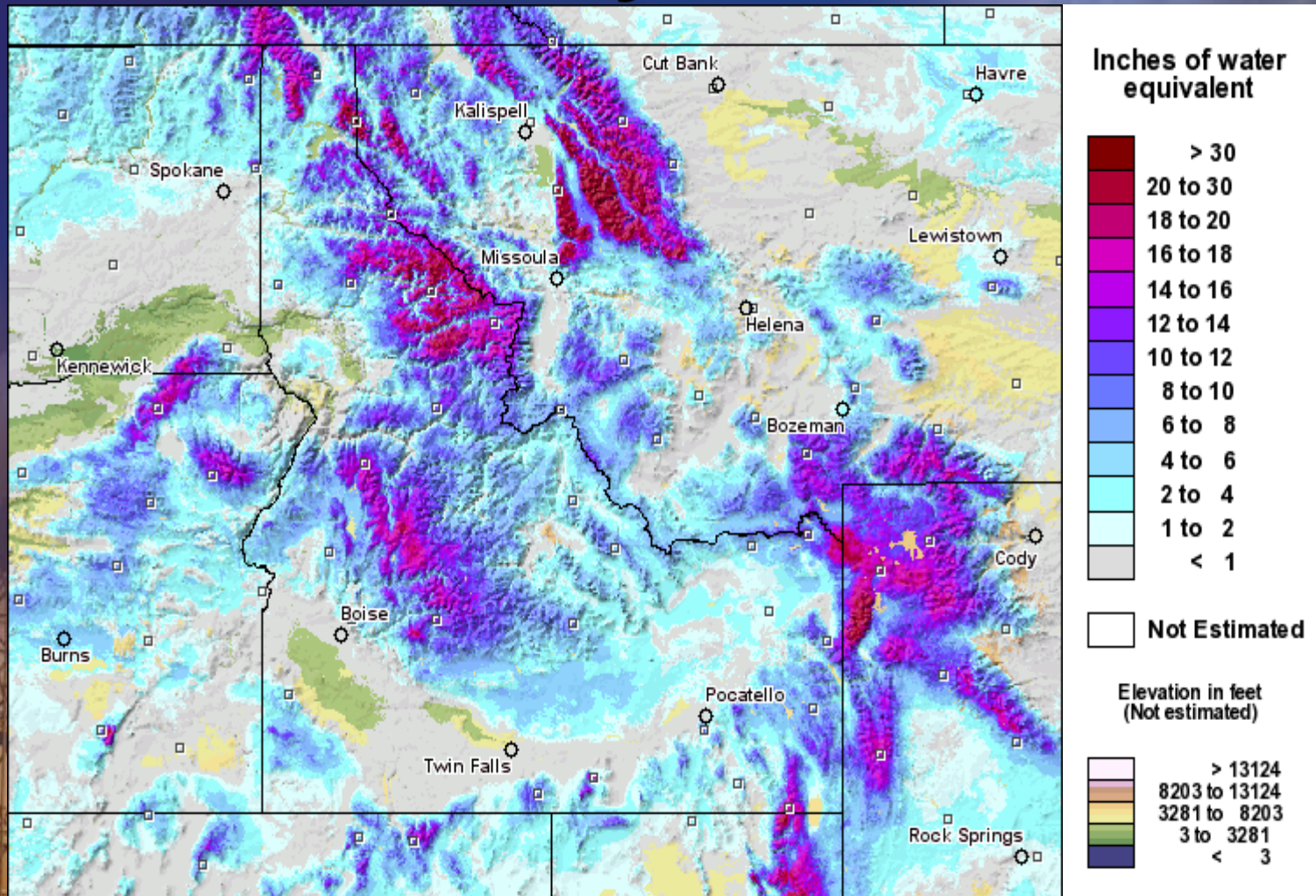




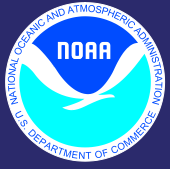


# Snow Water Equivalent

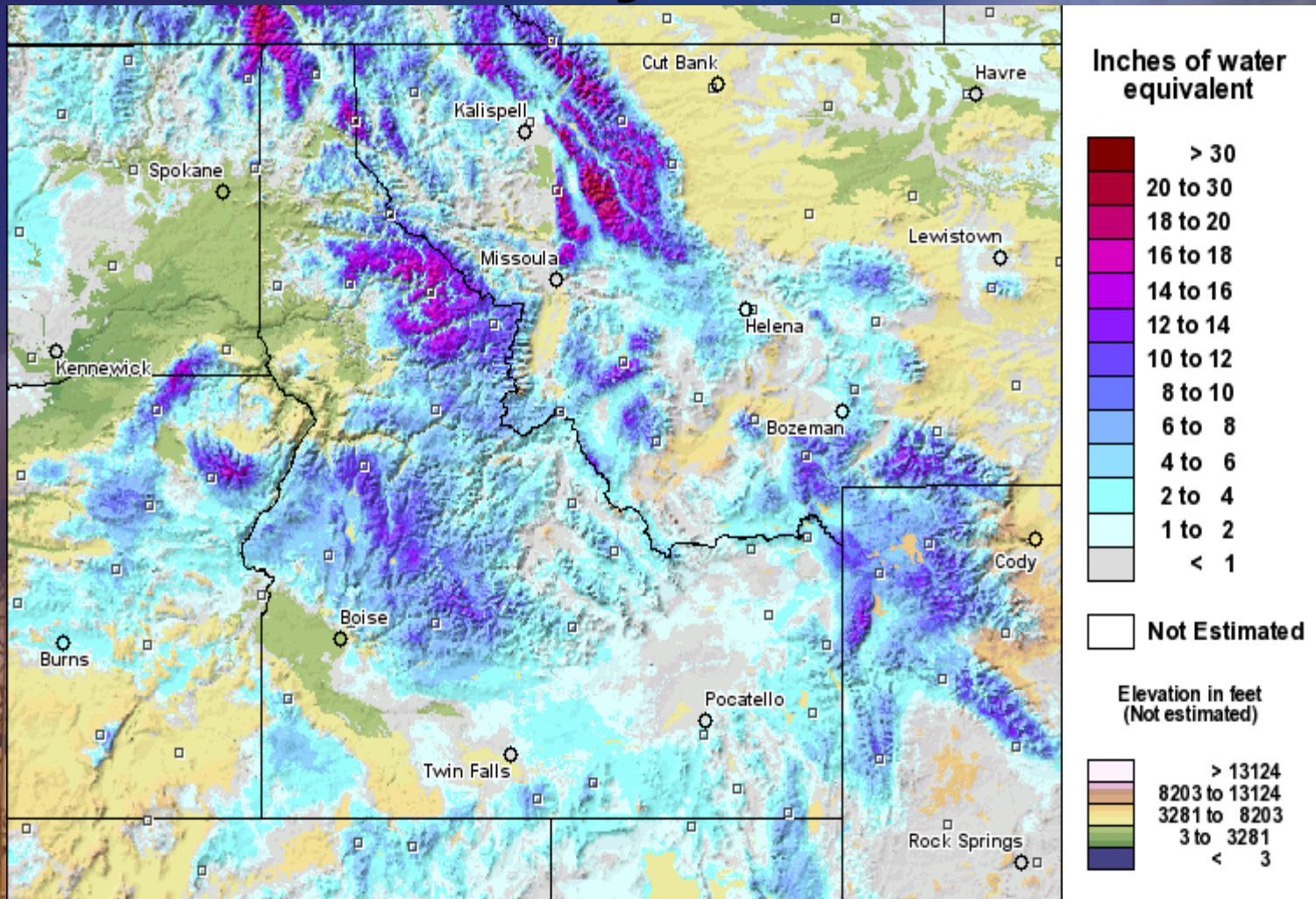
## January 13th, 2011



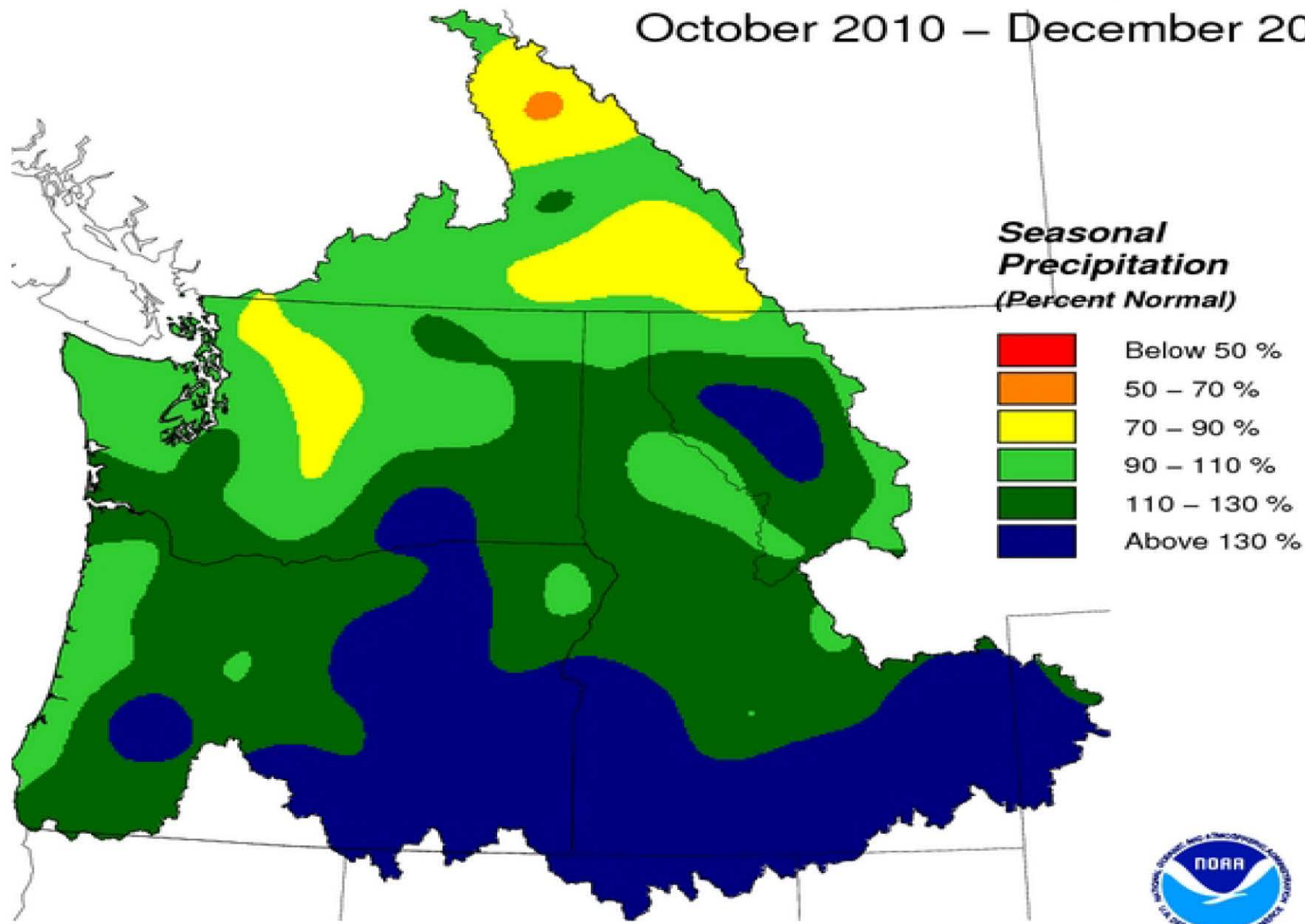




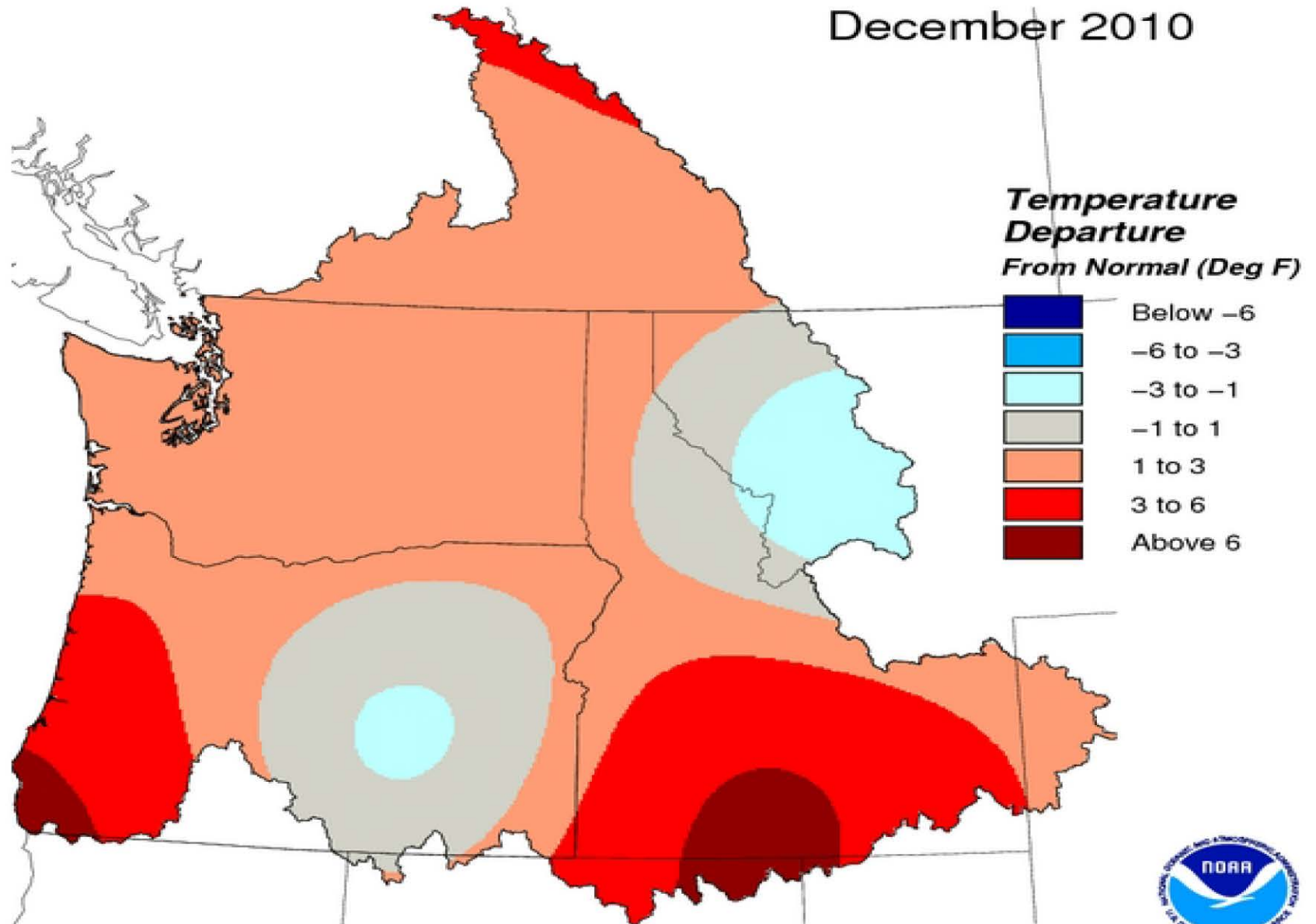
# Snow Water Equivalent January 13th, 2010



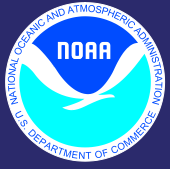
# Seasonal Precipitation October 2010 – December 2010



# Temperature Departure December 2010



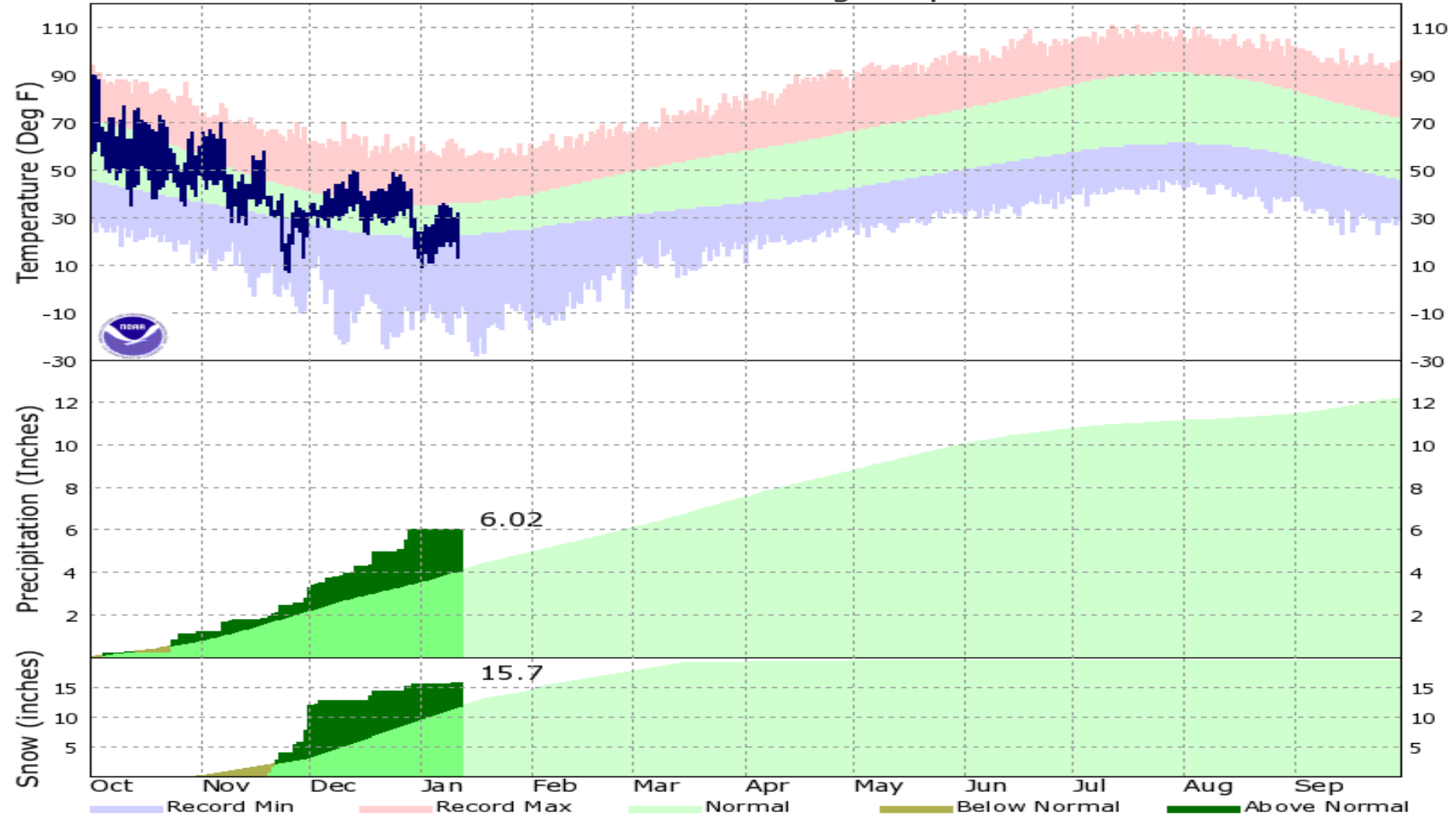




# Temperature and Precipitation at Boise

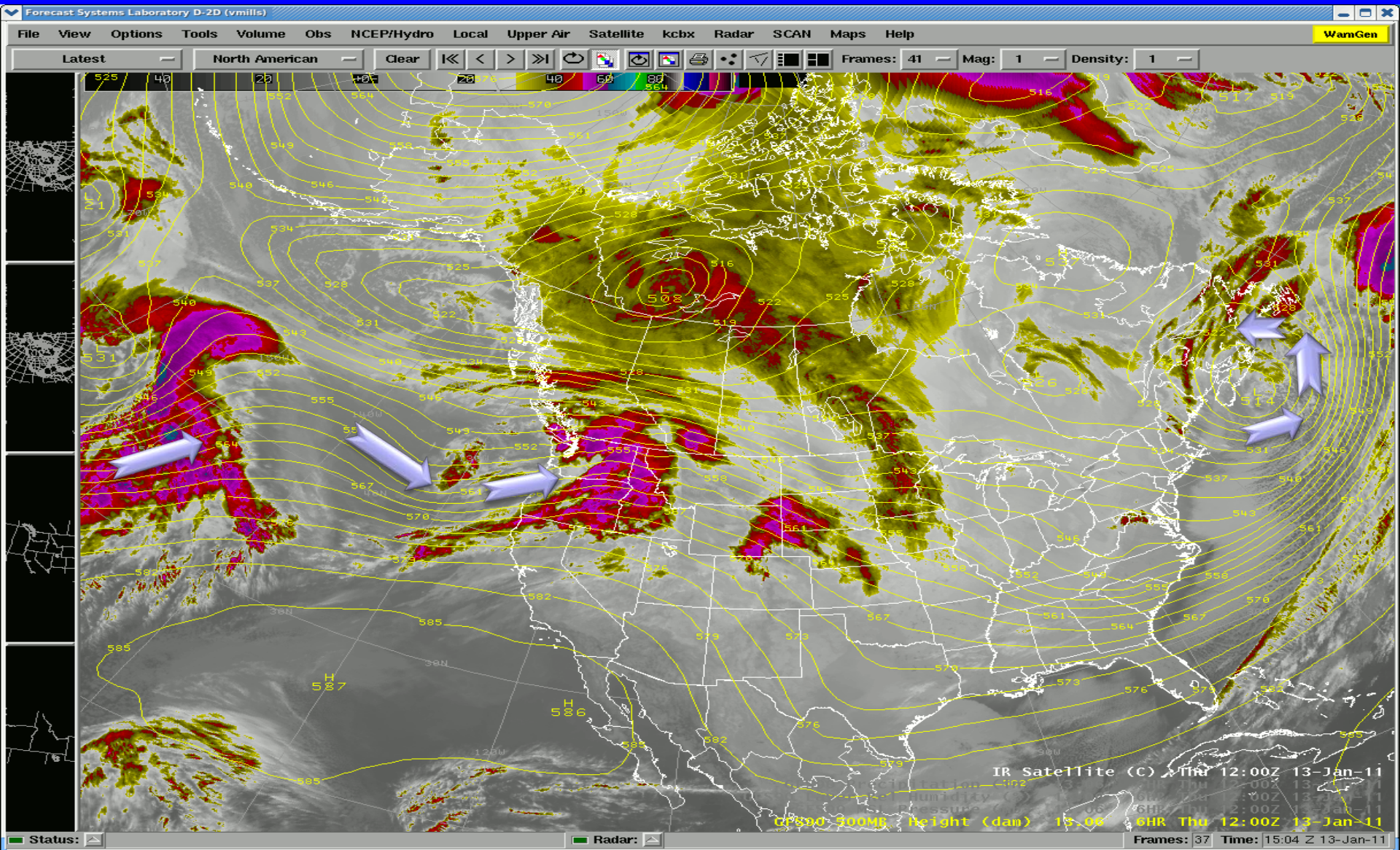


KBOI - Oct 2010 Through Sep 2011



# Thursday - Jan 13th

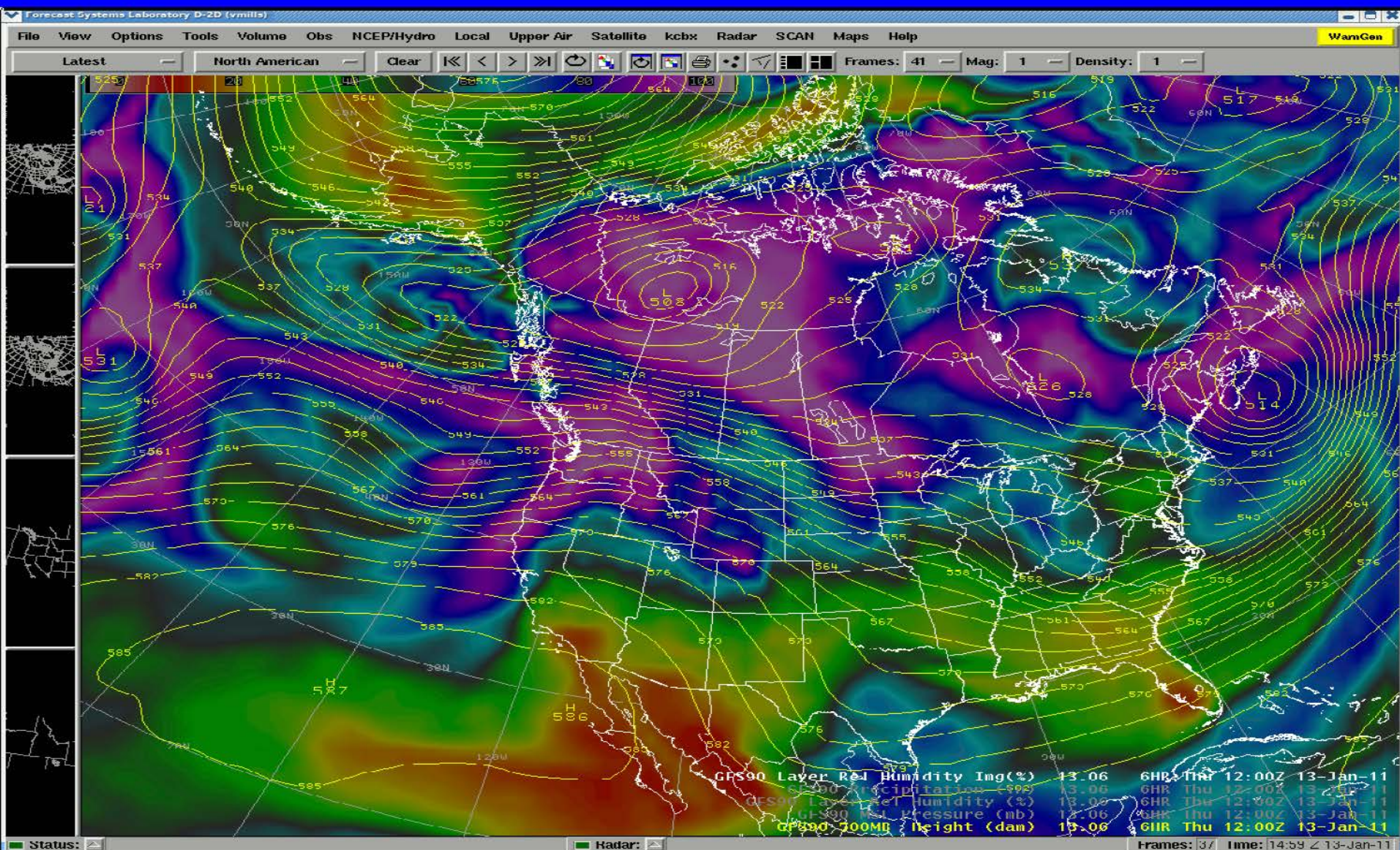
## IR Satellite Imagery / 500 mb heights





# Thursday - Jan 13th

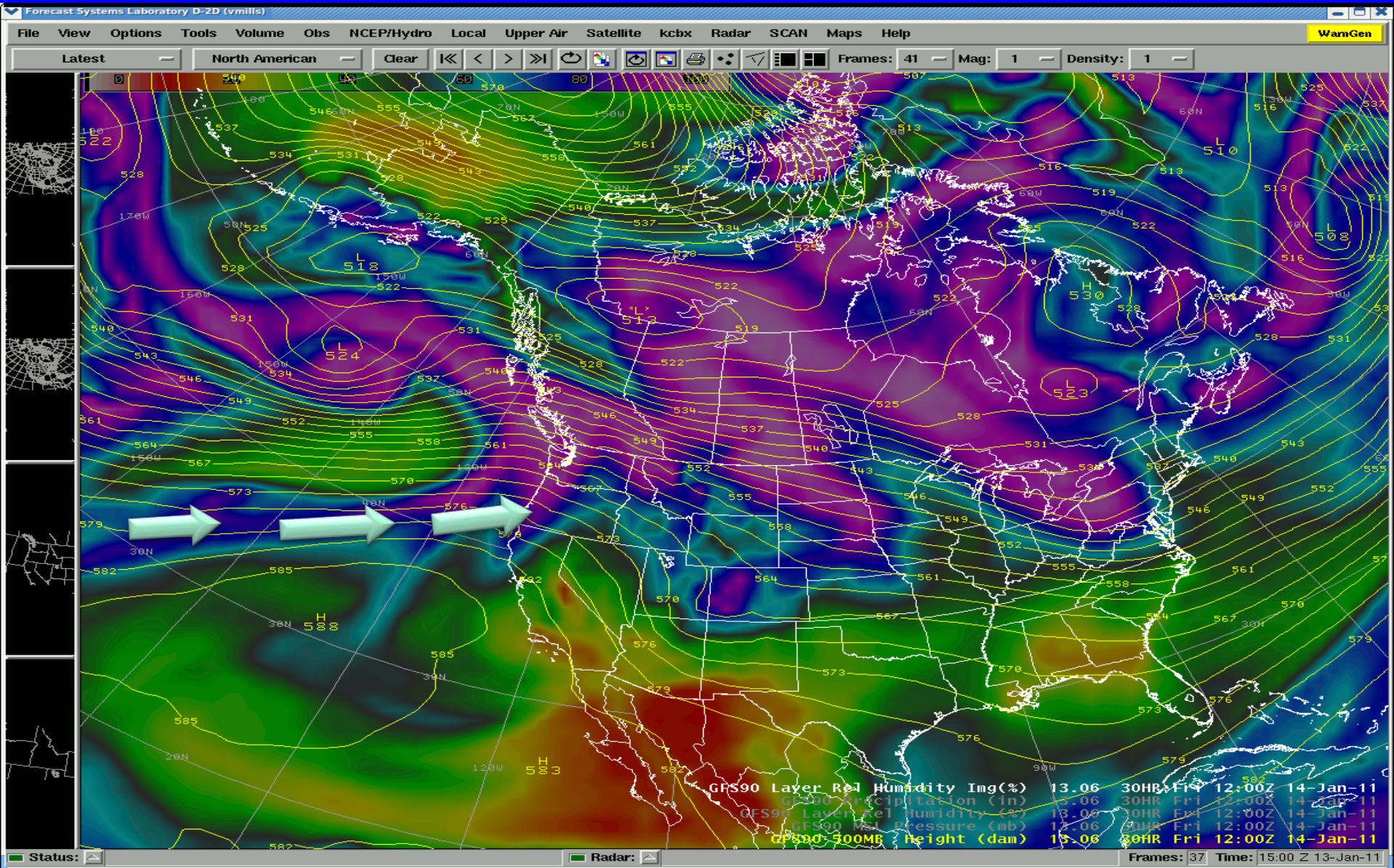
## 500 mb heights / model precipitation





# Friday, Jan 14th

## 500 mb heights / model precipitation









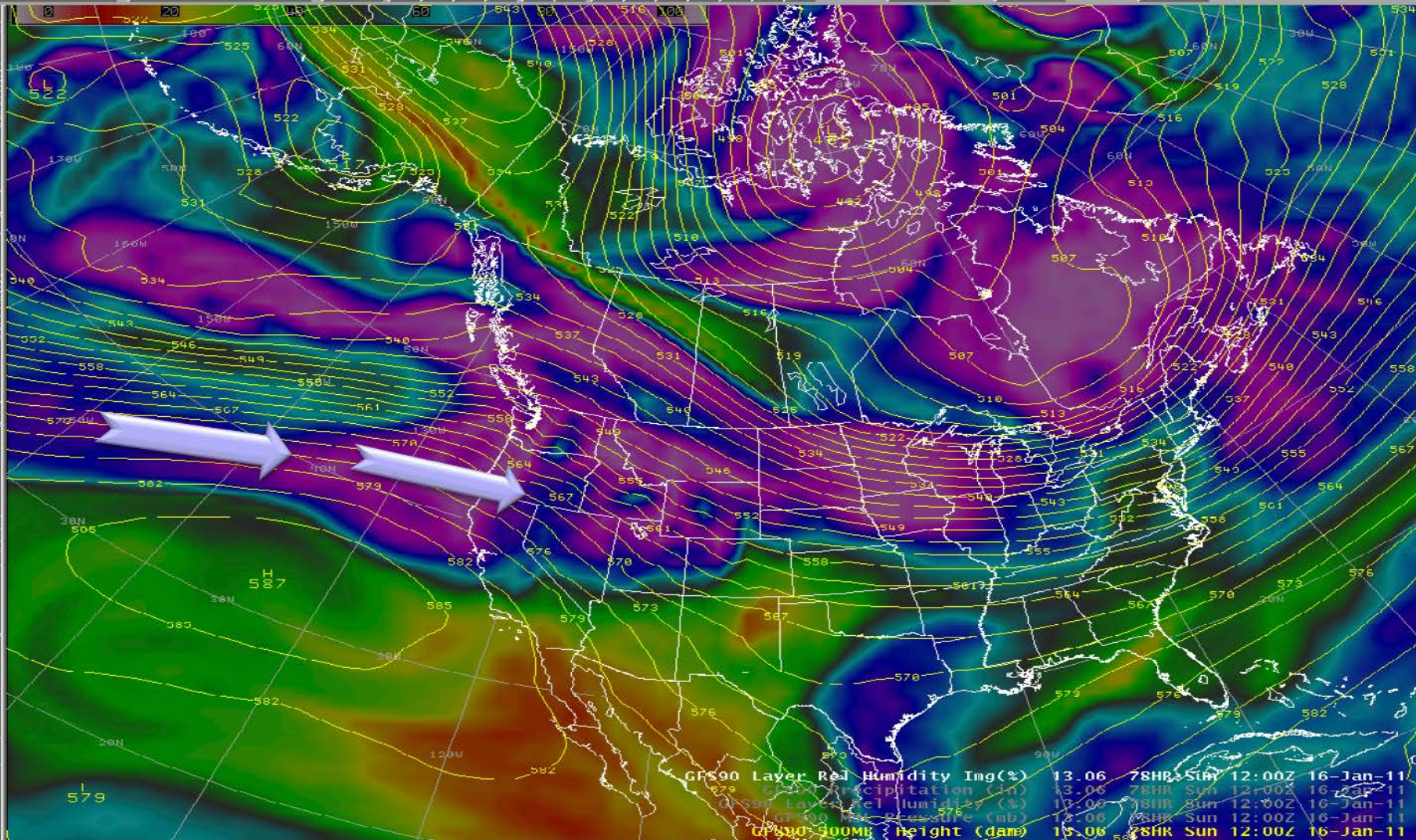
# Sunday, January 16th

Forecast Systems Laboratory D-2D (vmills)

WamGen

File View Options Tools Volume Obs NCEP/Hydro Local Upper Air Satellite kcbx Radar SCAN Maps Help

Latest North American Clear < > Refresh Print Frames: 41 Mag: 1 Density: 1



GPS00 Layer Rel Humidity (mg%)	13.06	78HR Sun	12:00Z	16-Jan-11
GPS00 Precipitation (in)	13.06	78HR Sun	12:00Z	16-Jan-11
GPS00 Layer Rel Humidity (%)	13.06	78HR Sun	12:00Z	16-Jan-11
GPS00 Max Pressure (mb)	12.06	78HR Sun	12:00Z	16-Jan-11
GPS00-500MB height (dam)	15.08	78HR Sun	12:00Z	16-Jan-11

Status: Radar: Frames: 37 Time: 15:01 Z 13-Jan-11



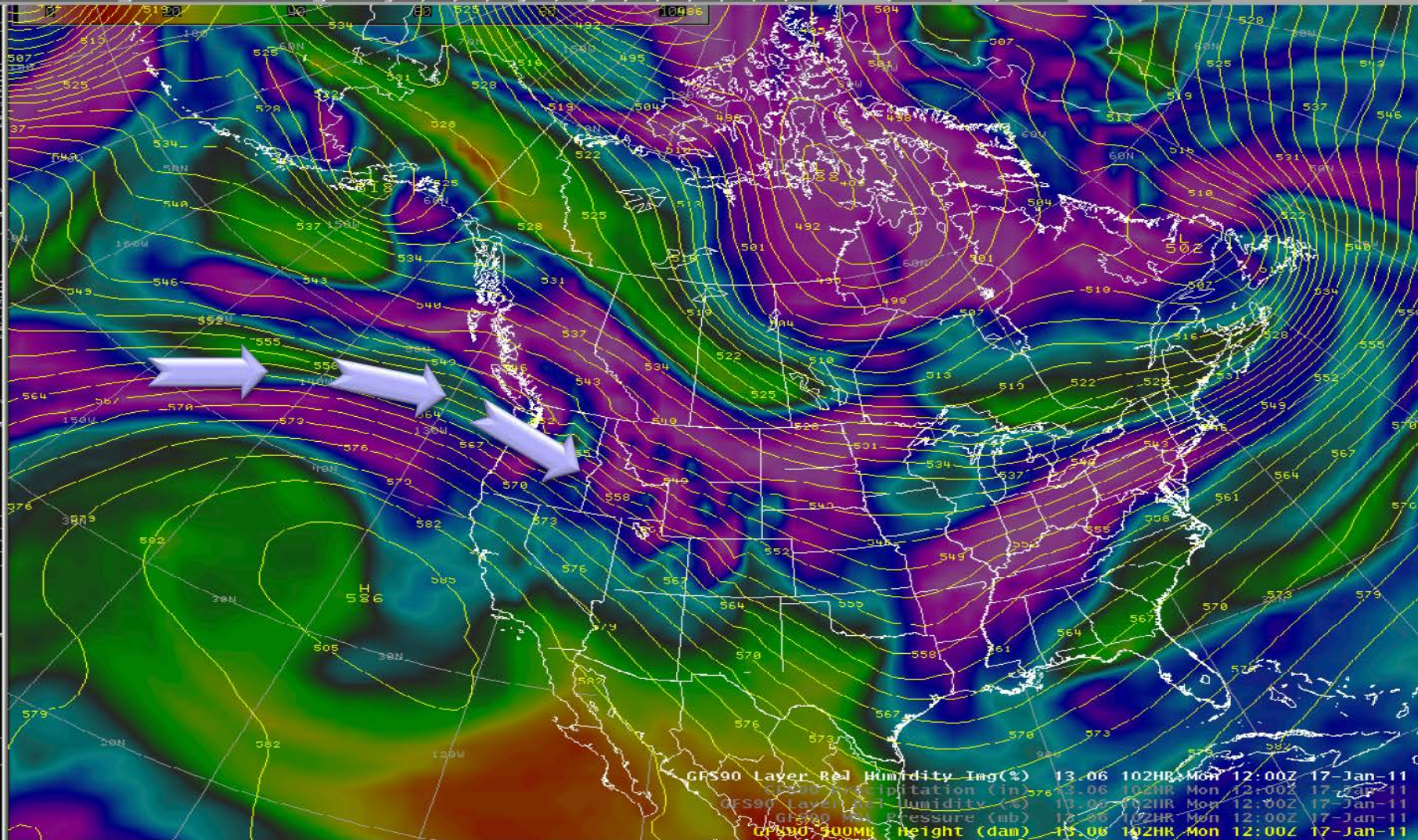
# Monday, January 17th

Forecast Systems Laboratory D-2D (v8mills)

WamGen

File View Options Tools Volume Obs NCEP/Hydro Local Upper Air Satellite kcbx Radar SCAN Maps Help

Latest North American Clear < > Refresh Print Settings Frames: 41 Mag: 1 Density: 1



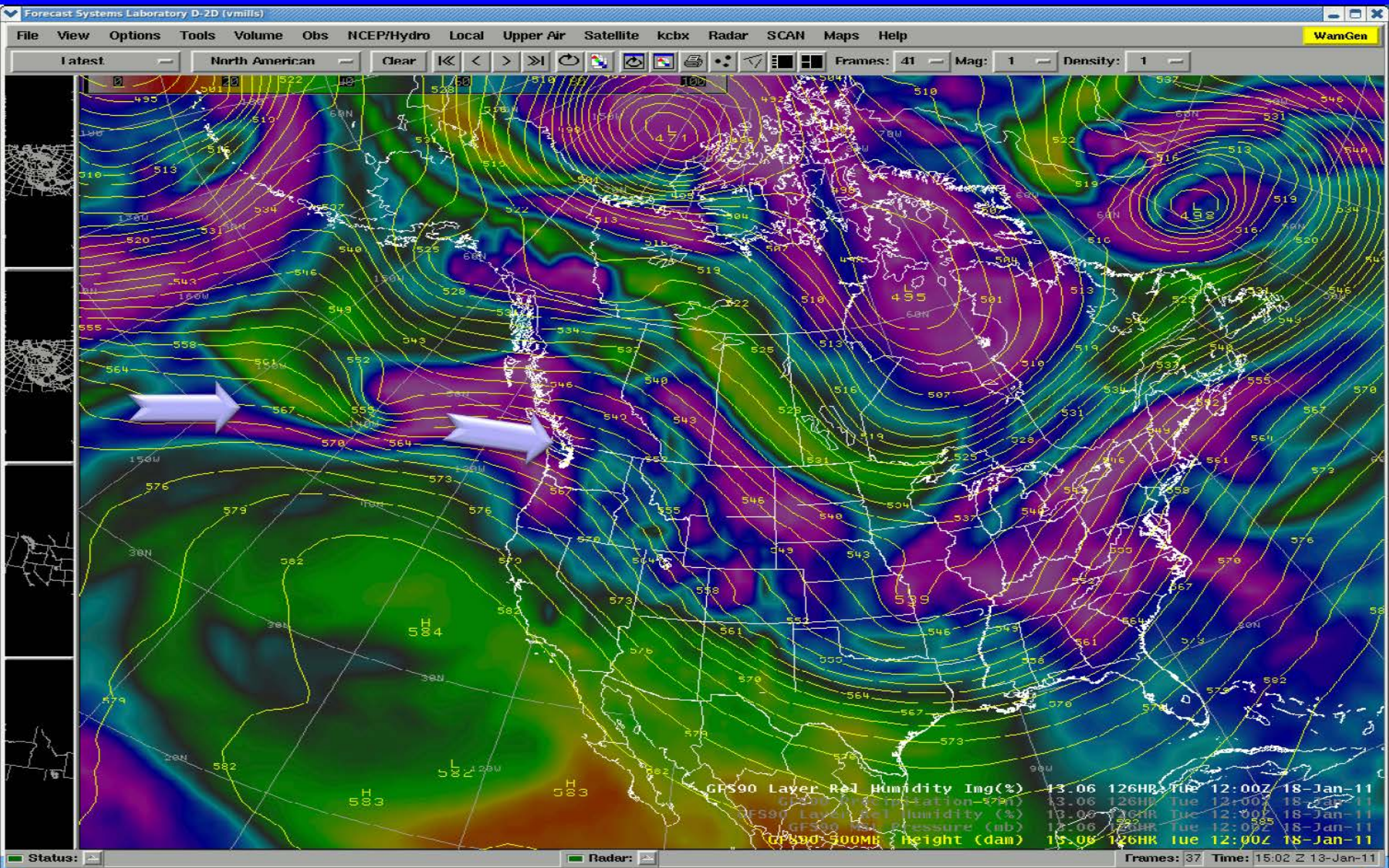
Status: [ ]

Radar: [ ]

Frames: 37 Time: 15:02 Z 13-Jan-11



# Tuesday, January 18th





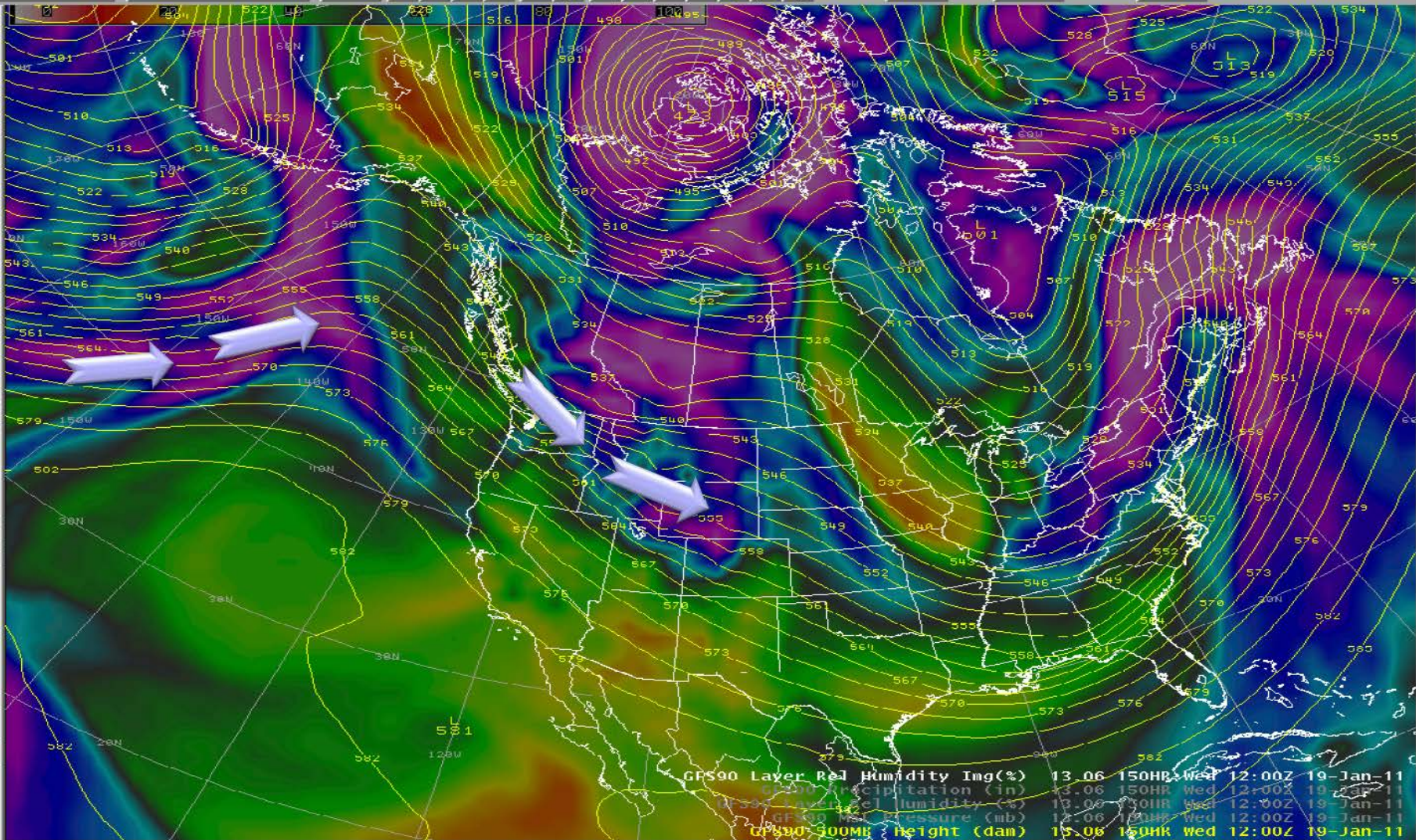
# Wednesday, January 19th

Forecast Systems Laboratory D-2D (vmills)

File View Options Tools Volume Obs NCEP/Hydro Local Upper Air Satellite kcbx Radar SCAN Maps Help

WamGen

Latest North American Clear Frames: 41 Mag: 1 Density: 1



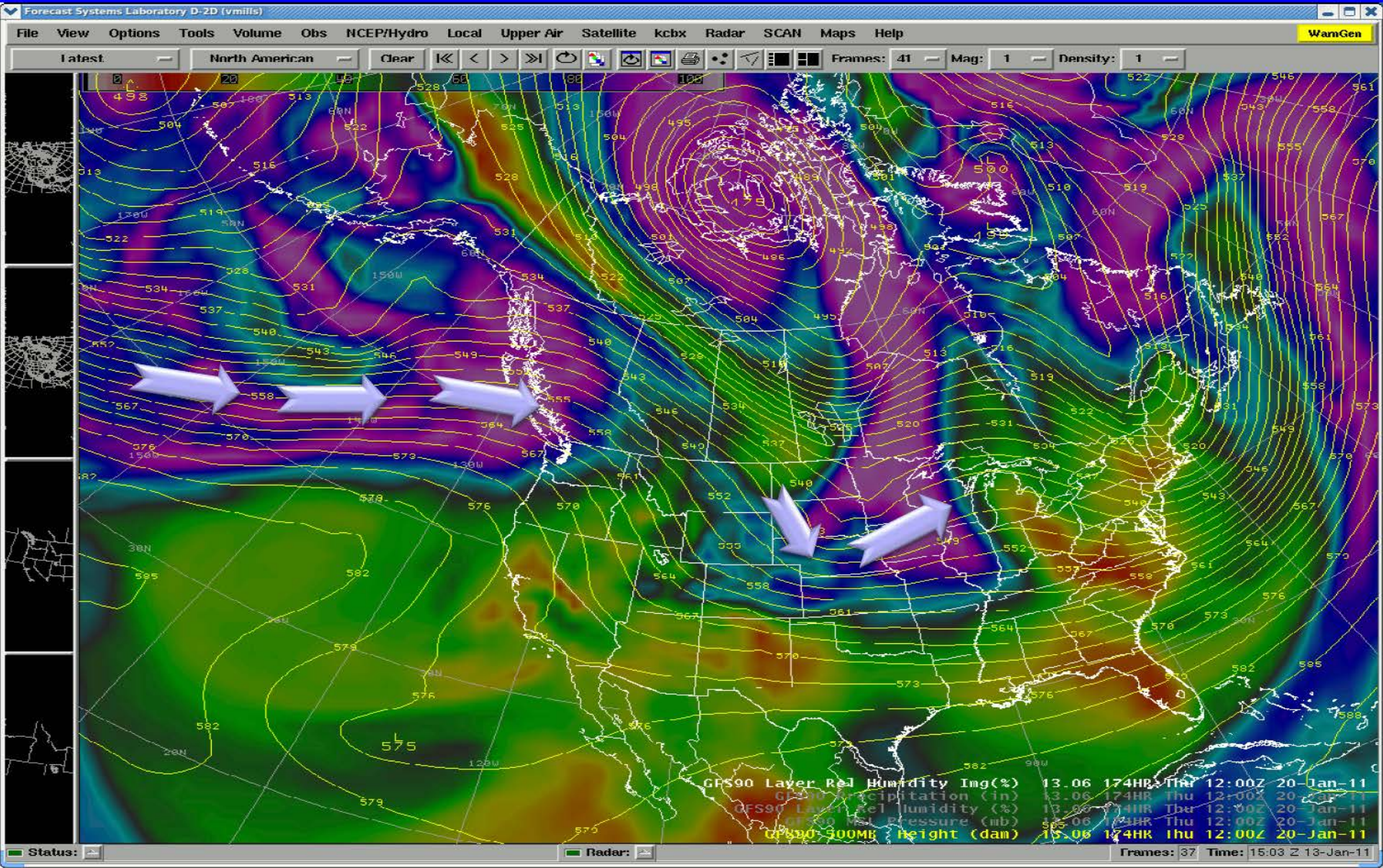
Status:

Radar:

Frames: 37 Time: 15:02 Z 13-Jan-11

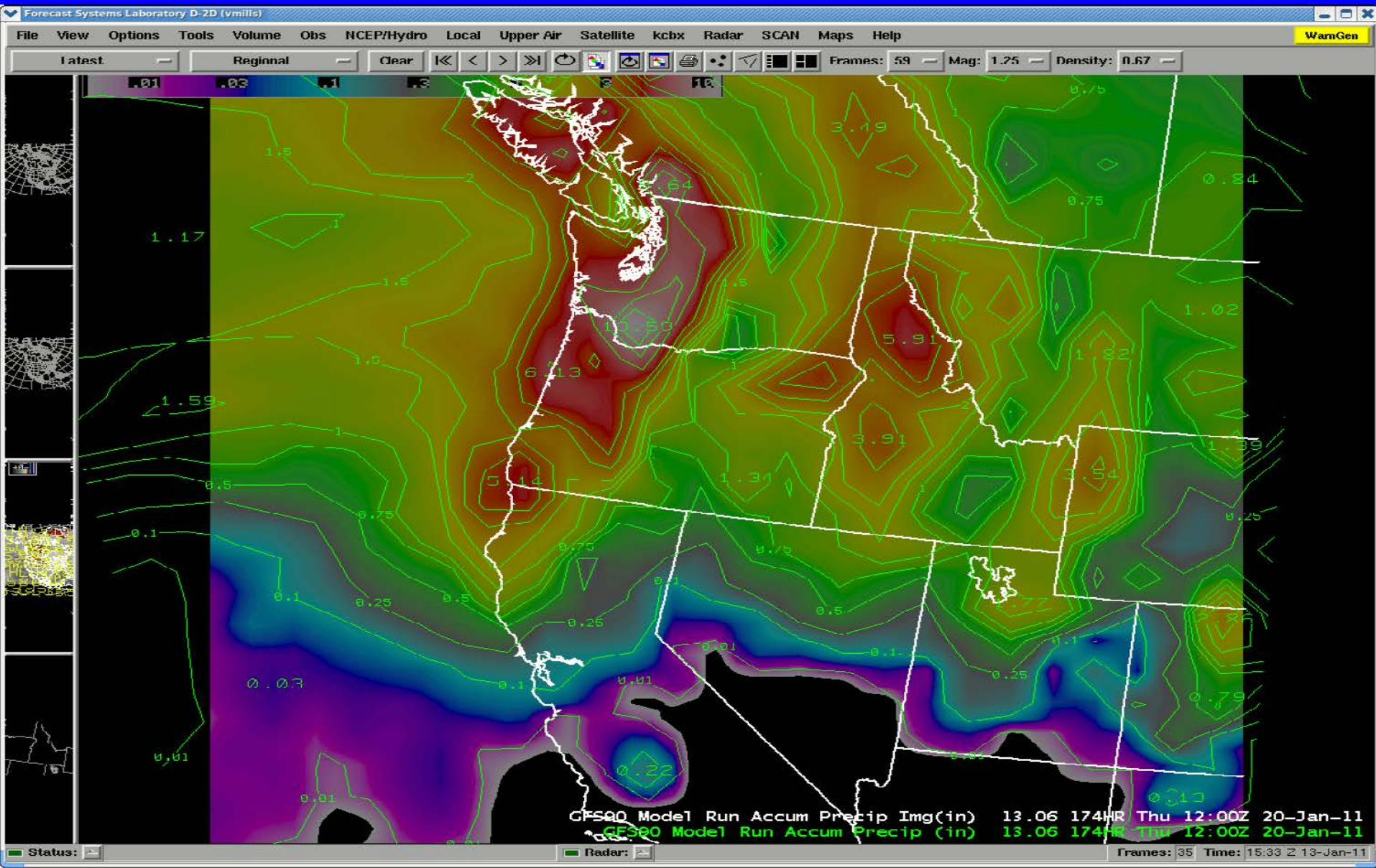


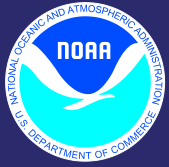
# Thursday, January 20th





# Total Precipitation Ending Saturday, Jan 23rd

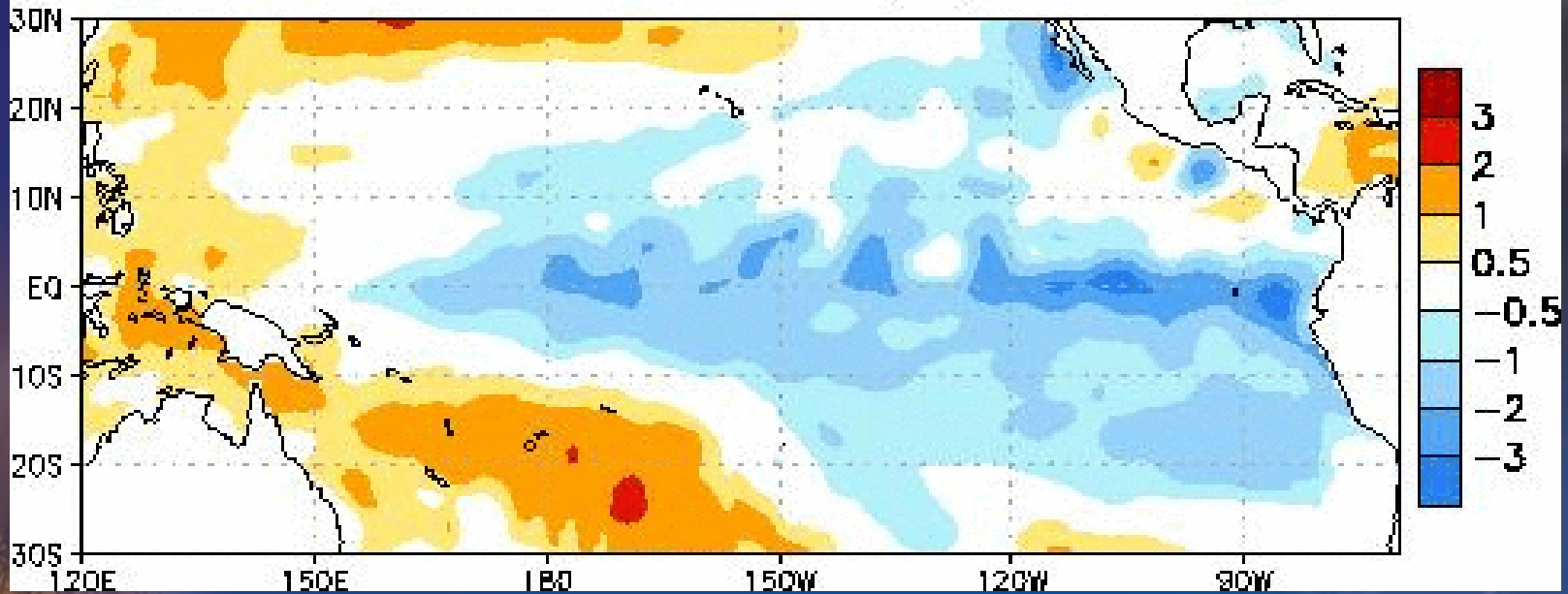




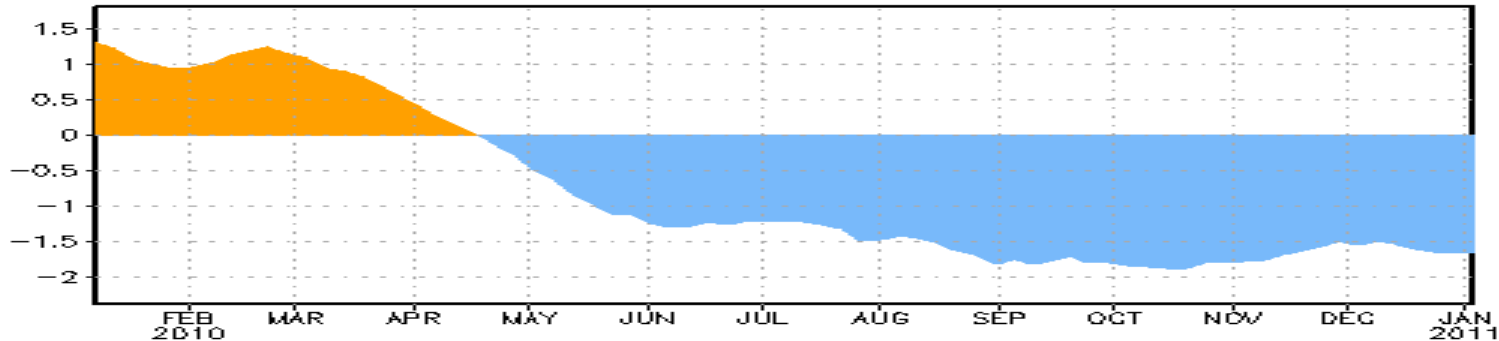
# Equatorial Sea Surface Temperature Anomalies



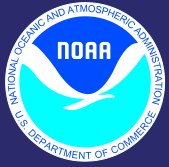
Week centered on 20 OCT 2010  
SST Anomalies (°C)



EQ. Upper-Ocean Heat Anoma. (deg C) for 180-100W



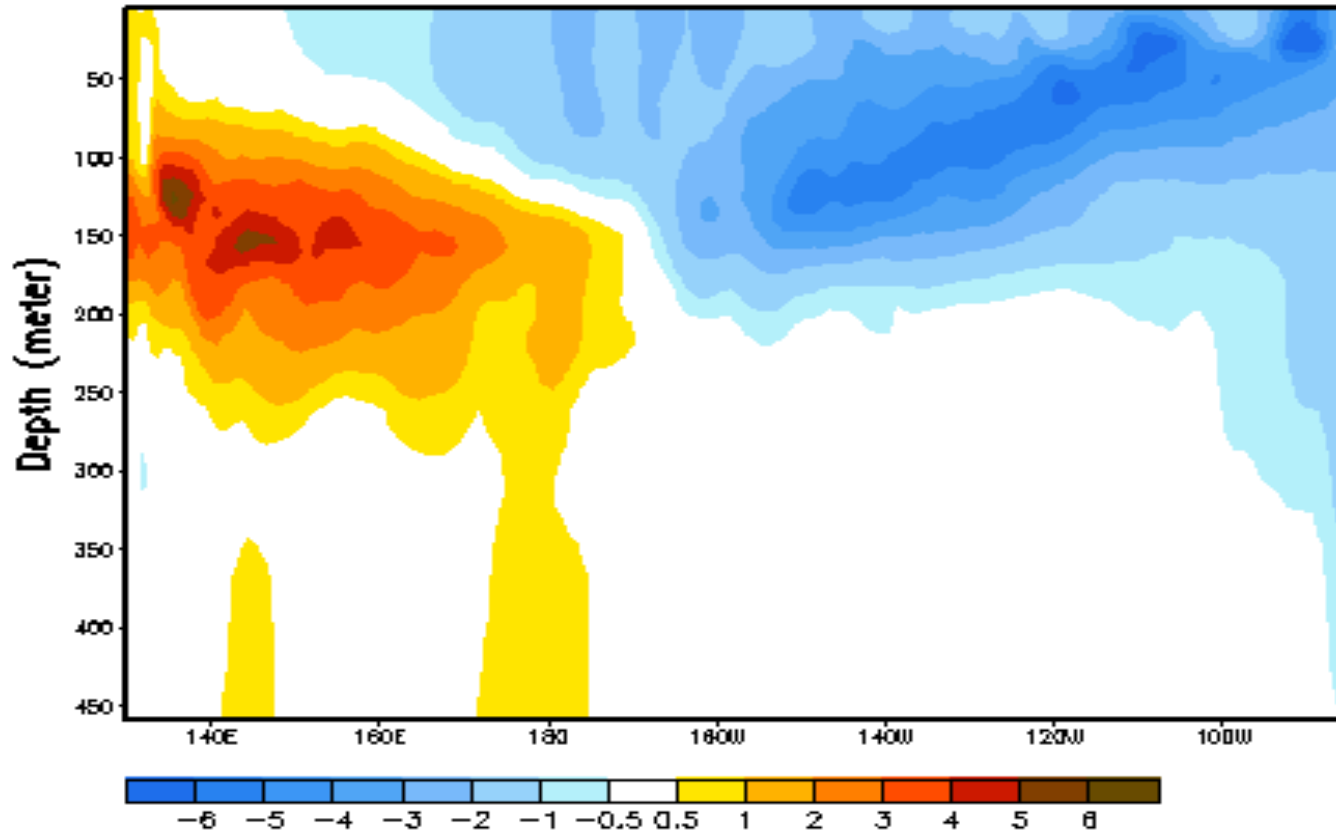




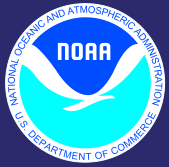
# Cold sub-surface anomaly along equator



Equatorial Temperature Anomaly ( $^{\circ}\text{C}$ )  
Pentad centered on 09 NOV 2010

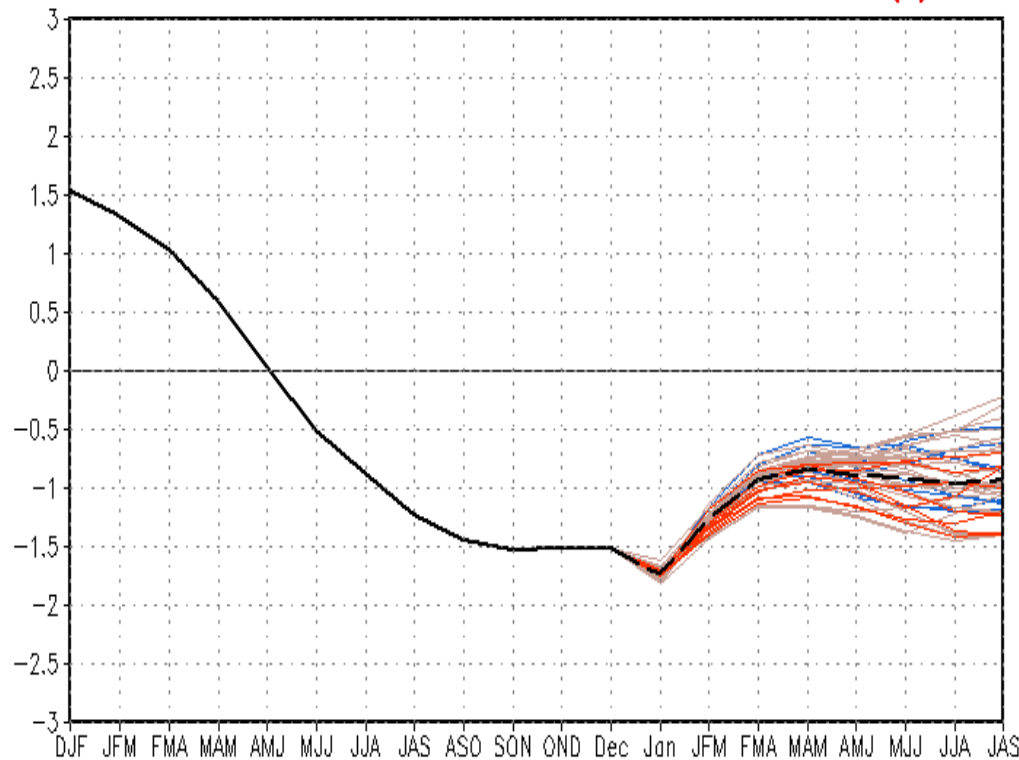


# SST Outlook: NCEP CFS Forecast Issued 9 January 2011



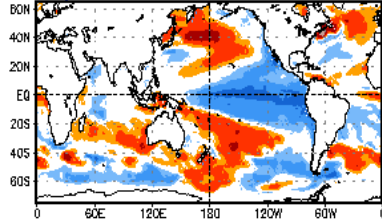
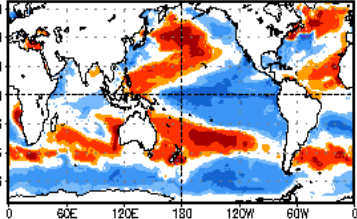
The CFS ensemble mean (black dashed line) predicts La Niña conditions through Northern Hemisphere summer 2011.

PDF corrected CFS forecast Nino3.4 SST anomalies (K)



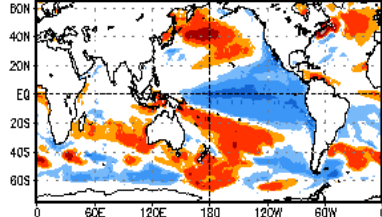
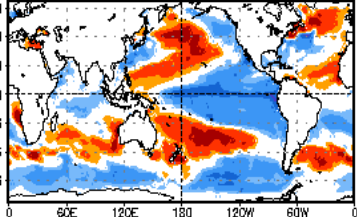
Jan-Feb-Mar 2011

May-Jun-Jul 2011



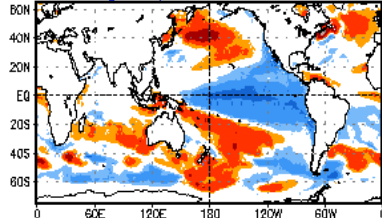
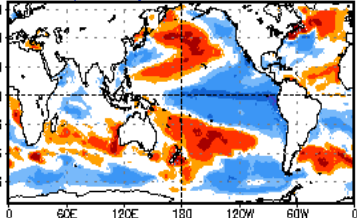
Feb-Mar-Apr 2011

Jun-Jul-Aug 2011

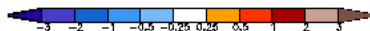
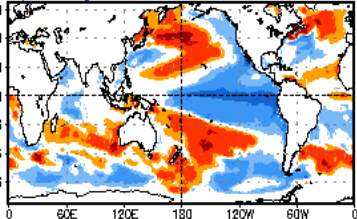


Mar-Apr-May 2011

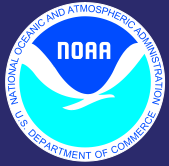
Jul-Aug-Sep 2011



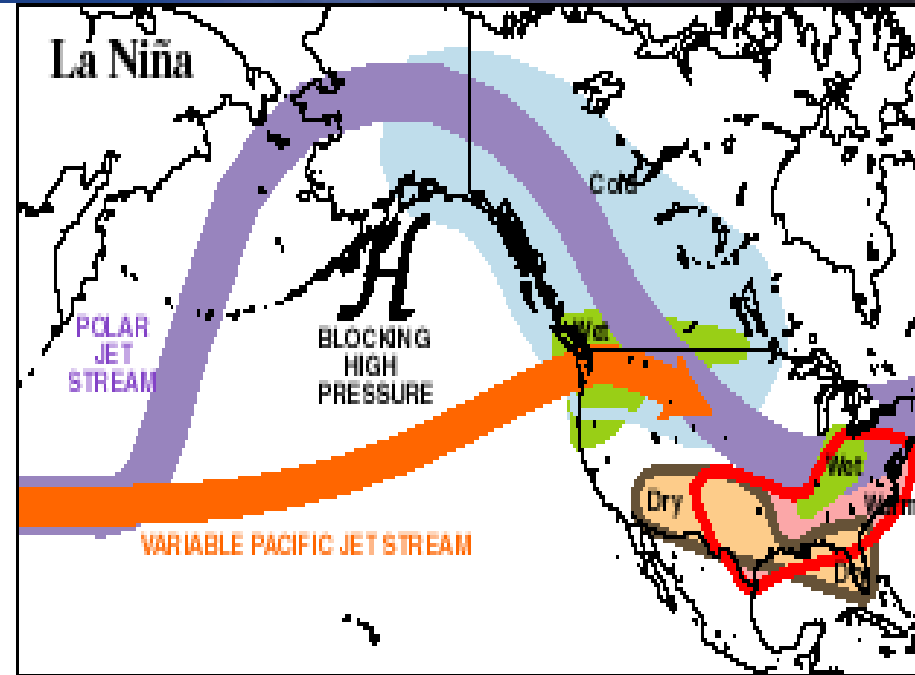
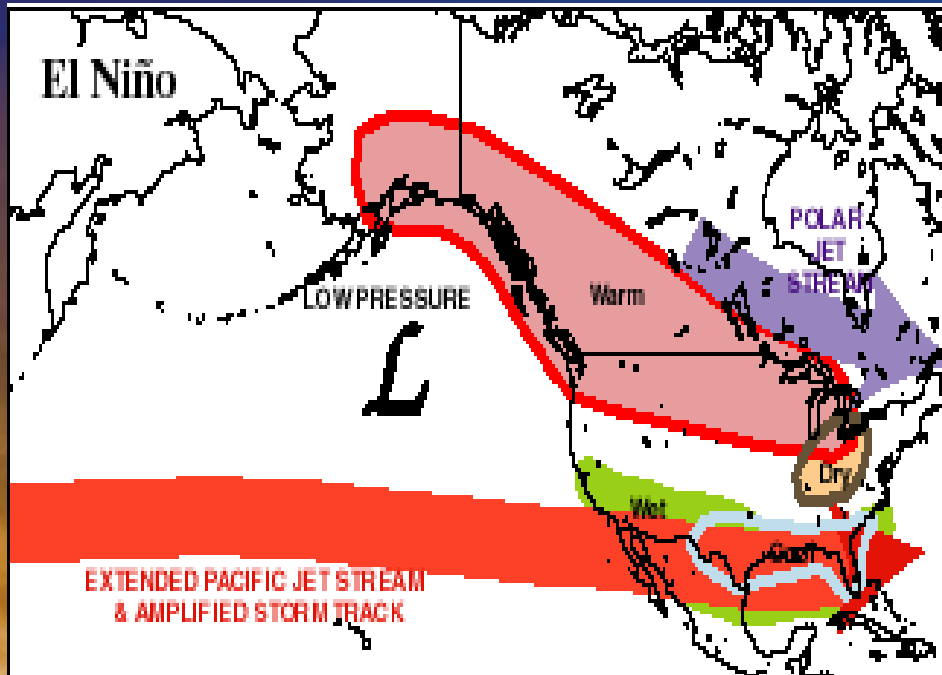
Apr-May-Jun 2011





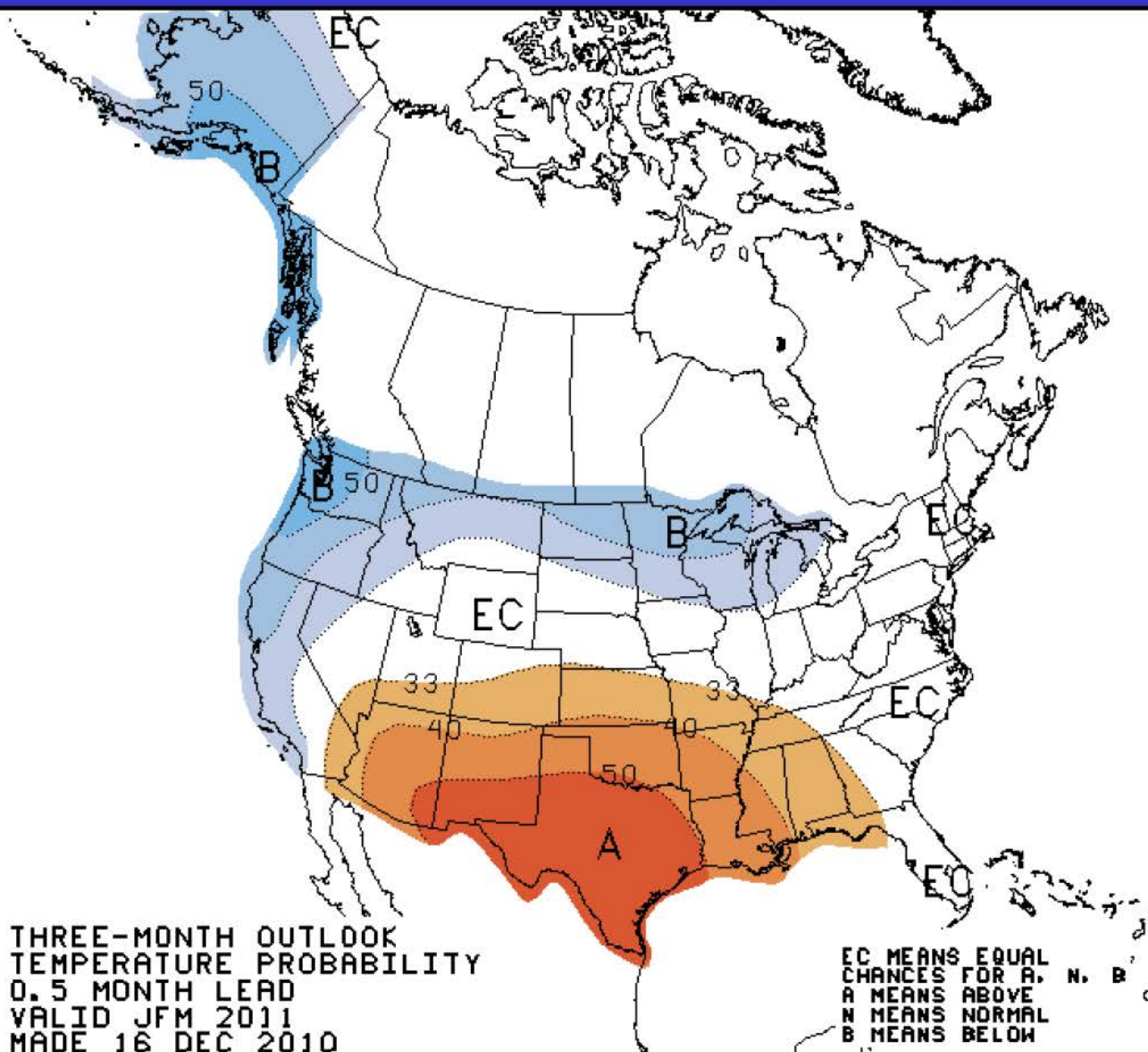


# Typical North American Winter Impacts of El-Niño



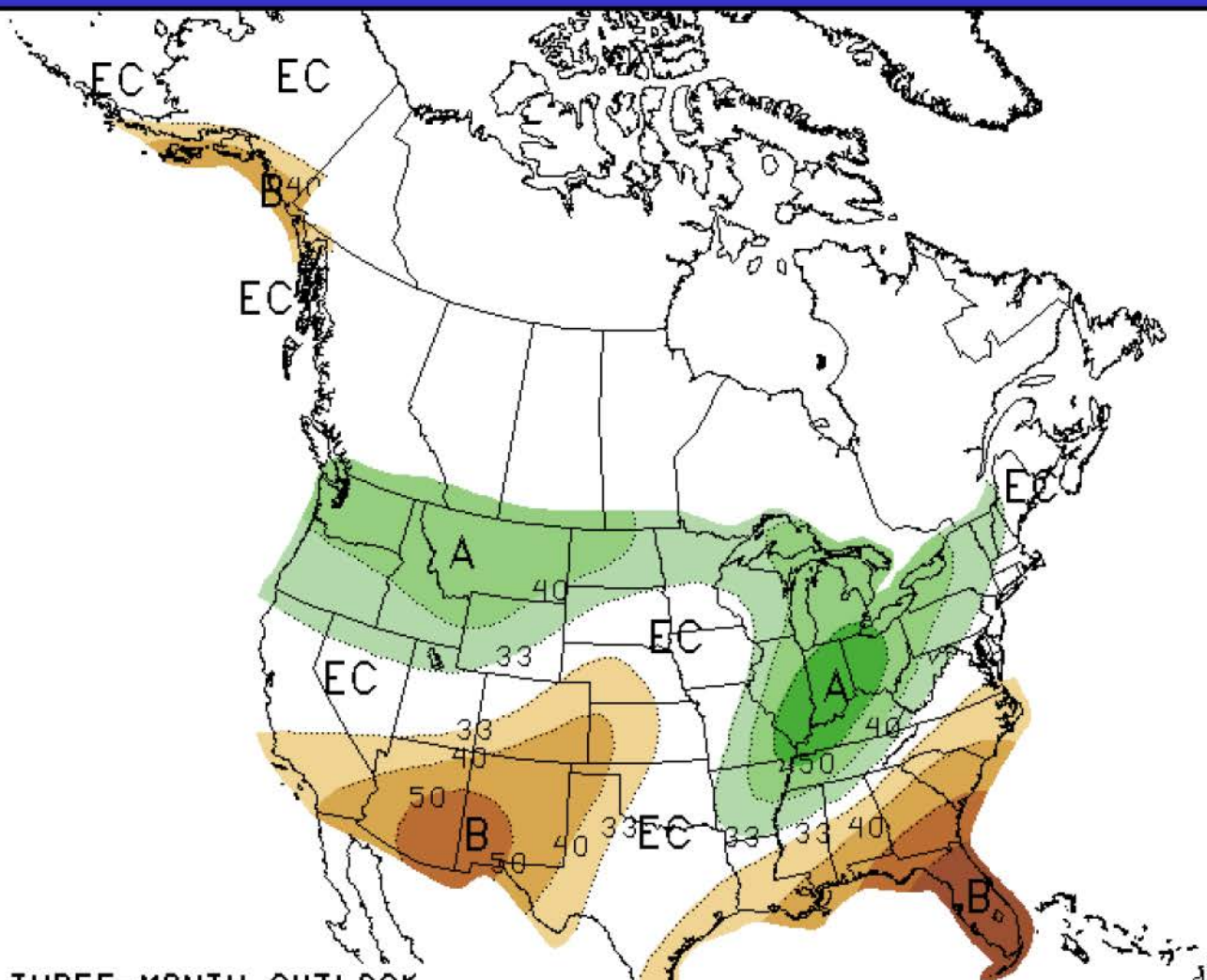


# Three Month Outlook (Jan-Mar) Temperatures





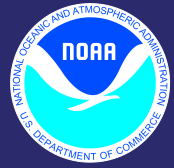
# Three Month Outlook (Jan-Mar) Precipitation



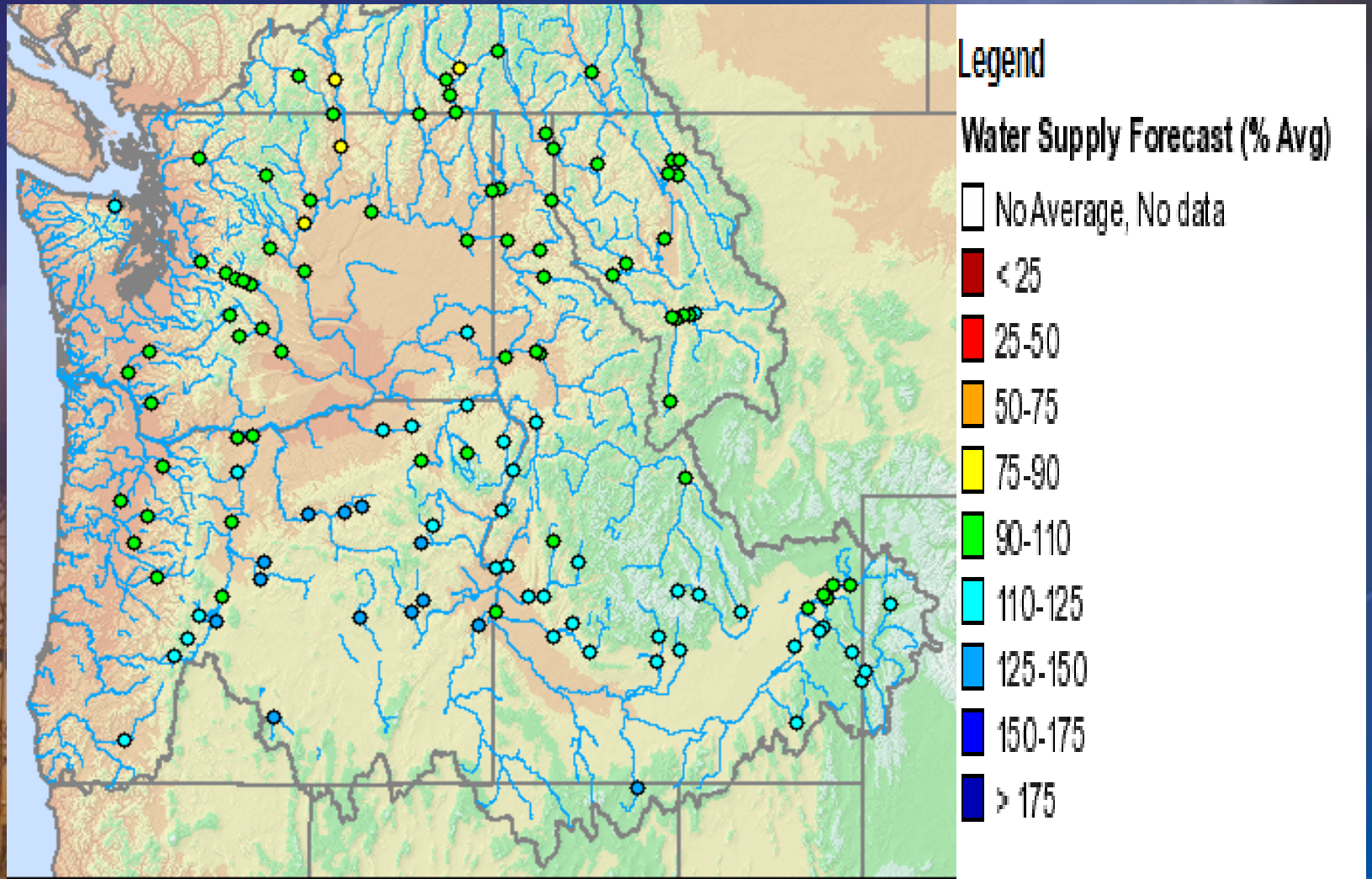
THREE-MONTH OUTLOOK  
PRECIPITATION PROBABILITY  
0.5 MONTH LEAD  
VALID JFM 2011  
MADE 16 DEC 2010

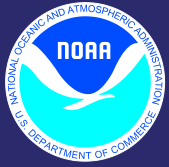
EC MEANS EQUAL  
CHANCES FOR A, N, B  
A MEANS ABOVE  
N MEANS NORMAL  
B MEANS BELOW





# Above Normal Water Supply Expected in 2011

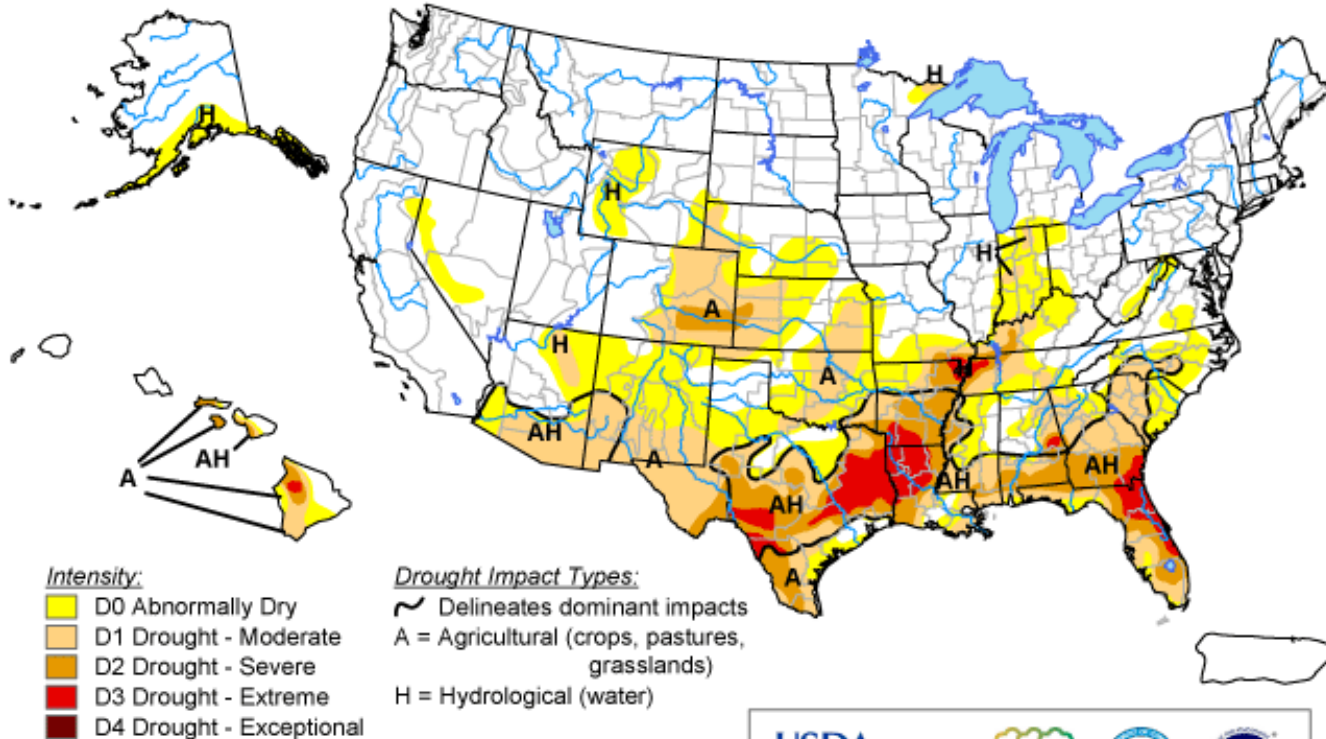




# Idaho is Drought Free!

## U.S. Drought Monitor

January 4, 2011  
Valid 7 a.m. EST



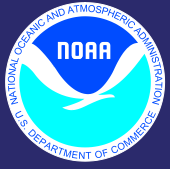
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://drought.unl.edu/dm>



Released Thursday, January 6, 2011  
Author: Anthony Artusa, NOAA/NWS/NCEP/CPC





# Current Information on Web

[www.weather.gov/boise](http://www.weather.gov/boise)

[www.nwrfc.noaa.gov](http://www.nwrfc.noaa.gov)

