

**This is a basic decoder for  
the slides of the AICC Daily  
Fire Weather Briefing.**

**If you have questions,  
please contact the  
meteorologist at  
907-356-5691.**

# Fire Weather Briefing

## Public Hazards

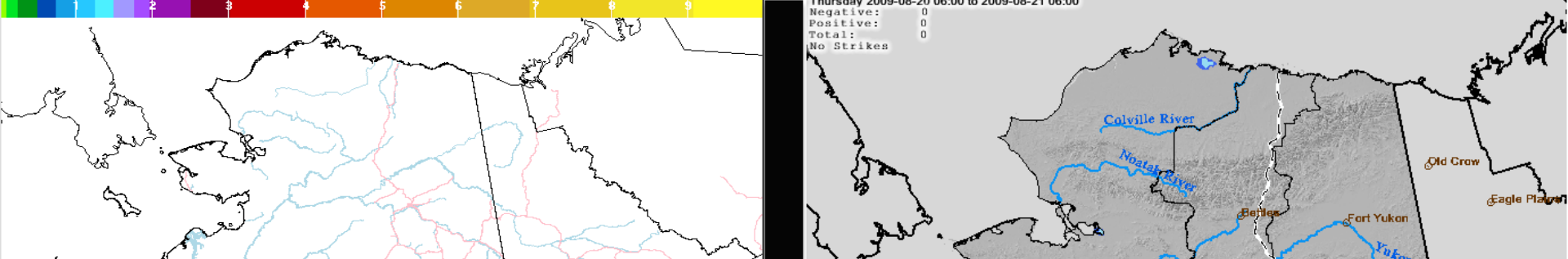
- Warning
- Watch

## Hazards

- This slide allows us to discuss:
  - Red Flag Warnings
  - Fire Weather Watches

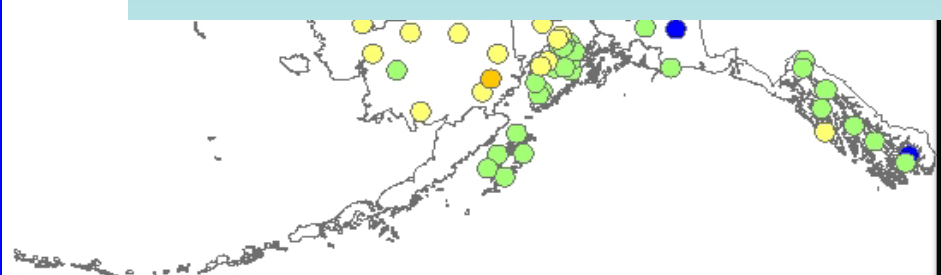
- Details can be found at:

<http://firewx.arh.noaa.gov/warnings.php>

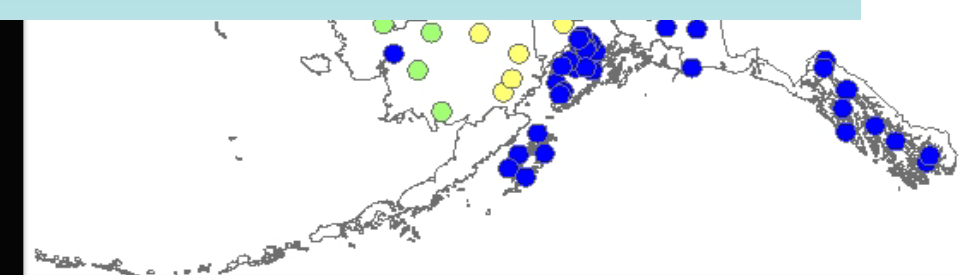


# Yesterday

- Shows yesterday's lightning along with:
  - Hottest & driest areas
  - Where precipitation occurred
- ❖ *Shows potential for areas of new fire activity*

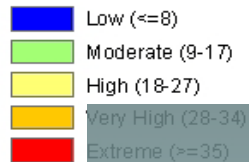


**Max Temperature**

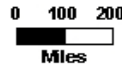


**Min RH**

**FWI**  
10-Sep-2009



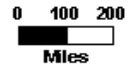
Produced by  
AICC Predictive Services



**BUI**  
10-Sep-2009



Produced by  
AICC Predictive Services



## Yesterday's Fuels

- Shows yesterday's fuel status:
  - **FWI** shows intensity of a spreading fire
  - **BUI** shows total fuel available for combustion
  - **DMC** shows weekly - monthly drought conditions
  - **DC** shows seasonal drought conditions

❖ *Indicates potential for fire ignition & growth*

**DMC**  
10-Sep



**DMC**

**DC**



1 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40  
ALASKA (58N,150W) NOAA-19 AVHRR CH. 4 01/25/10 15:14:45 4.4 X 4.4 KM

# Satellite Imagery

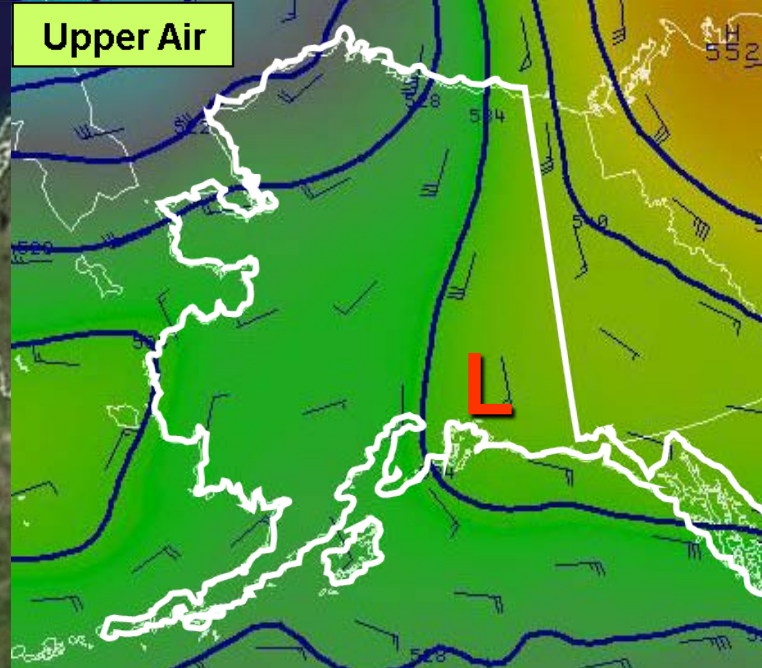
- Shows cloud cover across Alaska, including:
  - High clouds are bright white
  - Low clouds are dark gray
  - Clear areas are dark where terrain features show through (like mountains, lakes)
  - Fronts are usually long, full cloud bands
  - TSTMS look like bright white pieces of popcorn
  - To see cloud movement, view a satellite loop at:  
<http://pafg.arh.noaa.gov/satloop.php?sat=goes&sector=4gvf>



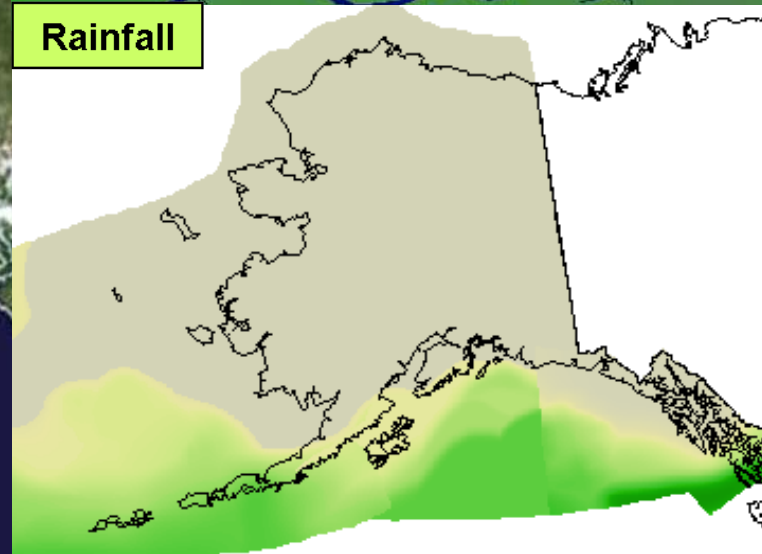
# Today




- These next four slides are an in-depth look at weather for the next 3 days: today, tonight, tomorrow, & the next day

Upper Air








Rainfall



-  Lightning with  $\geq 1/10$  inch rain
-  Mixed wet/dry lightning
-  Dry lightning

## Legend

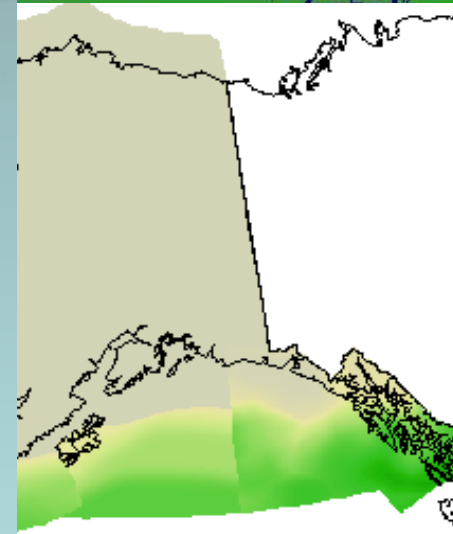
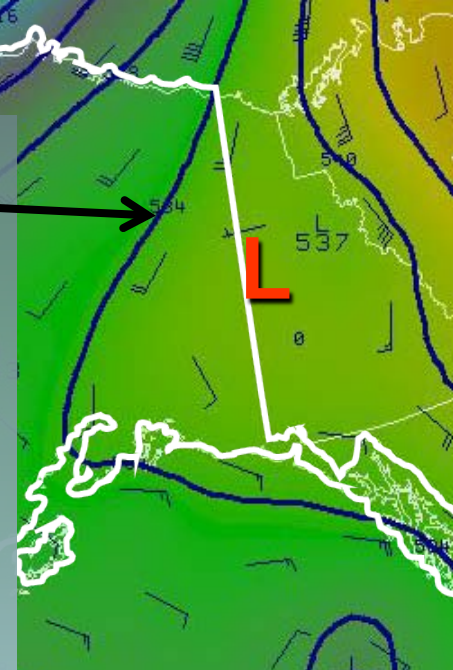
-  Rain showers
-  Steady rain

-  Hot and dry
-  Significant fire activity
-  Significant fire potential

# Tonight

Upper Air

Upper Air



- 500 mb shows the *forecasted* flow aloft
  - *Pattern recognition aloft* can identify potential fire weather at the surface
  - Numbers indicate heights in decameters, just remember:
    - Higher heights = warmer air
    - Lower heights = colder air
    - Stability is usually implied with Highs
    - Precip/wind usually comes with Lows

Rainfall

❖ **Why 500 mb?** This is the height that drives surface weather. Surface patterns can be confused by terrain. Upper air indicates flow direction more clearly; thus, moisture & temperature changes are more evident.

fire activity  
fire potential



PREDICTIVE SERVICES

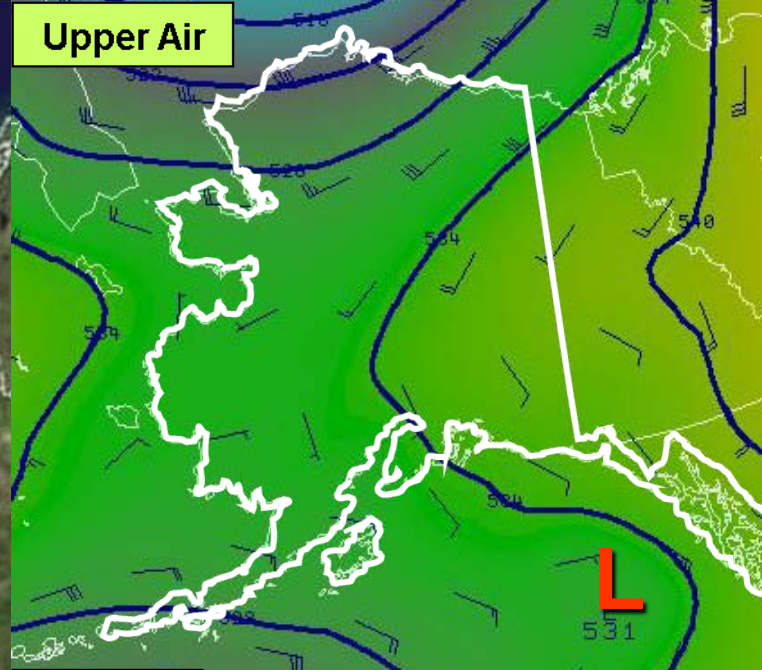


# Tomorrow

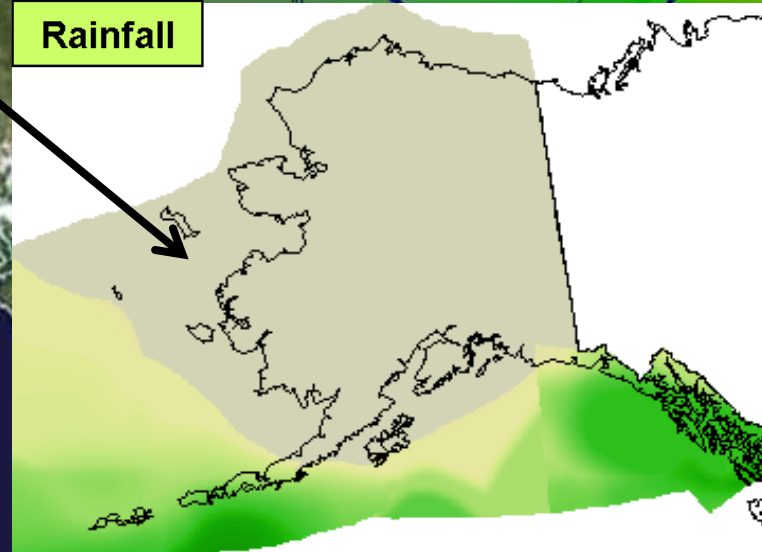
## Rainfall




- This is *forecasted* precipitation expected for a 12 hour period

Upper Air








Rainfall



-  Lightning with  $\geq 1/10$  inch rain
-  Mixed wet/dry lightning
-  Dry lightning

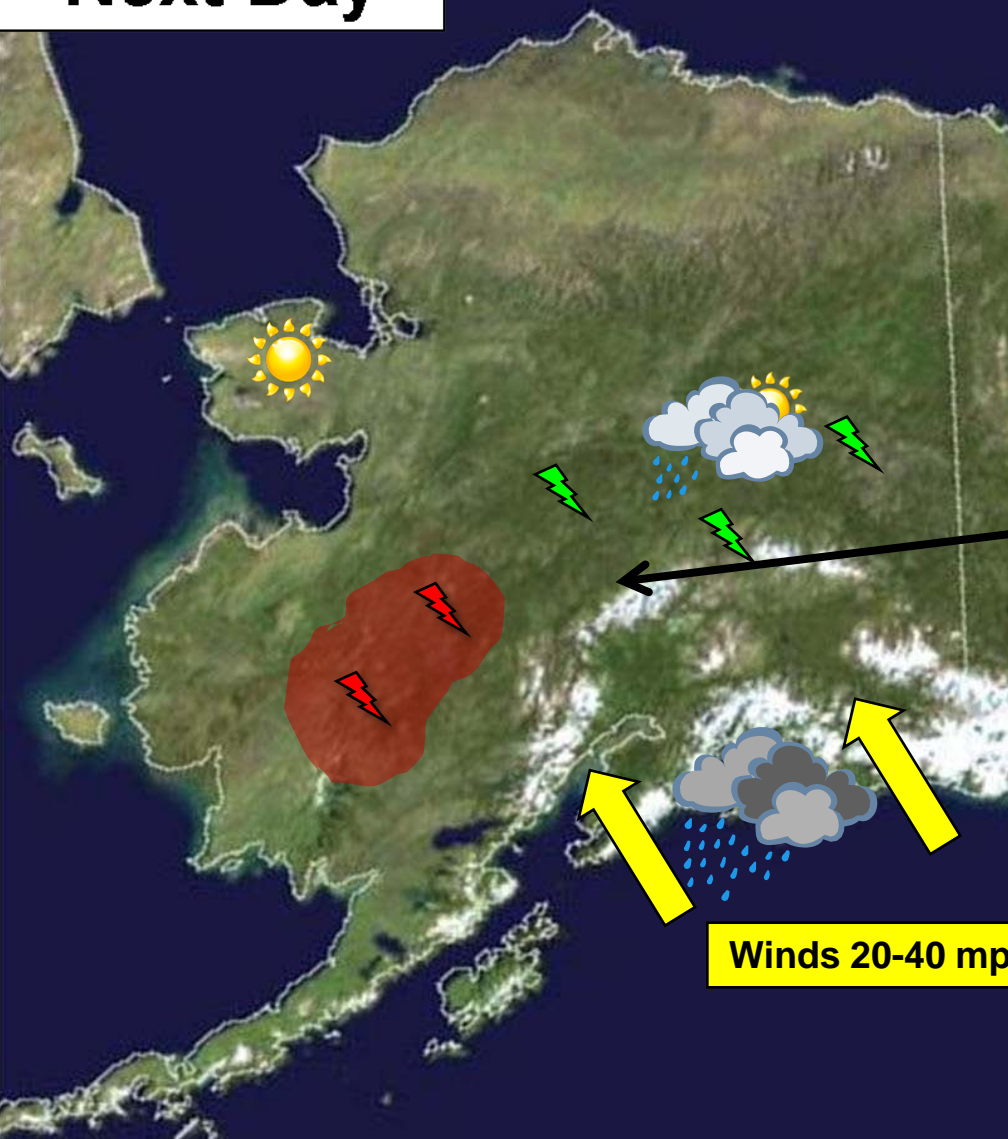
## Legend

-  Rain showers
-  Steady rain

-  Hot and dry
-  Significant fire activity
-  Significant fire potential



# Next Day



## Surface

• This shows *forecasted* surface weather: strong winds, lightning, rain, hot and dry, and areas of significant fire potential

Winds 20-40 mph

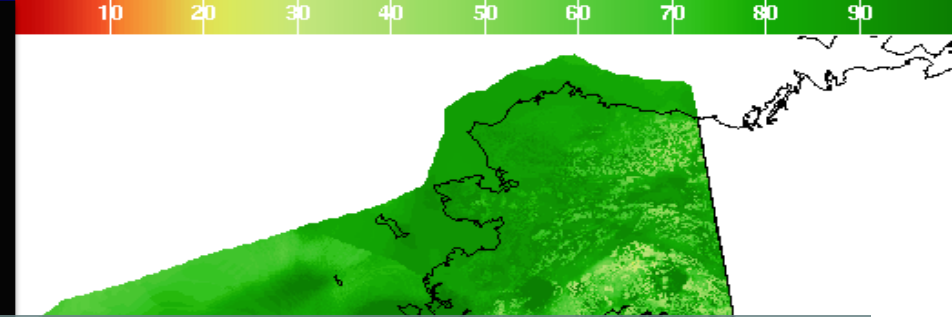
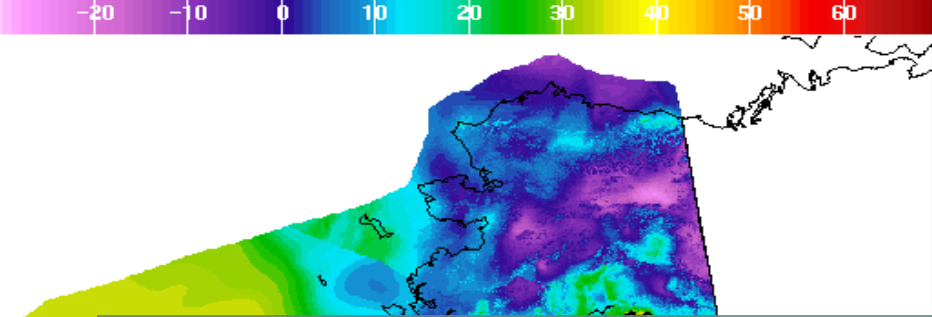
- Lightning with  $\geq 1/10$  inch rain
- Mixed wet/dry lightning
- Dry lightning

### Legend

- Rain showers
- Steady rain

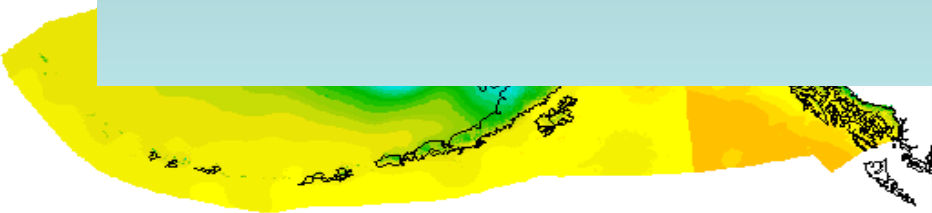
- Hot and dry
- Significant fire activity
- Significant fire potential





## Today & Tomorrow

- Shows *forecasted* high temperatures and dry areas for these two days
- Indicates which areas may have an increase or decrease in fire potential



High Temperature(F) Ending Tue Jan 26 2010 3PM AST  
Experimental (Wed Jan 27 2010 00Z)  
National Digital Forecast Database  
15z issuance Graphic created-Jan 25 6:29AM AST



Relative Humidity(%) For Tue Jan 26 2010 6PM AST  
Experimental (Wed Jan 27 2010 03Z)  
National Digital Forecast Database  
15z issuance Graphic created-Jan 25 6:30AM AST



**Max Temp Tomorrow**

**Min RH Tomorrow**





## 500 mb Medium Range Forecast

- This shows upper level trends that are forecasted for the 4-7 day period.
- The 500 mb height indicates general pattern changes best
- **Remember!** Forecast event timing & severity varies more on longer range products

Monday

Tuesday

# Summary

- **Short-term Cor Summary Slide**

- Temps into upper 80s today

- **In case you missed the rest of the briefing, here are the short & long term concerns**

- RHs into low teens

the weekend?

- Ridging builds in for more warm weather next week