

## JULY 2015 USA & S Canada

### A wild month! Extreme contrasts across USA and major rapid changes through the month.

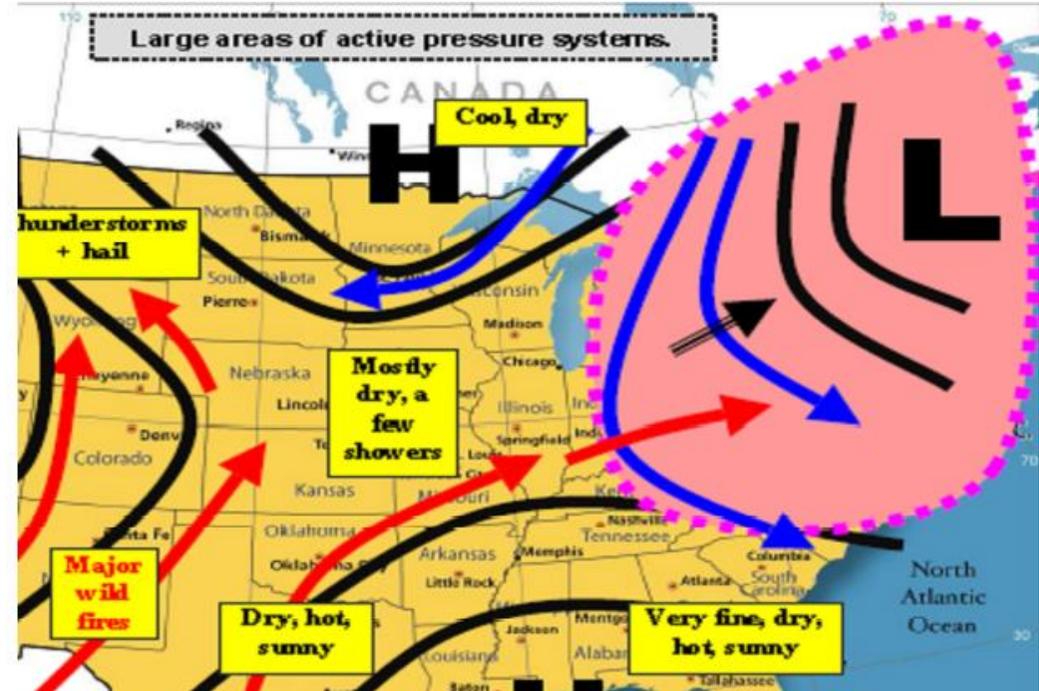
- Great Lakes, MidWest & N/E: Frequent wild stormy spells with major hail damage, thunder and tornadoes.
- S+SE inc Florida mostly dry hot sunny.
- S/SW Dry searing heat, extensive **wildfires**.
- South California often wet with thunder, hail, floods & some tornadoes.

#### Main Storm spells (Major red, R4 periods) :-

30Jun-1Jul\* (\*see p3), 6-8<sup>th</sup>, 14-15<sup>th</sup>, 20-22<sup>nd</sup>, 27-28<sup>th</sup>

- The wild extremes are consequences of the Wild Jet Stream / 'Mini Ice Age (ie on average colder) climate decades the USA and world has entered – with Jet Stream North hemisphere generally South of normal or split with a strong far South branch, long stretches, meanders & blocks.
- The changes in circulation giving these often extreme weather patterns are driven by changes in the Solar-Lunar factors which govern the behaviour of the Jet stream and are predictable by WeatherAction's revolutionary Solar-Lunar-Action-Technique (SLAT12a) months ahead and nothing to do with CO2 changes under 'CO2-Climate Change' 'theory'. Standard Meteorology will run into serious problems this month in SLAT main Red (R4 & R5) periods during which short range standard forecasts of precipitation will need to be ~doubled and strong wind / tornado / thunder / hail risk enhanced.

## MidWest storm-spell 22-25 Jun "spot-on" forecast from over 3 weeks ahead



JUNE 22-25 **Solar Factors: NSF 22<sup>nd</sup>; R4 23-25<sup>th</sup>**

**Large areas of active pressure systems. North Centre + West Great Lakes high pressure. Centre + East Great Lakes + NE heavy showers, thunderstorms, hail, tornadoes, local floods.**

Gulf area & Florida dry, very fine, hot + sunny. SWUSA dry, hot, sunny & **WILD FIRES**. California + most of (West) Rockies heavy showers, hail and some tornadoes. NW Pacific coast heavy thundery showers, large hail, thunderstorms, cool. North of West thunderstorms + hot/very warm.

*Bob Weber on WeatherAction June:- "Piers' June forecast was exceptionally accurate with good timing for New Mexico with "dust storms" and a major increase in wildfires:-*

*R5 9-11th for us delivered rains, some hail, on time. Derecho & tornadoes in Midwest occurred with major solar wind hit, solar flare, high hemispheric power, protons, electrons up, caused high Kp on 23rd during R4 forecast - ie classic "electric weather". "Heatwave continues" KS/NB per forecast for 29/30th spot on as its mid-90's right now 9pm EDT - although it's hotter than blazes still in OR contrary to forecasted cool there.*

*May solar flux averaged 120.1 sfu (sfu=10^-22 W/m2/Hz), June ave was 123.1. USAF @ 116 sfu for July... F10.7 solar radio bursts Jun18 @ 568 sfu! and Jun22 @ 247 sfu from lone big sunspot.*



# USA Key Developments & Extremes Forecast JULY 2015

P2. KEY WEATHER PERIODS. Available directly on line via <http://www.weatheraction.com/wactmember.asp> prod 30 June from SLAT12b (USA)

## JULY 2015 – Key Weather Developments in 8 weather periods

**NOTE: Timings are uncertain in these Wild-Jet-Stream / Mini-Ice-Age times – around +/-2days**

**JULY 1-5 Solar Factors: NSF, 1-2, R3 3-5** Mobile low pressure in East/Midwest/Great Lakes moving NE. High pressure Florida; Low Mexico and towards West Coast. Prob high off Vancouver, low to North of West. Large high Centre-North centre. **Great Lakes N/E + Centre East large area of increasingly unsettled weather. Thunderstorms, hail, local floods later. Some tornadoes.** Florida dry warm sunny. Gulf states very humid, thunder later. Texas dust storms later. SW wild fire risk high, very hot blast. S California thunderstorms. NW coast cool + some showers possible. North of West thunderstorms + tornadoes later. Centre + North Centre dry, sunny, hot - Great weather.

**JULY 6-8 Solar Factors: R4, 6-8<sup>th</sup>** High pressure North Centre USA + S Canada. Deep large area of active low pressure Great Lakes, Midwest, N/E parts. High pressure East coast and Florida. Low Mexico, low S California. High off Vancouver. **Major thunderstorms, floods, giant hail and strong winds with tornadoes over large area Great Lakes, Midwest + N/E USA.** East centre + East coast + Florida dry, hot, sunny with high cloud. Texas + OK + AR very hot, major dust storms. Thunder, hail + tornadoes. SW serious wildfire risk – extreme danger. S California thunderstorms, hail + local floods. West coast + most of Rockies thundery + very warm. Vancouver + far NW dry + sunny. North of West thundery showers. North of Centre USA + S Canada mostly sunny, high cloud, cold nights.

**JULY 9-13 Solar Factors: NSF 9-10<sup>th</sup>; R2 11-13<sup>th</sup>** Low pressure far NW. Large high pressure S/E quarter of USA centered over Florida/SE. Humid low South California. High far NW, low North of West. **NE USA thundery showers + hail, some floods but not prolonged rain.** S/E quarter + Florida brilliant sunshine, blue skies, dry, very hot. Texas + OK extreme heat, major forest fires, dust storms (to west). S California very humid, thunder + hail + tornadoes. NW dry, mostly sunny, cool nights. North of Centre/N Rockies thundery showers + hail, mostly cloudy.

**JULY 14-16 Solar Factors: R4 14-15; NSF 16<sup>th</sup>** Great Lakes, Midwest, N/E sector of USA large area of active low pressure. S/E quadrant high. West Gulf low pressure. SW USA/S California active low. North of West high pressure. **Major thunderstorms, tornadoes, floods, giant hail over large area Midwest, Great Lakes + N/E.** S/E very hot, mostly dry with isolated thunder, sunny. West Gulf major thunderstorms + tornadoes. **SW USA very extreme heat strong, parching south wind from Mexico. Raging forest fires.** S California major thunder, floods, hail + tornadoes. (N) West Coast thundery showers. Far NW dry + warm. North of West/Centre dry, mostly sunny + cold nights.

**JULY 17-22 Solar Factors: R3 17-19; R4 20-22** Mobile active low pressure cross North parts West to East. S/E quarter high pressure. Lows Mexico and S California. Low Pacific NW. **Large area North Central USA, Great Lakes, Midwest and NE very unsettled esp 20-22<sup>nd</sup> with major thunderstorms, floods, tornadoes and large hail.** S/E + Florida dry, sunny, hot; high cloud later. SW USA major wildfires, scary heat in strong winds 20-22<sup>nd</sup>, dust storms. S California major thunderstorms + floods + hail + tornadoes (esp 20-22<sup>nd</sup>). West coast some showers. Pacific NW heavy thundery showers + hail. North of West mostly dry; variable sky.

**JULY 23-25 Solar Factors: NSF 23-25** A quieter, slacker situation with large pressure areas. Mobile moderate lows cross North parts West to East. S/E quieter including all Gulf high pressure. Mexico mostly low pressure. South California low pressure. N/W Pacific high. **Large area from Centre West to NE inc Great Lakes + Midwest heavy thundery showers; hot then cooler.** Central East + S/E quarter major heatwave, sunny, dry. Texas, New Mexico, Arizona extreme searing dry heat, light winds, dust devils/storms. South California heavy thundery showers, hail, variable sky. Pacific NW dry, cool + bright. North Rockies showery + cool.

**JULY 26-28 Solar Factors: NSF 26<sup>th</sup>; R4 27-28<sup>th</sup>** Large trough of very active low pressure from Centre to NE USA. East coast + S/E quarter high pressure (including Gulf). Mexico low. South California, West Mexico lower pressure. West coast high. North Rockies low. North Centre USA high pressure moving East. **Extremely active thunderstorms with tornadoes and strong local winds + giant hail in long region Centre USA-Midwest and most of Great Lakes to NE.** Region SE of line from West Gulf to New York:- dry, sunny + hot with high cloud. TX, NM extreme heat, winds + many wild fires. South California thunder, tornadoes + hail; very windy. West coast dry + mostly sunny. North of Rockies cool + showery. North Centre USA dry + bright, cold nights.

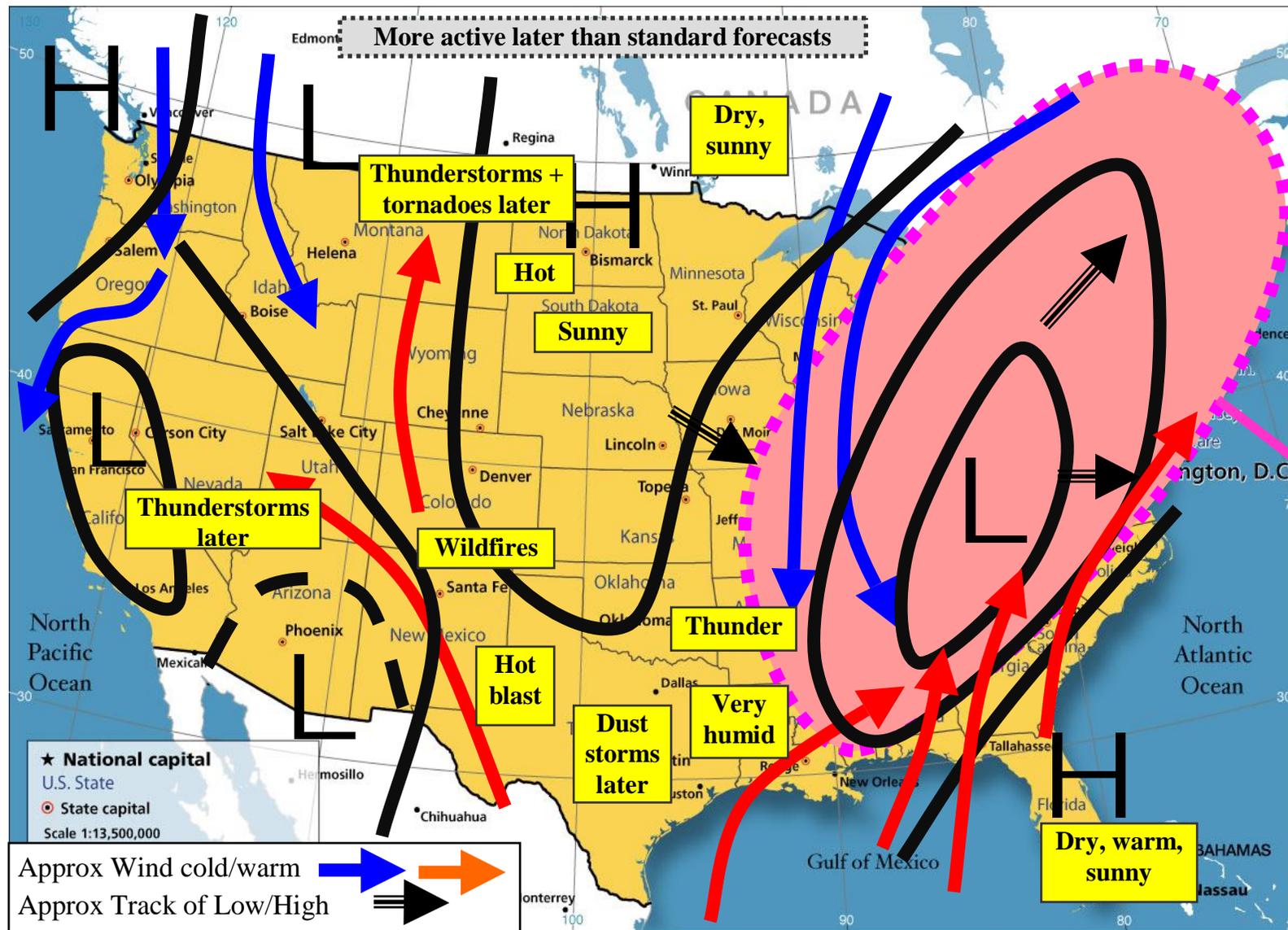
**JULY 29-31 Solar Factors: NSF 29<sup>th</sup>; R2 30-31** Quieter than previous. Low pressure (mobile West → East) Canada/N/E USA probably a trough south of Midwest. High S/E quarter USA. Low pressure most of S/W quarter. High off Vancouver. High North Rockies. Great Lakes showery + cool at times. Midwest variable, largely dry. Central east parts a band of thundery showers + hail likely. S/E quarter of USA inc Florida dry, hot + sunny. S/W quarter wildfires, very warm/hot + thundery showers. NW/N Rockies cool + some showers. North Centre mostly dry, bright + cool.

MAPS of Weather periods p 3 onwards

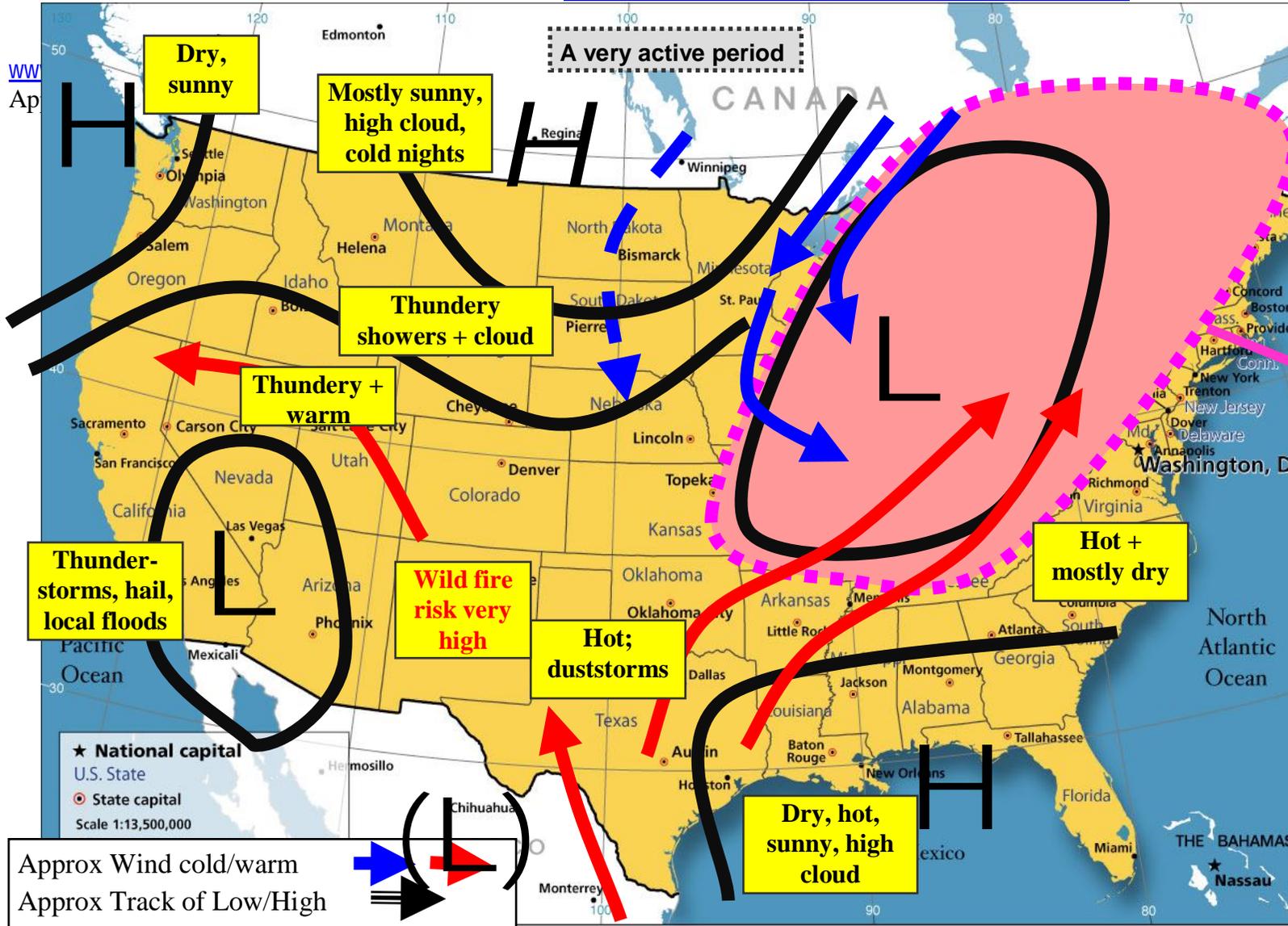
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**JULY 1-5 Forecast** Confidence AB = 80%. **Timing normally to 2 days; positions approximate.**



## JULY 6-8 Forecast Confidence A = 85%. **Timing normally to 2 days; positions approximate.**



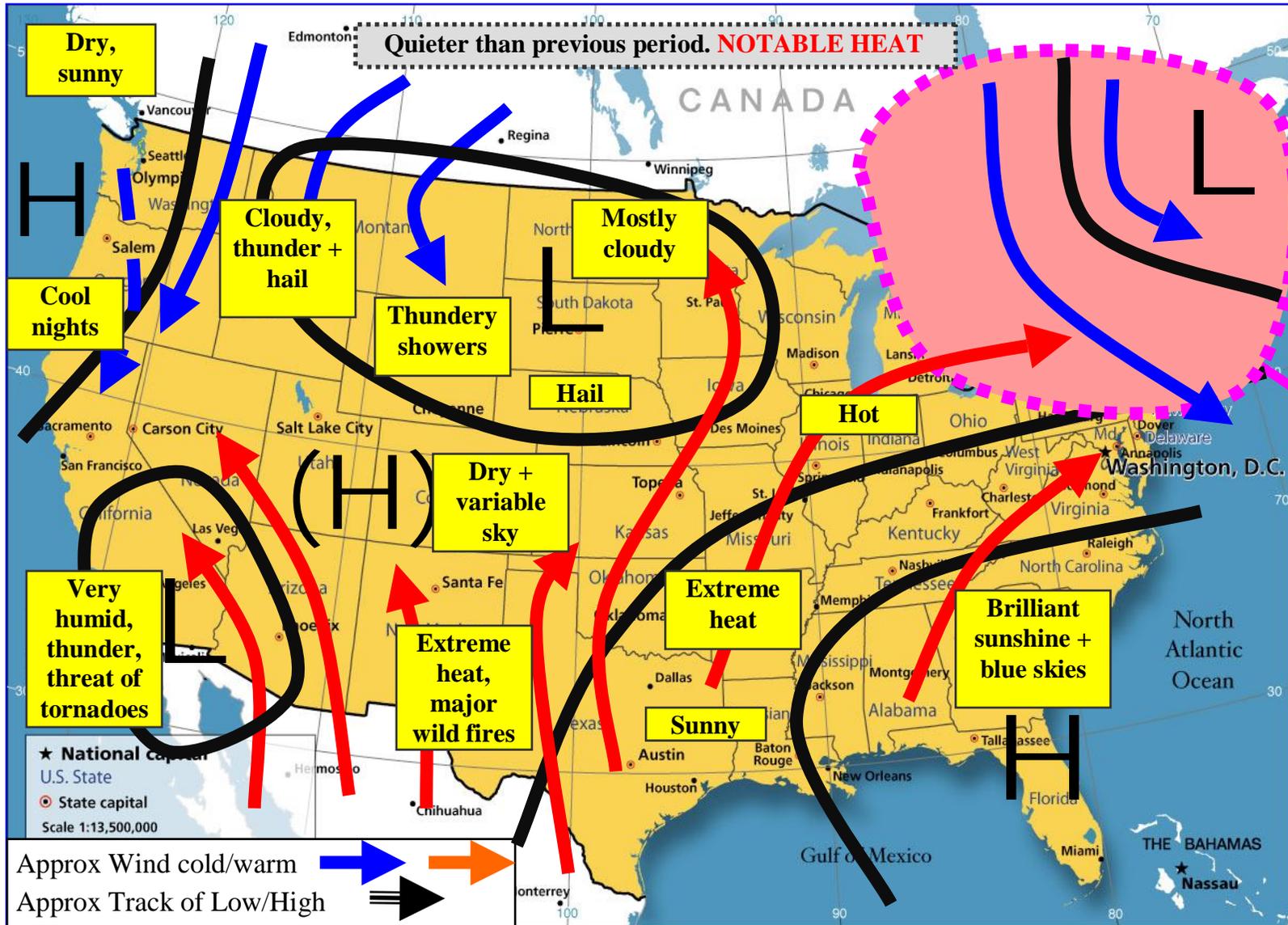
**Key Weather Development JULY 6-8**

**Solar Factors:**  
**R4, 6-8<sup>th</sup>**  
 High pressure North Centre USA + S Canada.  
 Deep large area of active low pressure Great Lakes, Midwest, N/E parts.  
 High pressure East coast and Florida.  
 Low Mexico, low S California.  
 High off Vancouver.

**Major thunderstorms, floods, giant hail and strong winds with tornadoes over large area Great Lakes, Midwest + N/E USA.**

East centre + East coast + Florida dry, hot, sunny with high cloud.  
 Texas + OK + AR very hot, major dust storms. Thunder, hail + tornadoes.  
**SW serious wildfire risk – extreme danger.**  
 S California thunderstorms, hail + local floods.  
 West coast + most of Rockies thundery + very warm.  
 Vancouver + far NW dry + sunny.  
 North of West thundery showers.  
 North of Centre USA + S Canada mostly sunny, high cloud, cold nights.

## JULY 9-13 Forecast Confidence C = 65%. Timing normally to 2 days; positions approximate.



Quieter than previous period. **NOTABLE HEAT**

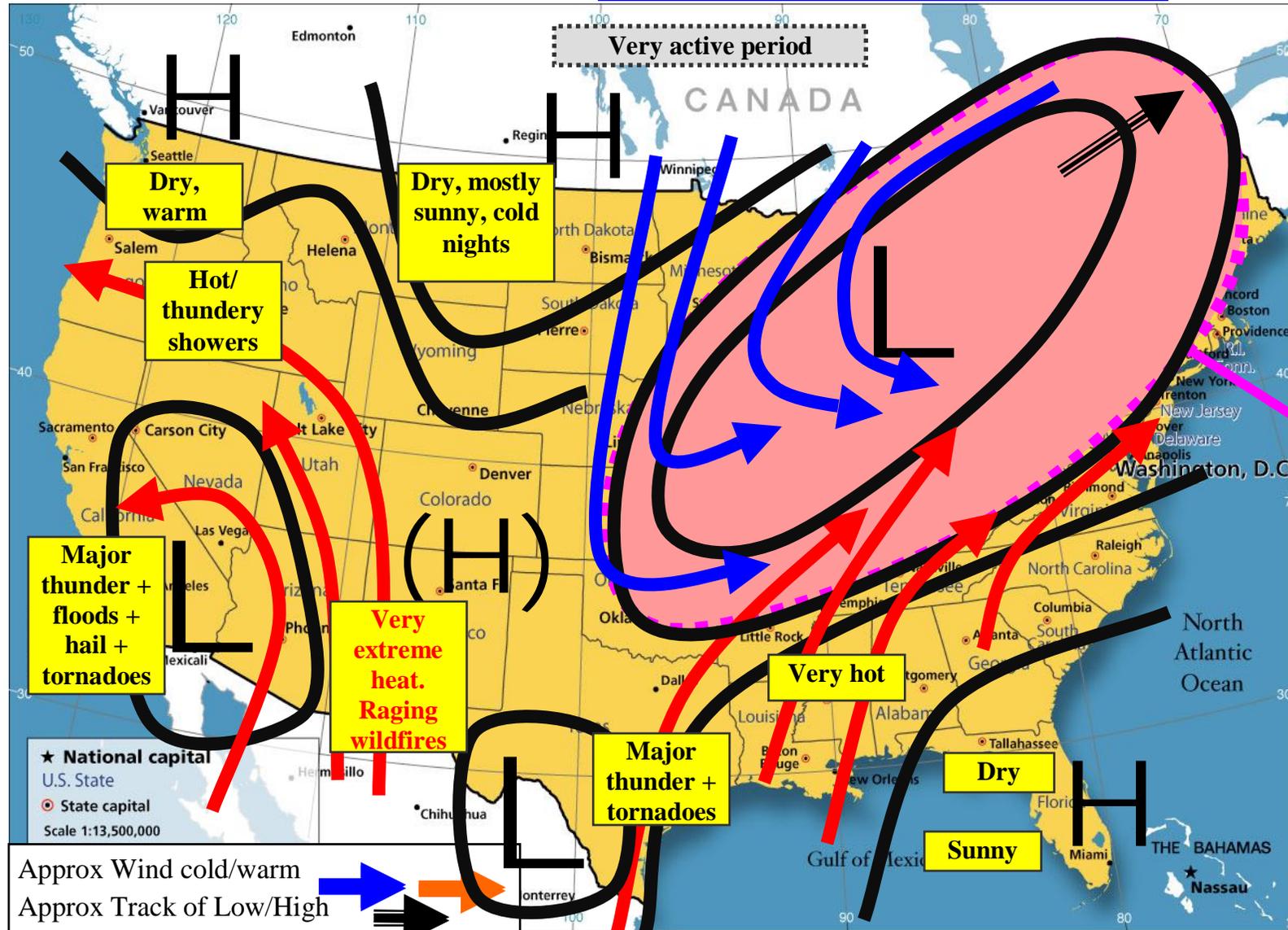
**Key Weather Development JULY 9-13**

**Solar Factors:**  
**NSF 9-10<sup>th</sup>; R2 11-13<sup>th</sup>**  
 Low pressure far NW.  
 Large high pressure S/E quarter of USA centered over Florida/SE.  
 Humid low South California.  
 High far NW, Low North of West.

**NE USA thundery showers + hail, some floods but not prolonged rain.**

S/E quarter + Florida brilliant sunshine, blue skies, dry, very hot.  
 Texas + OK extreme heat, major forest fires, dust storms (to west).  
 S California very humid, thunder + hail + tornadoes.  
 NW dry, mostly sunny, cool nights.  
 North of Centre/N Rockies thundery showers + hail, mostly cloudy.

## JULY 14-16 Forecast Confidence B = 75%. **Timing normally to 2 days; positions approximate.**



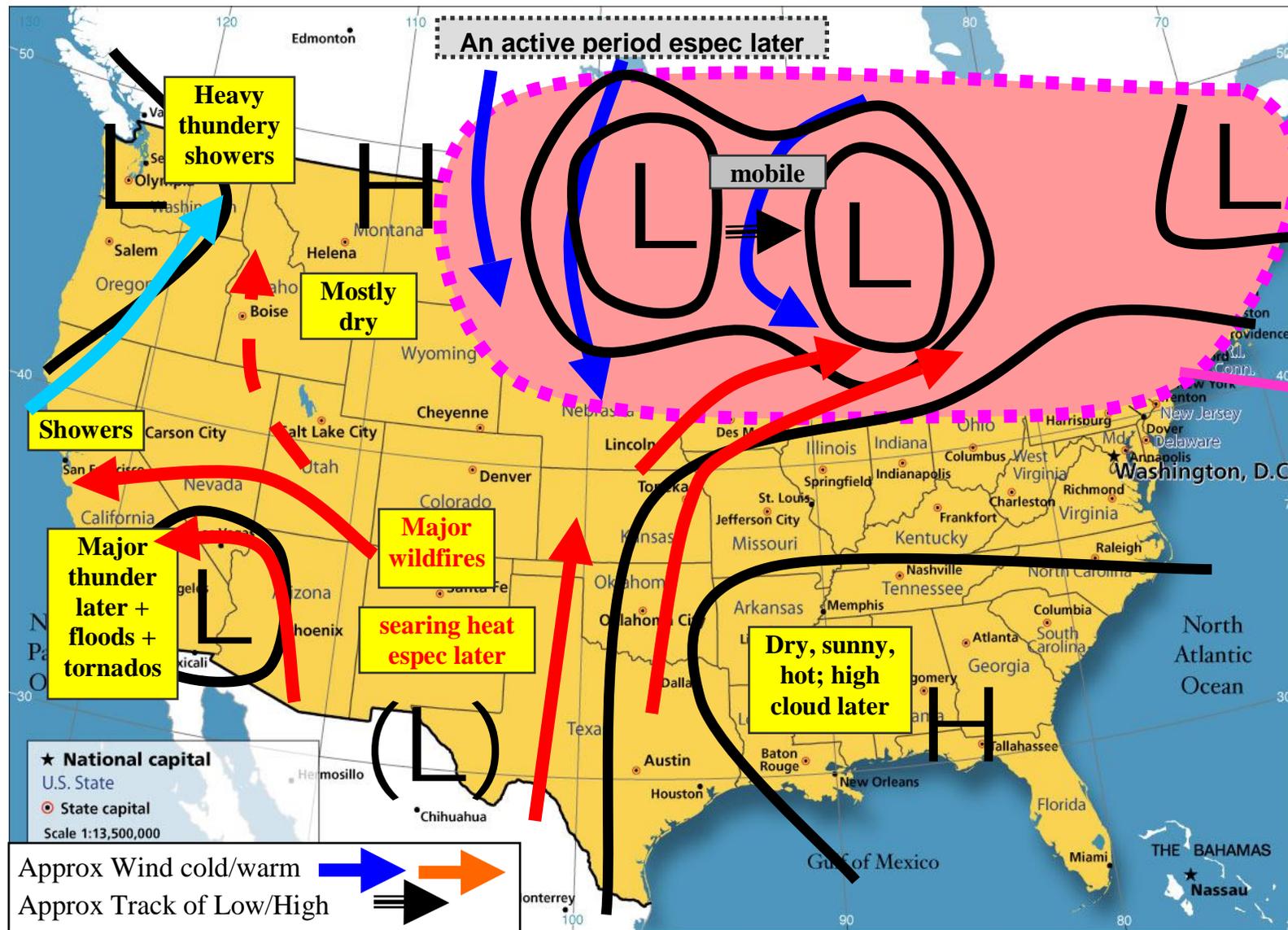
**Key Weather Development JULY 14-16**

**Solar Factors:**  
**R4 14-15; NSF 16<sup>th</sup>**  
 Great Lakes, Midwest, N/E sector of USA large area of active low pressure.  
 S/E quadrant high.  
 West Gulf low pressure.  
 SW USA/S California active low.  
 North of West high pressure.

**Major thunderstorms, tornadoes, floods, giant hail over large area Midwest, Great Lakes + N/E.**

S/E very hot, mostly dry with isolated thunder, sunny.  
 West Gulf major thunderstorms + tornadoes.  
**SW USA very extreme heat strong parching south wind from Mexico. Raging forest fires.**  
 S California major thunder, floods, hail + tornadoes.  
 (N) West Coast thunderly showers.  
 Far NW dry + warm.  
 North of West/Centre dry, mostly sunny + cold nights.

## JULY 17-22 Forecast Confidence B=75% **Timing normally to 2 days; positions approximate.**



### Key Weather Development JULY 17-22

#### Solar Factors:

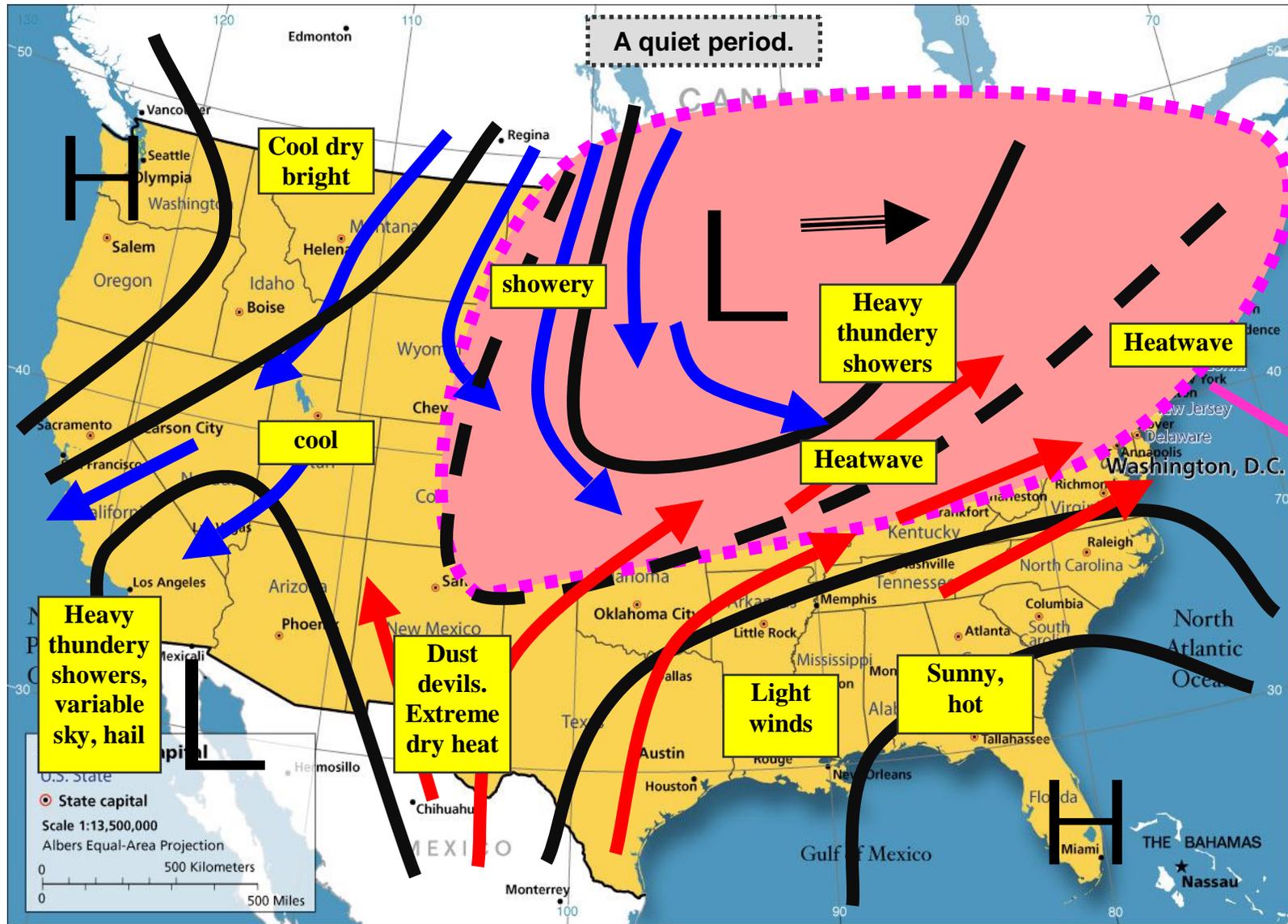
**R3 17-19; R4 20-22**

Mobile active low pressure cross North parts West to East. S/E quarter high pressure. Lows Mexico and S California. Low Pacific NW.

**Large area North Central USA, Great Lakes, Midwest and NE very unsettled esp 20-22<sup>nd</sup> with major thunderstorms, floods, tornados & large hail.**

S/E + Florida dry, sunny, hot; high cloud later.  
SW USA major wildfires, searing heat in strong winds 20-22<sup>nd</sup>, dust storms.  
S California major thunderstorms + floods + hail + tornados (esp 20-22<sup>nd</sup>).  
West coast some showers.  
Pacific NW heavy thundery showers + hail.  
North of West mostly dry; variable sky.

## JULY 23-25 Forecast Confidence B = 80%. **Timing normally to 2 days; positions approximate.**



### Key Weather Development JULY 23-25

#### Solar Factors:

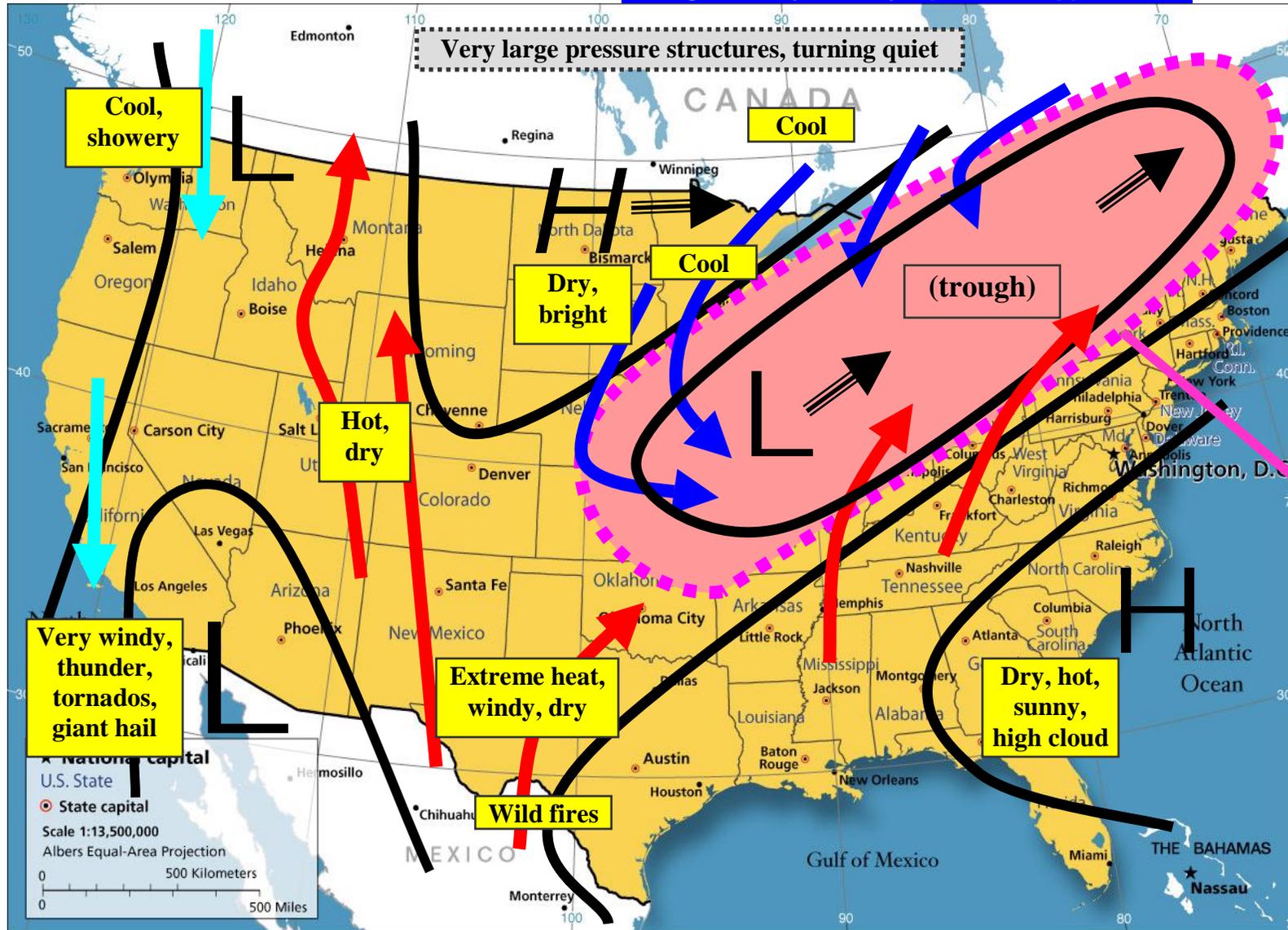
#### NSF 23-25

A quieter, slacker situation with large pressure areas.  
 Mobile moderate lows cross North parts West to East.  
 S/E quieter including all Gulf high pressure.  
 Mexico mostly low pressure.  
 South California low pressure.  
 NW Pacific high.

**Large area from Centre West to NE inc Great Lakes + Midwest heavy thundery showers; hot then cooler.**

Central East + S/E quarter major heatwave, sunny, dry.  
 Texas, New Mexico, Arizona extreme searing dry heat, light winds, dust devils/storms.  
 South California heavy thundery showers, hail, variable sky.  
 Pacific NW dry, cool + bright.  
 North Rockies showery + cool.

## JULY 26-28 Forecast Confidence BC = 70%. Timing normally to 2 days; positions approximate.



### Key Weather Development JULY 26-28

#### Solar Factors:

**NSF 26<sup>th</sup>; R4 27-28<sup>th</sup>**

Large trough of very active low pressure from Centre to NE USA.

East coast + S/E quarter high pressure (including Gulf).

Mexico low.

South California, West Mexico lower pressure.

West coast high.

North Rockies low.

North Centre USA high pressure moving East.

**Extremely active thunderstorms with tornados and strong local winds + giant hail in long region Centre USA-Midwest and most of Great Lakes to NE.**

Region SE of line From West Gulf to New York:- dry, sunny + hot with high cloud.

TX, NM extreme heat, winds + many wild fires.

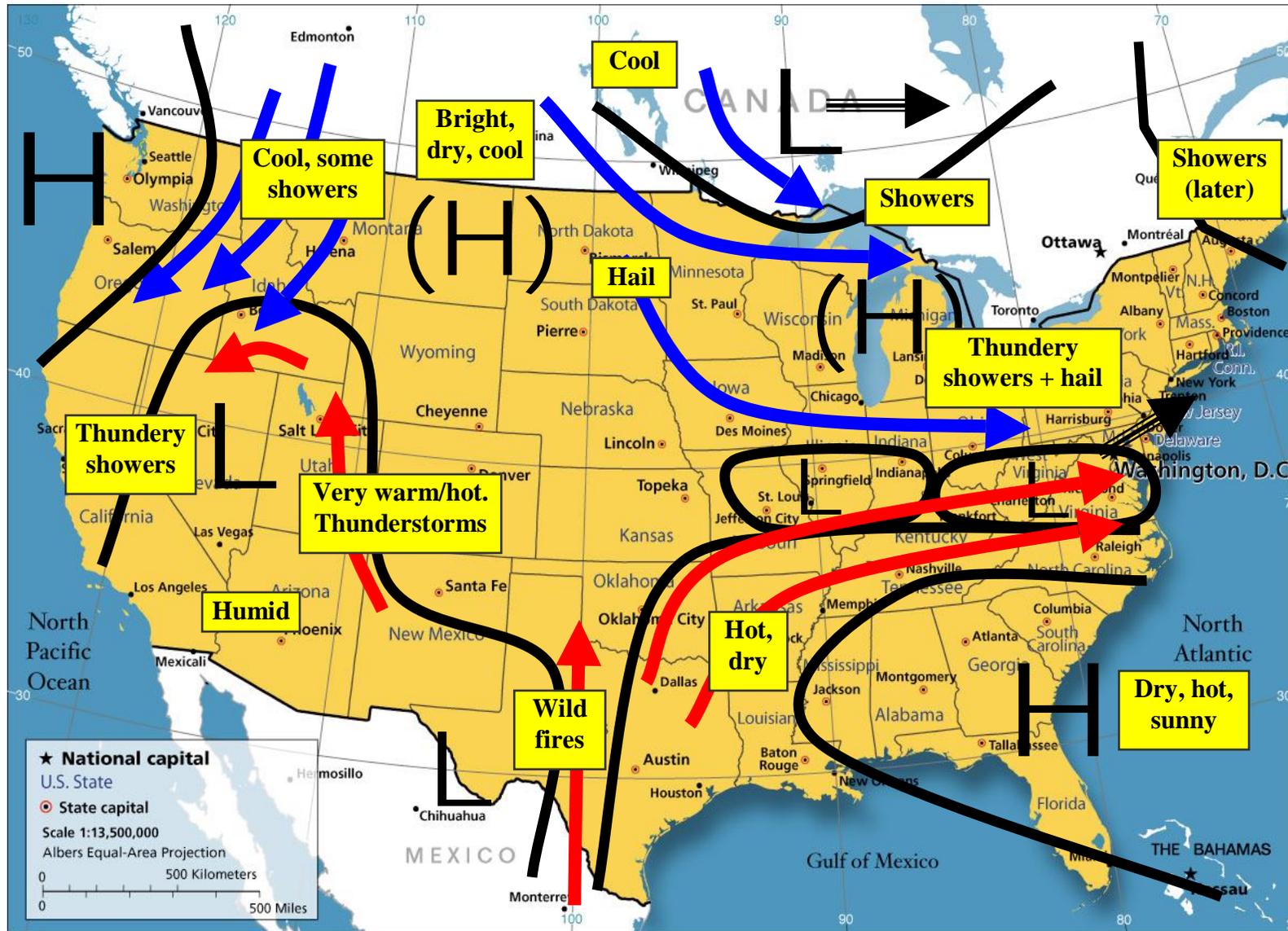
South California thunder, tornados + hail; very windy.

West coast dry + mostly sunny.

North of Rockies cool + showery.

North Centre USA dry + bright, cold nights.

**JULY 29-31 Forecast** Confidence BC = 70%. **Timing normally to 2 days; positions approximate.**



## Key Weather Development JULY 29-31

**Solar Factors:**  
NSF 29<sup>th</sup>; R2 30-31

Quieter than previous. Low pressure (mobile West → East) Canada/N/E USA probably a trough south of Midwest. High S/E quarter USA. Low pressure most of SW quarter. High off Vancouver. High North Rockies.

Great Lakes showery + cool at times. Midwest variable, largely dry. Central east parts a band of thundery showers + hail likely. S/E quarter of USA inc Florida dry, hot + sunny. S/W quarter wildfires, very warm/hot + thundery showers. NW/N Rockies cool + some showers. North Centre mostly dry, bright + cool.