

SEPT 2015 USA & S Canada

Extreme contrasts and rapid changes

Full details and maps pages 2-10

Major heatwave South, Centre and N/E USA in first half of month followed by massive storms. Cold blasts towards month end.

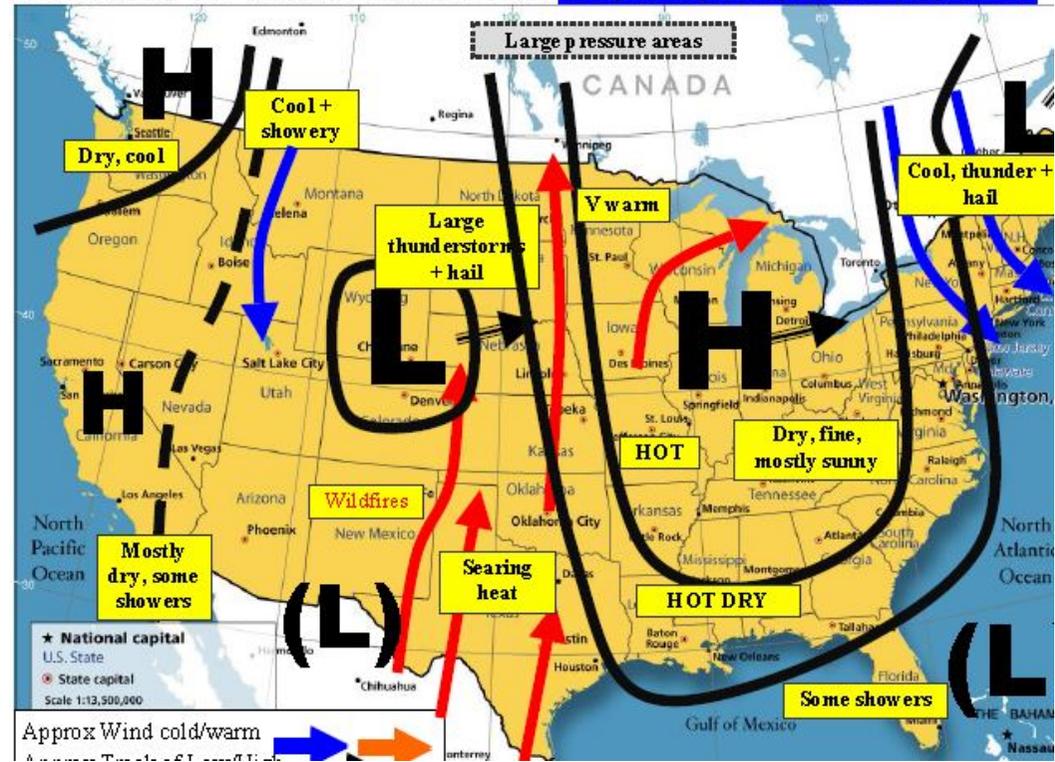
- ~1-16th Prolonged heatwave.
- 17-21st Major breakdown of heat into **extreme thunder, damaging hail, tornadoes & floods** in a large band across central latitudes espec east half.
- 22-30th **Cold blasts** espec in east from 25th.

Main Storm spells (Major / Top red, **R4 /R5** periods) :-
5-7th **R4**; 17-19th **R5**; 20-21st **R4**; 25-27th **R5**.

- 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.
- Changes in circulation giving these often extreme weather patterns are driven by changes in the WeatherAction Solar-Lunar factors which govern the behaviour of the Jet stream and are predictable by WeatherAction's revolutionary Solar-Lunar-Action-Technique (SLAT12b) 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.

Texas Searing heat spot-on mid Aug

AUGUST 12-15 Forecast Confidence B = 75%. **Timing normally to 2 days; positions approximate.**



Aug 12-15 Fcst detail (prod end Jul): NE USA thunderstorms + hail. Great Lakes, mid-west, most of east half of USA + Gulf dry, fine, sunny and hot. Florida mostly dry, some showers. East Rockies hot and dry. **Texas/SW searing heat, wildfires**. Most of west USA/west Rockies cool and showery. S Calif mostly dry, some showers. NW dry and cool but bright.

On 13 Aug 2015, Bob Weber, N Mich USA subscriber wrote: "Piers' forecast... "R4" {R4 is major Red Weather solar-factors period} fronts {re 9-11Aug} were well positioned, and there was a tornado report from PA, & a hail report in upstate NY, but most of the hail this month has been concentrated in the north-central US states. {rather than also in E / NE}.
...**Current forecast period is good as high pressure dominates and Texas is having "searing heat" as Piers said.**"



USA Key Developments & Extremes Forecast SEPTEMBER 2015

P2. KEY WEATHER PERIODS. Available directly on line via <http://www.weatheraction.com/wactmember.asp> prod 31 Aug from SLAT12b (USA)

SEPTEMBER 2015 – Key Weather Developments in 8 weather periods

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

SEP 1-4 Generally quiet and variable. Standard meteorology on course. **Solar Factors:** **NSF 1-2, R2 3-4** Large area of high pressure in east half of USA. Active low in far NE. Mexico/south California low. West coast high. NW low. North centre low pressure. NE USA cold with blustery showers. Great Lakes and eastern half of USA including gulf states and Florida dry, mostly sunny and hot especially in central parts - heatwave. Texas dry and hot. S California/far SW thunderstorms at times, variable sky with thundery feel. West coast fine. NW showery and cool. N Rockies/N centre plains cool and showery.

SEP 5-7 Huge heatwave, high cloud **Solar Factors:** **R4, 5-7** Large area of high pressure east half of USA. Low in far NE moving away. Low Mexico and far SW/S California. Large low north center-west. **NW and north centre USA heavy thunderstorms large hail, local floods, tornado events, damaging winds. A moving area of activity.** Far NE/far SW Canada cool and showery. East half of USA, central USA and Texas, most of SW huge heatwave. Sunny with high cloudy and hot. Wildfires and tornadoes/dust storms, Texas and SW parts. S California hot and humid with isolated thunderstorms. West centre mostly dry, variable sky. More active than standard forecast except from a day or so ahead.

SEP 8-11 Heatwave breakdown in N/E **Solar Factors:** **NSF 8-9; R2 10-11** **Great Lakes, Mid-West, NE USA major thunderstorms, large damaging hail, strong local winds + tornadoes likely, cloudy + turning cool, floods.** SE quarter USA inc Florida dry, sunny, hot, heatwave continues. Texas wildfires, tornadoes, dust storms. New Mexico probably dry + sunny. S California thunderstorms + hail. Centre-West coast showery. Far NW mostly dry + cool. N Rockies/N of West active thunderstorms + large hail.

SEP 12-16 Heatwave continues in SE quarter **Solar Factors:** **R3 12-14; NSF 15-16.** Large active low pressure advances from NW to Great Lakes/Mid West and extends to center. High S/E quarter. L East Mexico + far SW USA West coast high pressure likely Far NW low. **Great Lakes, Mid West + extends to centre USA large area of unsettled weather with heavy rain, local floods + large hail + thunderstorms.** SE quarter including most of Texas + N Florida heatwave continues, dry, hot, sunny. S Florida probably showery &/or cloudy. (W) Texas/New Mexico dust storms + wild fires likely. Far SW/S California thunderstorms + hail. West coast mostly dry + bright. Far NW blustery showers with thunder + hail.

SEP 17-21 An extremely active period with dangerous weather **Solar Factors:** **R5 17-19; R4 20-21** High pressure in NE and North of West half of USA. Low pressure just NW of Great Lakes. Very active low pressure tracks in a curving band across central parts getting very intense in Central East USA and then passing out to sea. Low Mexico High South Florida Far NE dry, variable sky/bright. **Very active curving band from west to east central parts: Intense thunderstorms, giant damaging hail, tornadoes, floods** Florida mostly dry + sunny/bright (high cloud). Gulf states hot + humid. Texas sandstorms + tornadoes. SW USA hot, wildfires. South California major thunderstorms + hail; possible tornadoes. West bright, some thunder. NW cool + showery. North of West mostly dry + cool. NW + W of Great Lakes blustery rain, cold + cloudy + hail + thunder.

SEP 22-24 **Solar Factors:** **R2 22-24** Firm high pressure over Great Lakes Mid West and Central/North parts. Filling low E/NE coast/at sea. Higher pressure Florida. Low West Mexico + S California. West coast high. North of West low. **N/E coastal areas thunderstorms, hail and some flash floods, locally strong winds.** Florida hot + sunny. Gulf states very humid + hot. Texas and Central states North of Texas hot + dry. South California hot, humid + threat of thunder. West coast fine + sunny. North of West half USA showery + cool. Great Lakes, Mid West, Central/East parts dry, sunny + mostly warm or hot (cool in East Great Lakes)

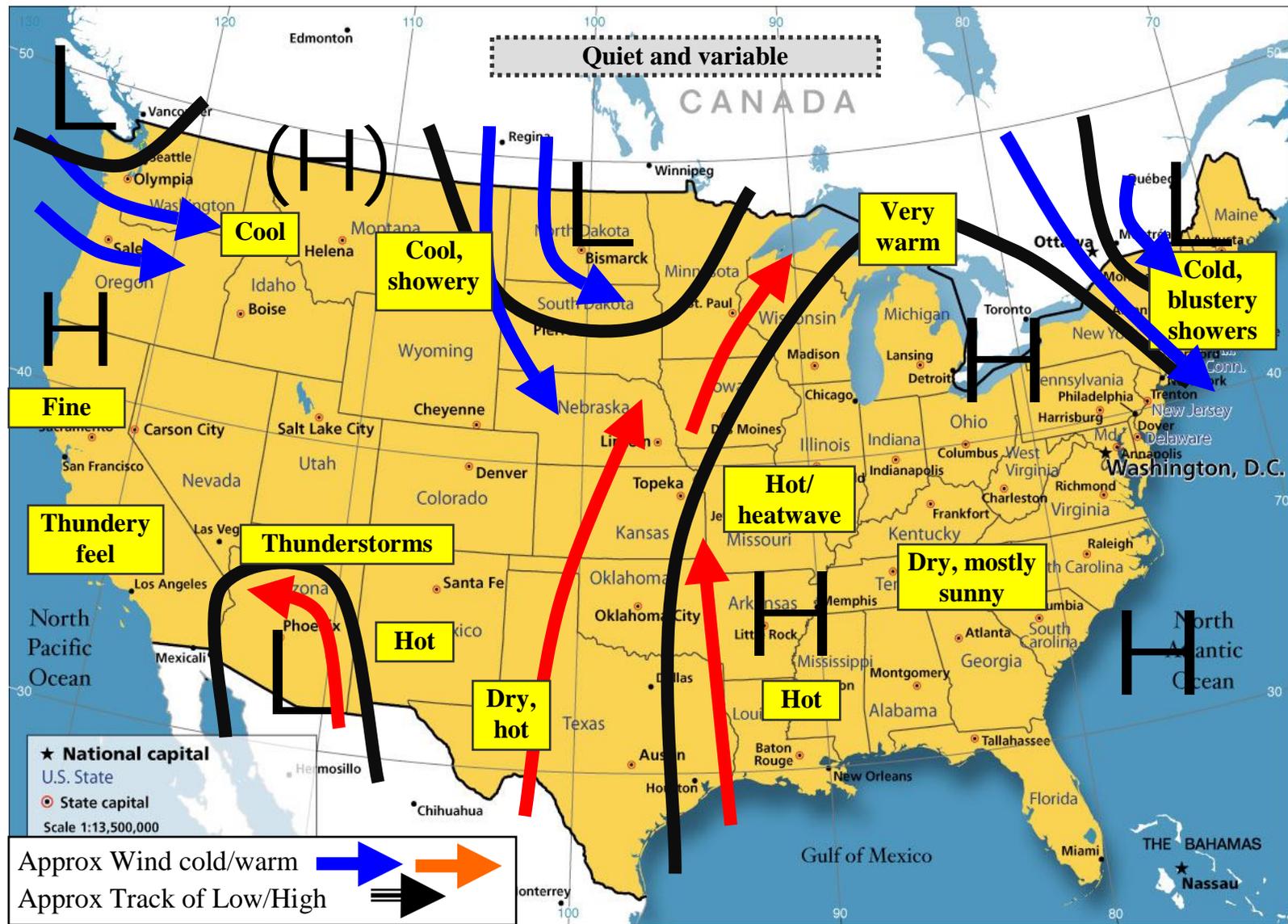
SEP 25-27 A fast changing very active period. **Solar Factors:** **R5 25-27** High pressure (of largely relatively cold air) in East/SE quarter of USA moving E/SE. Extremely active low over Great Lakes/South California. High North of West. Low(s) West Mexico, S California. Low W/NW USA. **North Central USA, Great Lakes heavy rain + deluges, thunder, hail, floods, tornado activity, snow/blizzards in places.** E + S/E USA inc Florida dry, variable sky, coolish espec towards coast. West Gulf + Texas duststorms, hot. West coast variable. NW/W thunder, floods, tornadoes + hail. North of West + S Canada dry, cold, variable sky.

SEP 28-30 Quieter + calmer than previous period. **Solar Factors:** **NSF 28-29; R2 30** (Cool) High pressure NW quarter of USA. Filling low Great Lakes/Mid-West moving Eastwards. Higher pressure far NE. Low West Mexico + S California. Far NE USA dry + fine, coolish. **Great Lakes + Mid-West wet + breezy, blustery showers, hail, some thunder, snow/blizzards in places.** East coast mostly dry, variable sky. Florida variable sky, coolish. Gulf States variable, mostly dry. Texas mostly dry, variable sky. Threat of thunder in West. Far SW + S California warm, isolated thunderstorms. NW Pacific and North of West dry, quite warm in west, cool towards central USA.

MAPS of Weather periods p 3 onwards

To Watch, Comment or Report on forecasts go to the public blogs www.WeatherAction.com - Comments

SEP 1-4 Forecast Confidence B = 75%. **Timing normally to 2 days; positions approximate.**



Key Weather Development SEP 1-4

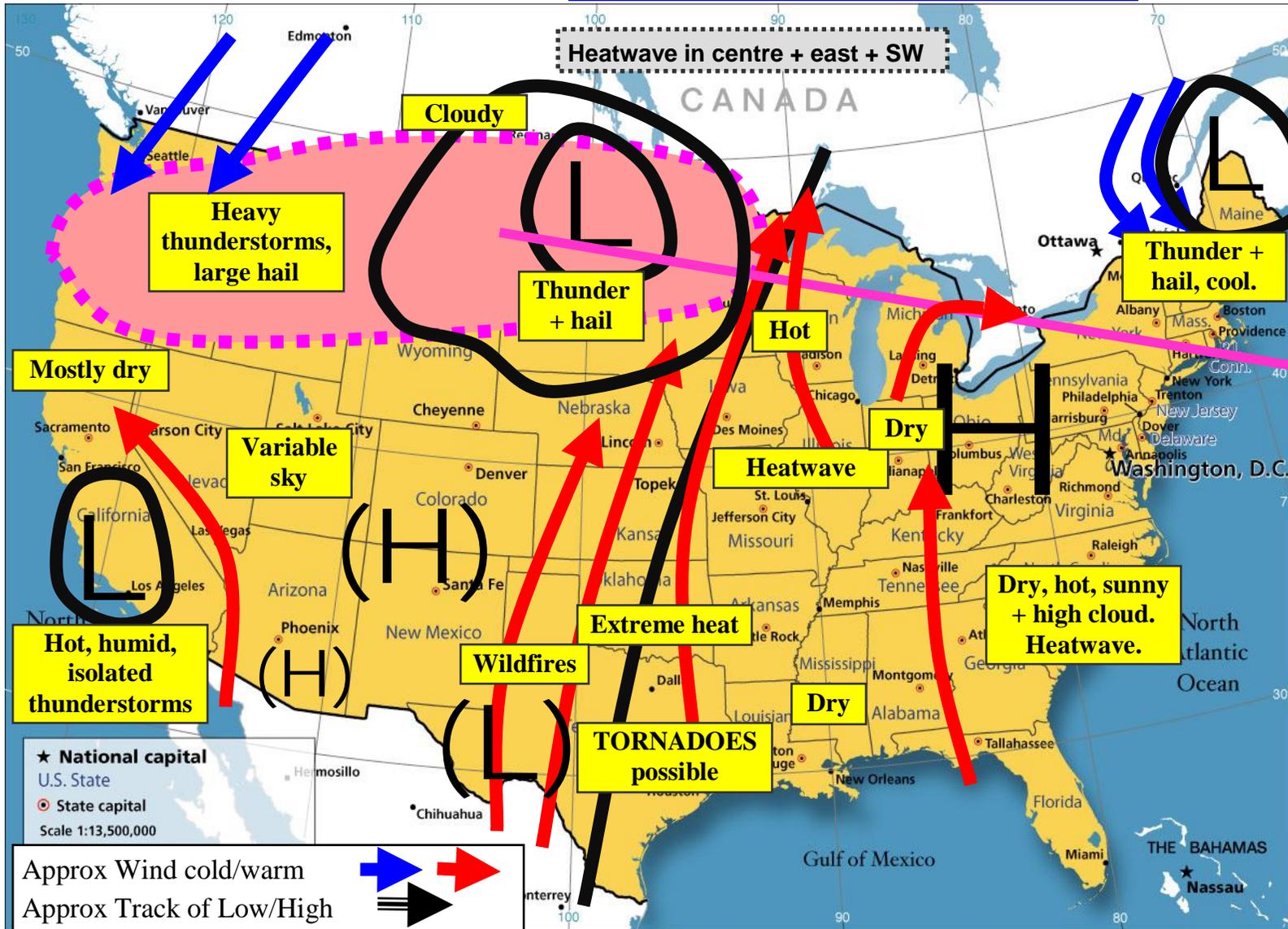
Generally quiet and variable. Standard meteorology on course.

Solar Factors:
NSF 1-2, R2 3-4

Large area of high pressure in east half of USA.
Active low in far NE.
Mexico/south California low.
West coast high.
NW low.
North centre low pressure.

NE USA cold with blustery showers.
Great Lakes and eastern half of USA including Gulf states and Florida dry, mostly sunny and hot especially in central parts - heatwave.
Texas dry and hot.
S California/far SW thunderstorms at times, variable sky with thundery feel.
West coast fine.
NW showery and cool.
N Rockies/N centre plains cool and showery.

SEP 5-7 Forecast Confidence AB = 80%. **Timing normally to 2 days; positions approximate.**



Key Weather Development SEP 5-7

Huge heatwave, high cloud

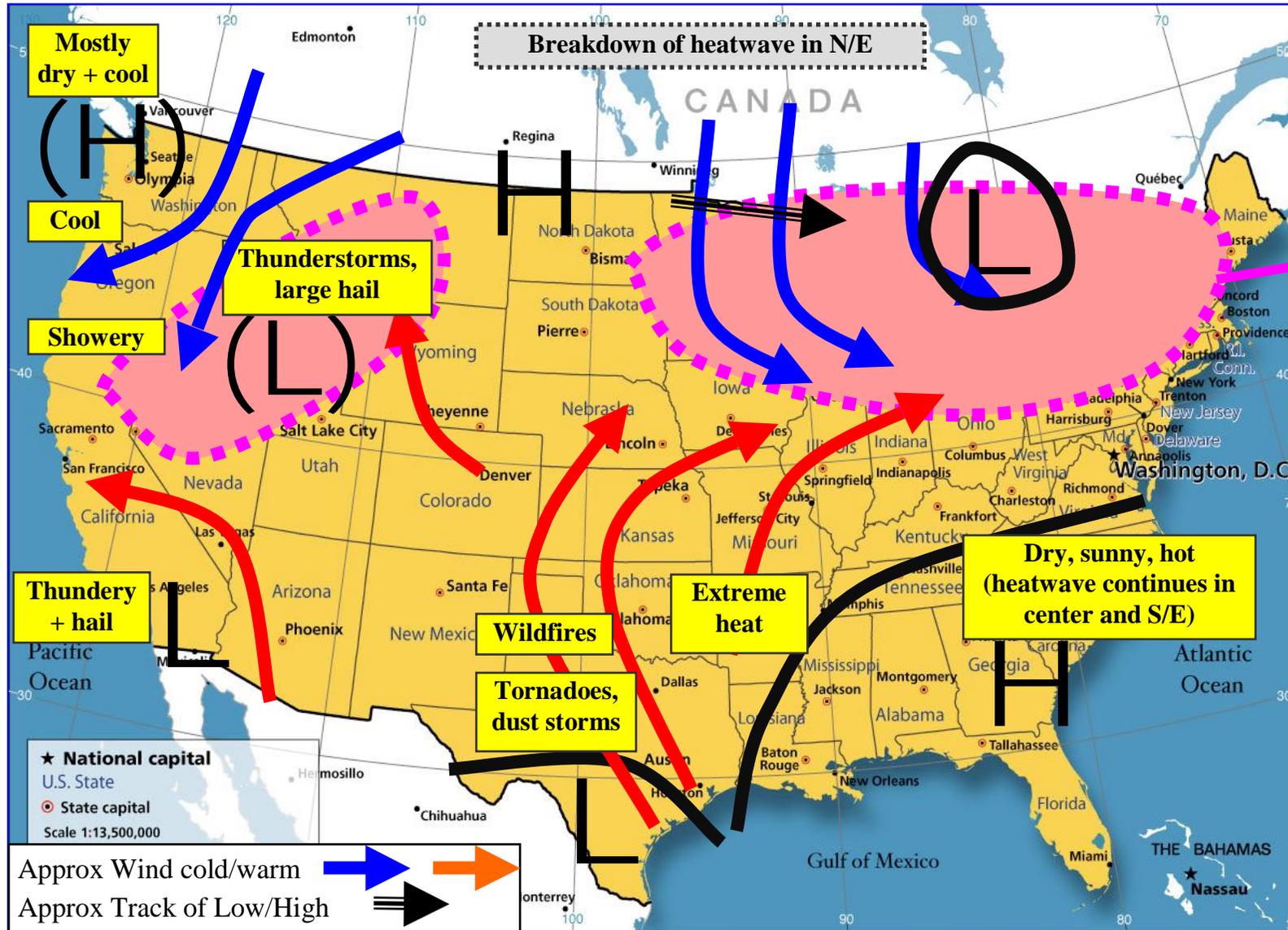
Solar Factors:
R4, 5-7
 Large area of high pressure east half of USA.
 Low in far NE moving away.
 Low Mexico and far SW/S California.
 Large low north center-west.

NW and north centre USA heavy thunderstorms large hail, local floods, tornado events, damaging winds. A moving area of activity.

Far NE/far SW Canada cool and showery.
 East half of USA, central USA, Texas and most of SW huge heatwave.
 Sunny with high cloudy and hot. Wildfires and tornadoes/dust storms, Texas and S/W parts.
 S California hot and humid with isolated thunderstorms.
 West centre mostly dry, variable sky.

More active than standard forecast except from a day or so ahead.

SEP 8-11 Forecast Confidence AB = 80%. **Timing normally to 2 days; positions approximate.**



Key Weather Development SEP 8-11

Heatwave breakdown in N/E

Solar Factors:
NSF 8-9; R2 10-11

Great Lakes, Mid-West, NE USA major thunderstorms, large damaging hail, strong local winds + tornadoes likely, cloudy + turning cool, floods.

SE quarter USA inc Florida, dry, sunny, hot, heatwave continues.

Texas wildfires, tornadoes, dust storms.

New Mexico probably dry + sunny.

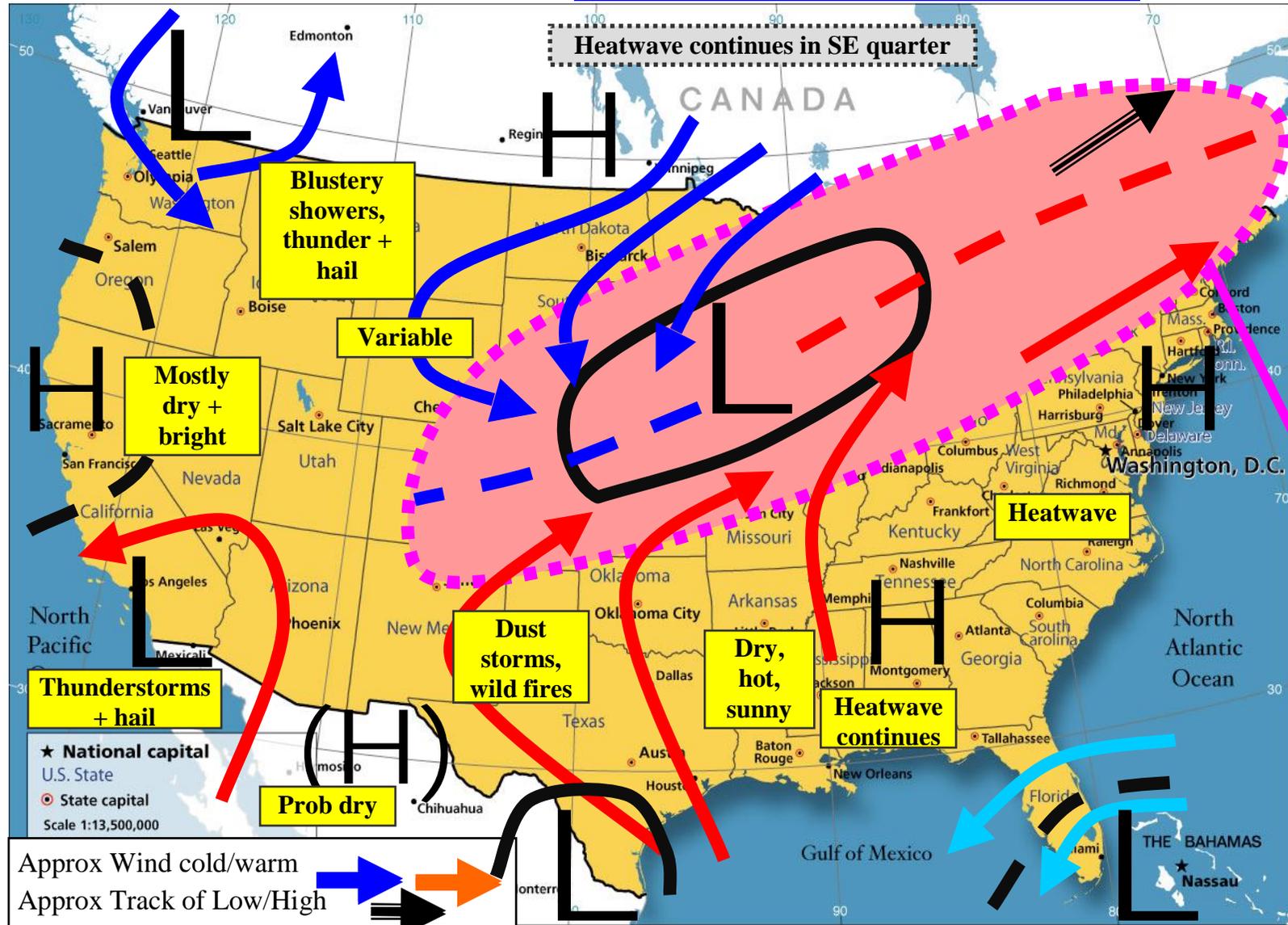
S California thunderstorms + hail.

Centre-West coast showery.

Far NW mostly dry + cool.

N Rockies/N of West active thunderstorms + large hail.

SEP 12-16 Forecast Confidence B = 75%. **Timing normally to 2 days; positions approximate.**



Key Weather Development SEP 12-16

Heatwave continues in SE quarter

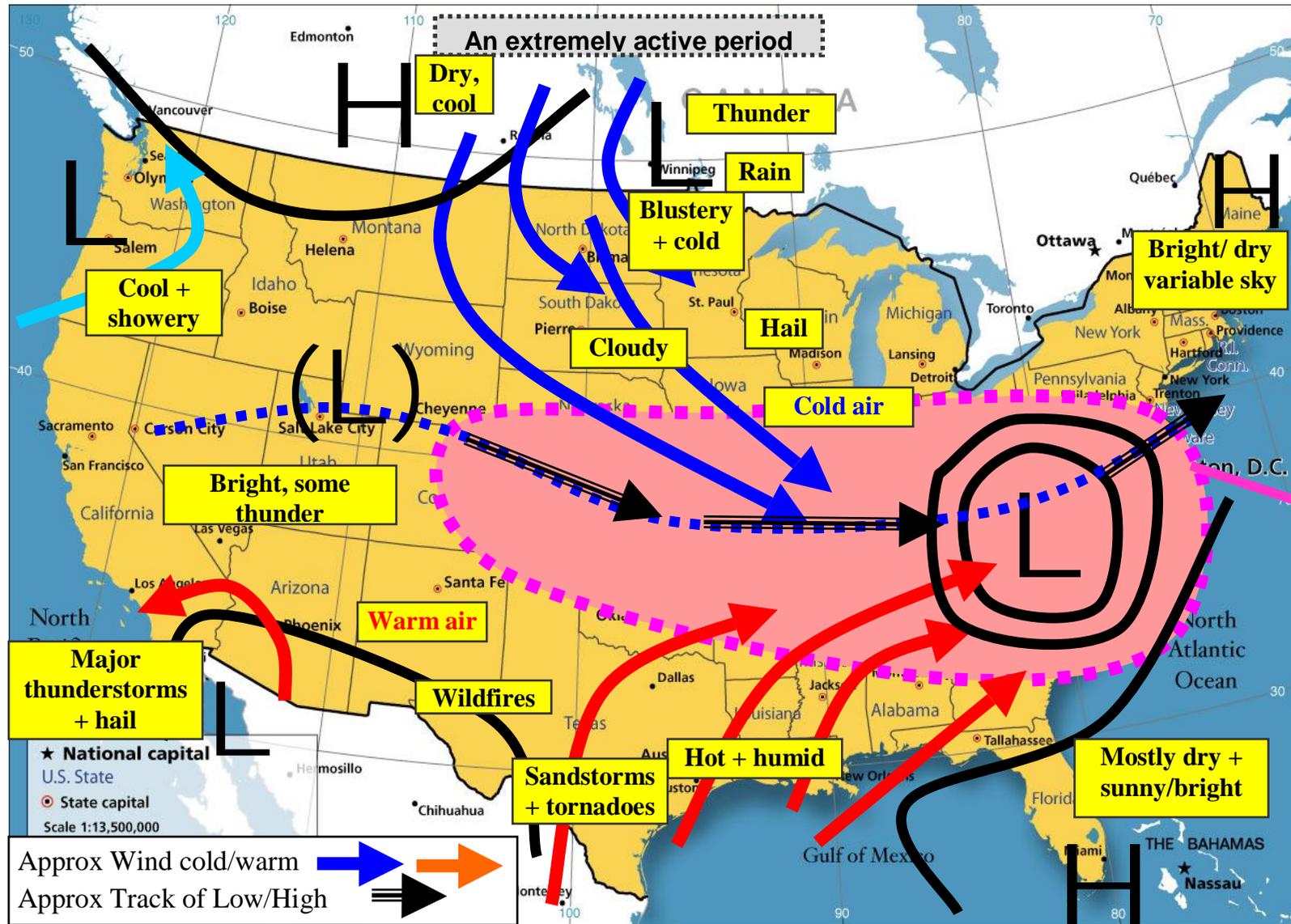
Solar Factors:
R3 12-14; NSF 15-16

Large active low pressure advances from N/W to Great Lakes/Mid West and extends to center.
High S/E quarter.
Low East Mexico + far SW USA
West coast high pressure likely.
Far NW low.

Great Lakes, Mid West + extends to centre USA large area of unsettled weather with heavy rain, local floods + large hail + thunderstorms.

SE quarter including most of Texas + N Florida heatwave continues, dry, hot, sunny.
S Florida probably showery &/or cloudy.
(W) Texas/New Mexico duststorms + wild fires likely.
Far SW/S California thunderstorms + hail.
West coast mostly dry + bright.
Far NW blustery showers with thunder + hail.

SEP 17-21 Forecast Confidence C=65% **Timing normally to 2 days; positions approximate.**



Key Weather Development SEP 17-21

An extremely active period with dangerous weather

Solar Factors:

R5 17-19; R4 20-21

High pressure in NE and North of West half of USA.

Low pressure just NW of Great Lakes.

Very active low pressure tracks in a curving band across central parts getting very intense in Central East USA and then passing out to sea.

Low Mexico

High South Florida

Far NE dry, variable sky/bright.

Very active curving band from west to east central parts: Intense thunderstorms, giant damaging hail, tornadoes, floods

Florida mostly dry + sunny/bright (high cloud)

Gulf states hot + humid

Texas sandstorms + tornadoes

SW USA hot, wildfires

South California major thunderstorms + hail, possible tornadoes.

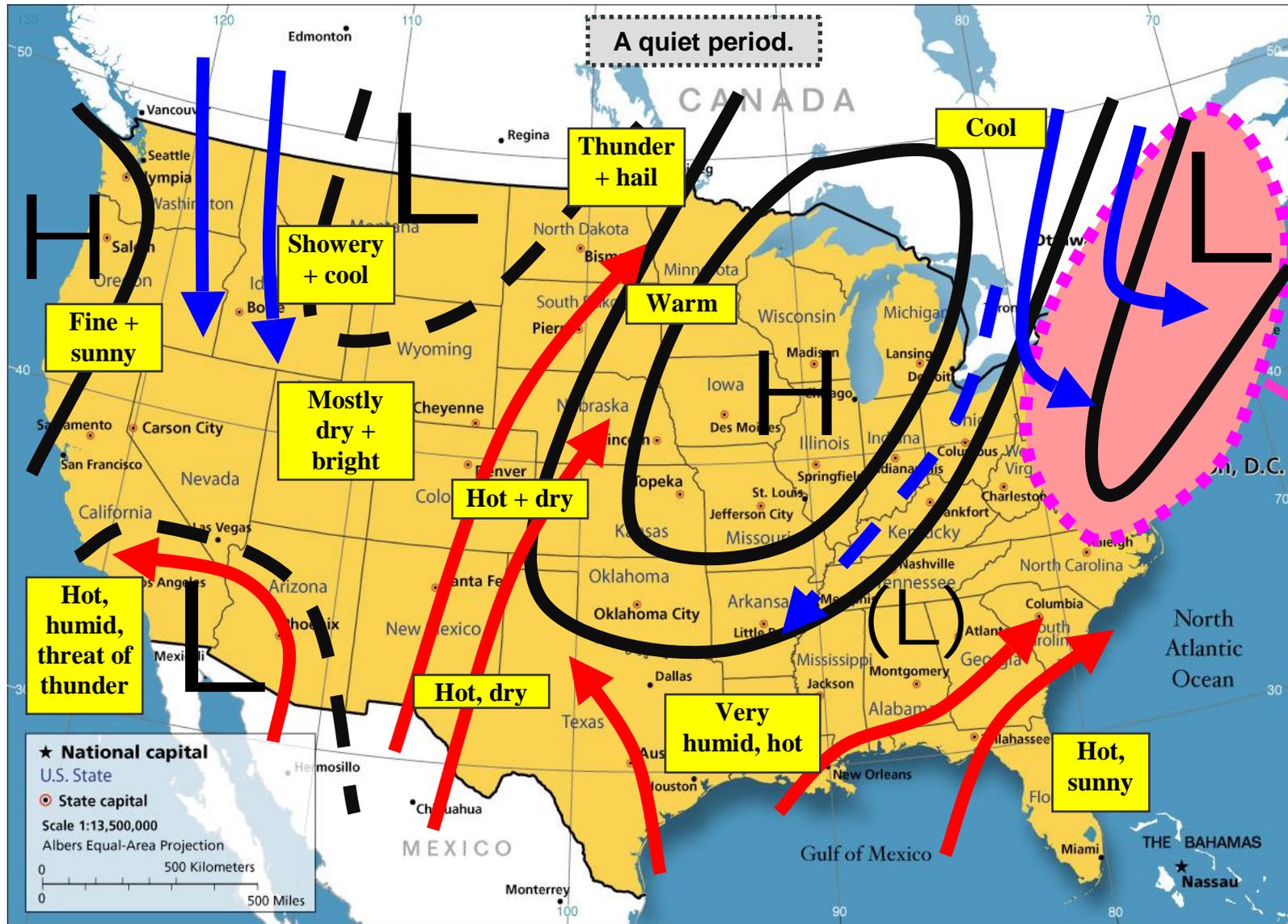
West bright, some thunder

NW cool + showery

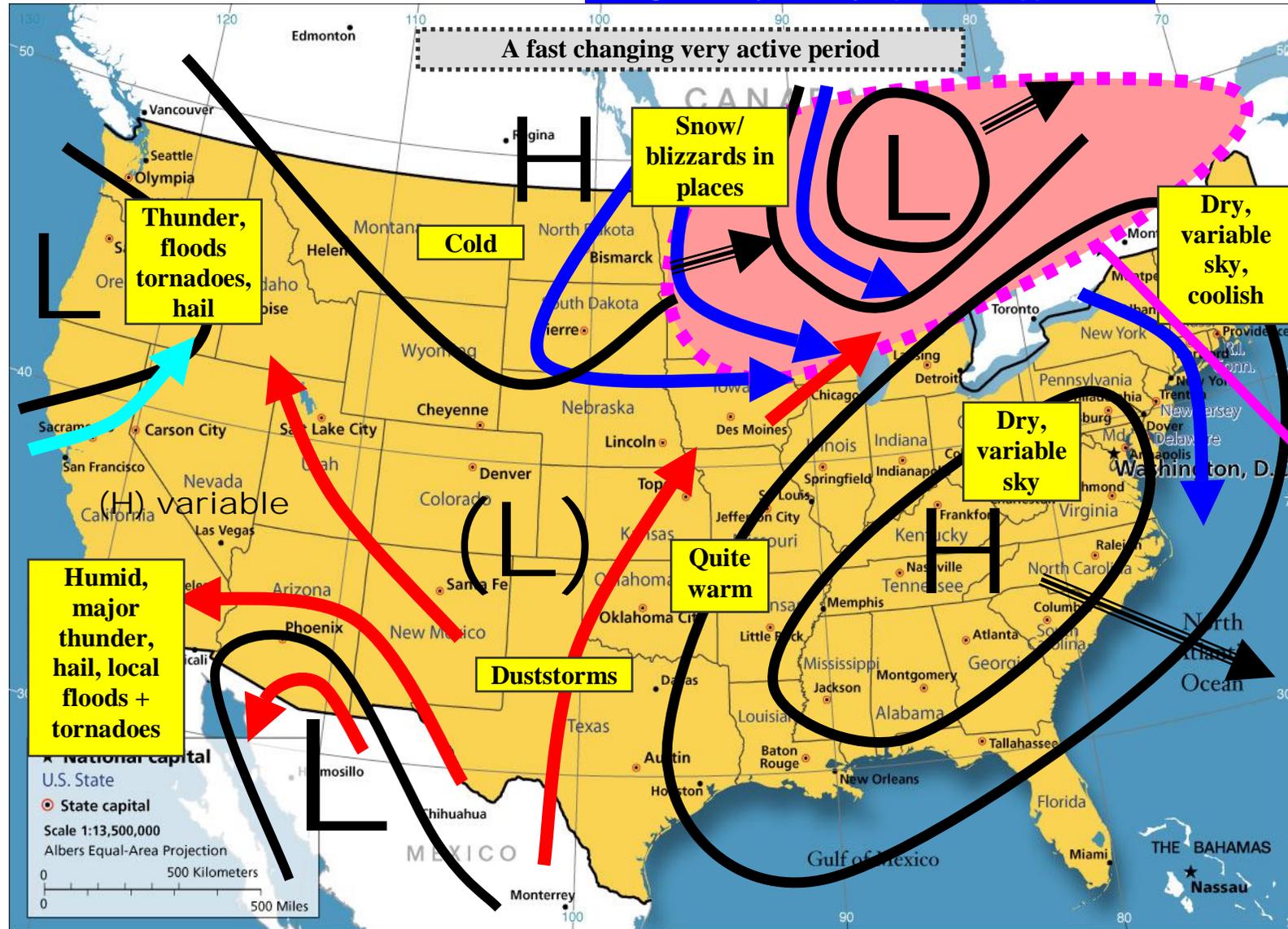
North of West mostly dry + cool

NW + W of Great Lakes blustery rain, cold + cloudy + hail + thunder.

SEP 22-24 Forecast Confidence B = 75%. **Timing normally to 2 days; positions approximate.**



SEP 25-27 Forecast Confidence B = 75%. **Timing normally to 2 days; positions approximate.**



Key Weather Development SEP 25-27

A fast changing very active period

Solar Factors: R5 25-27

High pressure (of largely relatively cold air) in East/SE quarter of USA moving E/SE.

Extremely active low over Great Lakes/South California.

High North of West.

Low(s) West Mexico, S California.

Low W/NW USA.

North Central USA, Great Lakes heavy rain + deluges, thunder, hail, floods, tornado activity, snow/blizzards in places.

E + S/E USA inc Florida dry, variable sky, coolish, espec towards coast.

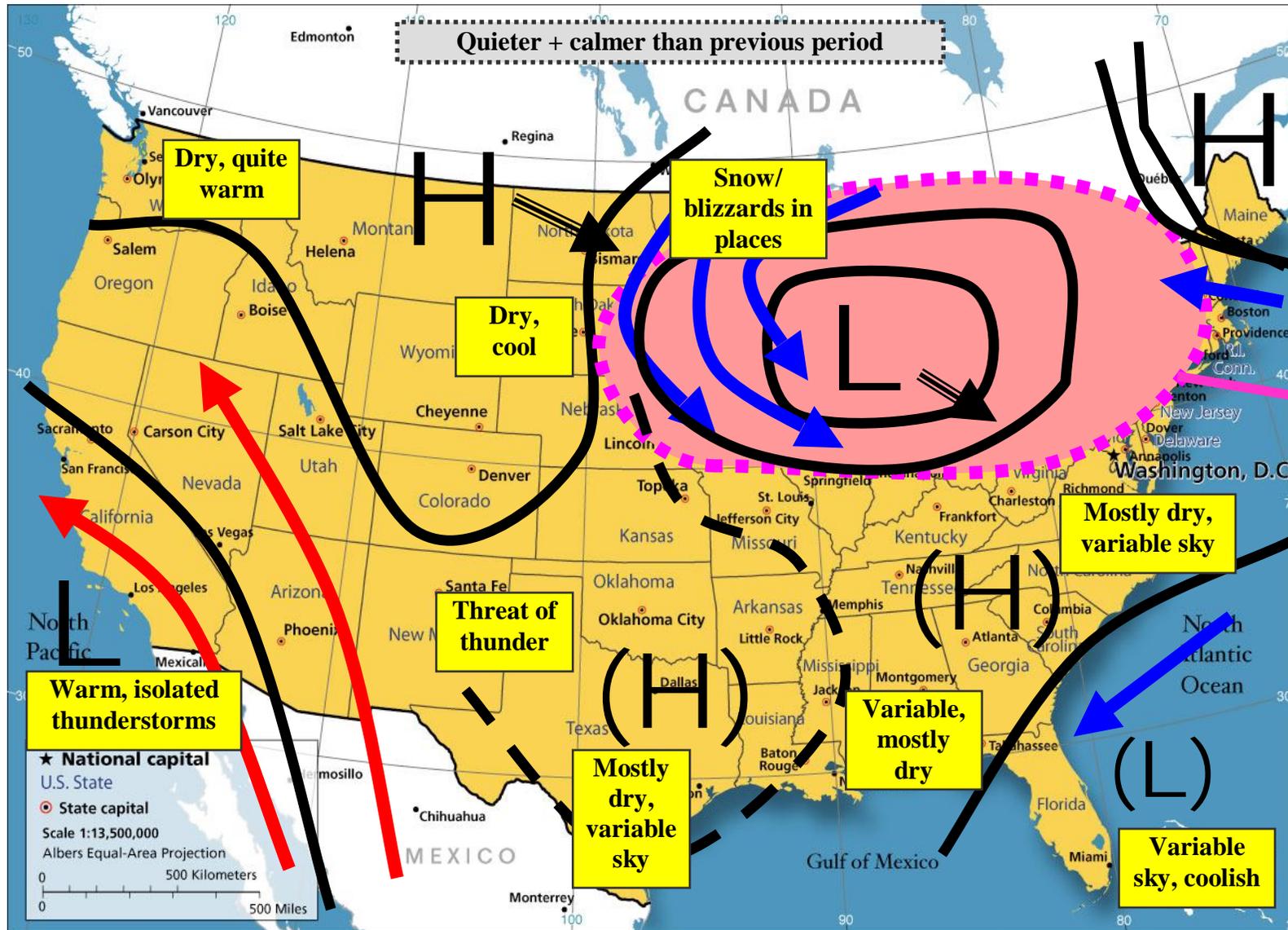
West Gulf + Texas duststorms, hot.

West coast variable.

NW/W thunder, floods, tornadoes + hail.

North of West + S Canada dry, cold, variable sky.

SEP 28-30 Forecast Confidence A = 85%. Timing normally to 2 days; positions approximate.



Key Weather Development SEP 28-30
Quieter + calmer than previous period

Solar Factors:

NSF 28-29; R2 30

(Cool) High pressure NW quarter of USA.
Filling low Great Lakes/Mid-West moving Eastwards.
Higher pressure far NE.
Low West Mexico + S California.
Far NE USA dry + fine, coolish.

Great Lakes + Mid-West wet + breezy, blustery showers, hail, some thunder, snow/blizzards in places

East coast mostly dry, variable sky.
Florida variable sky, coolish.
Gulf States variable, mostly dry.
Texas mostly dry, variable sky.
Threat of thunder in West.
Far SW + S California warm, isolated thunderstorms.
NW Pacific and North of West dry, quite warm in west, cool towards central USA.