



USA Key Developments & Extremes Forecast JANUARY 2015

P 2. KEY WEATHER PERIODS. Available directly on line via <http://www.weatheraction.com/wactmember.asp> Prod 30 Dec from choices 16 Dec.

JANUARY 2015 – Key Weather Developments in 8 weather periods SLAT11 (USA)

JANUARY 1-4 Solar Factors: R3 1-2; R3 3-4 Major cold high pressure in West half USA expands East/SE as lows in S/E move NE while getting more active. Low Mexico. Prob low off Vancouver/Pacific North West. North central USA very cold with very sharp frosts and snow flurries. West Great Lakes & most of Midwest very cold with snow showers. East Great Lakes & NE USA becoming increasingly cold & snowy. **East/Centre USA (e.g. MO, TN, KY, WV, OH, South IN, South IL) increasingly heavy snow/sleet in South parts.** Carolinas, Georgia, Florida cloudy + showery, quite mild probably turning brighter later. Gulf states mild, some showers. SW (TX, NM, AZ) turning mild/very mild, dry. South California mild + mostly bright. West/NW coast showery + coolish. Rockies cold nights becoming fine + less cold in central parts. Pacific NW rain/sleet showers especially later.

JANUARY 5-7 Solar Factors: NSF 5-7 Turning quieter and less windy. Cold high pressure centred over North of West USA generally shrinks as Mexico low moves North and shallow low develops on Eastern seaboard. Quick active low far NE. Light powdery snow far NE USA. **Great Lakes + most of Midwest heavy sticky snow.** SE (NC/SC, GA, parts Florida) becoming showery, mostly cloudy, quite mild. Sleet/rain boundary moves north. Gulf states mostly mild with a few showers, variable sky. SW (TX, NM, AZ) very mild, some showers possible, variable sky. South California probably mild & dry with variable sky. West/NW coast dry, Vancouver bright. North of centre West and centre USA cold, dry, very sharp fronts, foggy mornings, bright afternoons in most parts.

JANUARY 8-12 Solar Factors: R5 8-10; R3 11-12 A very active fast changing situation. High pressure generally remains centered in West half of North USA and extends towards SE with variable active lows moving from Gulf/SE to NE. Active lows West Mexico and West coast USA. **Massive snowfall, blizzards, white-out and thundersnow in huge swathe of USA: most of Great Lakes, Midwest and Central-East + NE USA, especially active 8-10th.** Sleet/rain boundary to South moves North later in period. Georgia/Florida becoming mild + bright (especially later). Gulf states + East TX major thunder and tornadoes + giant hail (espec 8-10th). SW parts dust storms + tornadoes espec 8-10th. South California quite mild with variable sky, rain + thunder (espec 8-10th). West coast showery. Vancouver showery then brighter. **South/Central Rockies/Colorado heavy snow + thundersnow + large hail.** West North parts dry, extremely cold, sharp frosts and fog.

JANUARY 13-15 Solar Factors: NSF 13-14; R3 15 Becoming much quieter with less wind snow and rain. High pressure to North of West moves East and a low from NW follows, in a new quasi-mobile situation. High probable on West coast. Low West Mexico. Low Gulf. Great Lakes + NE becoming dry and fine as old low moves away NE + new high moves in. Florida + Georgia becoming mostly fine, sunny and quite warm. Gulf states humid and thundery with sunny periods. Texas mostly dry, fine and warm. SW (NM, AZ) very warm, mostly sunny/bright. South California warm + mostly fine. West + West Rockies mostly fine + dry. Vancouver variable. North of West half USA cold with light snow showers on icy surfaces VERY DANGEROUS. West Great Lakes probably turns bright then more cloud but mild later.

JANUARY 16-20 Solar Factors: R3 15-16; R3 17-18; NSF 19-20 General large scale West to East mobility takes over. A march of "thick sandwich" highs and lows across North USA with largely stationary low pressure over (West) Mexico and higher pressure South Texas. Confused state in Gulf but Florida probably high pressure later. Great Lakes + NE largely cold and snowy (espec 17-18th) some drifting but not extreme. SE + Florida variable showers becoming fine later. West Gulf/West TX mostly fine + dry. SW states very warm with thunderstorms and hail 15-18th, quieter and warm later in period. South California warm with variable sky + showers then fine and dry. West coast cool with variable sky. Vancouver variable, brighter later. North of West half US variable snow showers – dry – showers (snow), often very cold with sharp frosts.

JANUARY 21-23 Solar Factors: R5 21-23 An extremely active period probably associated with a stratosphere warming event. * A warming of the lower stratosphere which would have followed from an upper stratospheric warming just before mid month. A deep ferocious low tracks from West to Great Lakes and then NE. High pressure East coast. High pressure over most of West builds later and advances Eastwards in a very large scale pattern. Low pressure Mexico very active. Low pressure in (West) Gulf. **Extreme blizzards, white out + powdery snow/thundersnow over most of Great Lakes + North of Great Lakes. Blizzards of thick more sticky snow + thundersnow over whole of Midwest and a large swathe of N/E USA. Tornado development with the thundersnow very likely.** S/East coast mostly dry and bright/mild. Gulf states thunderstorms, tornadoes + giant hail. SW USA major thunder + duststorms. South California very warm + thundery with large hail. West coast thundery showers. NW variable then mostly fine. North of West USA cold, cloudy, icing + ice storms likely.

JANUARY 24-27 Solar Factors: NSF A much quieter/slacker period and a change in circulation pattern. As active low in previous period moves NE & fills a shallow low from Gulf moves NE in a different circulation pattern. High North of West USA. High off East coast. High off West coast. Mexico low. NE USA light showers, cloudy + cool. East parts mostly mild, dry & becoming fine. Gulf states warm + humid with thundery showers. Texas becoming warm & sunny. SW (NM, AZ) probably very mild/warm with threat of thunder. South California variable sky + mostly dry. West coast dry fine + cool. Vancouver/Seattle variable sky, rain/sleet showers. North of West (MT, WY, ND, SD) dry, fine, cold + frosty.

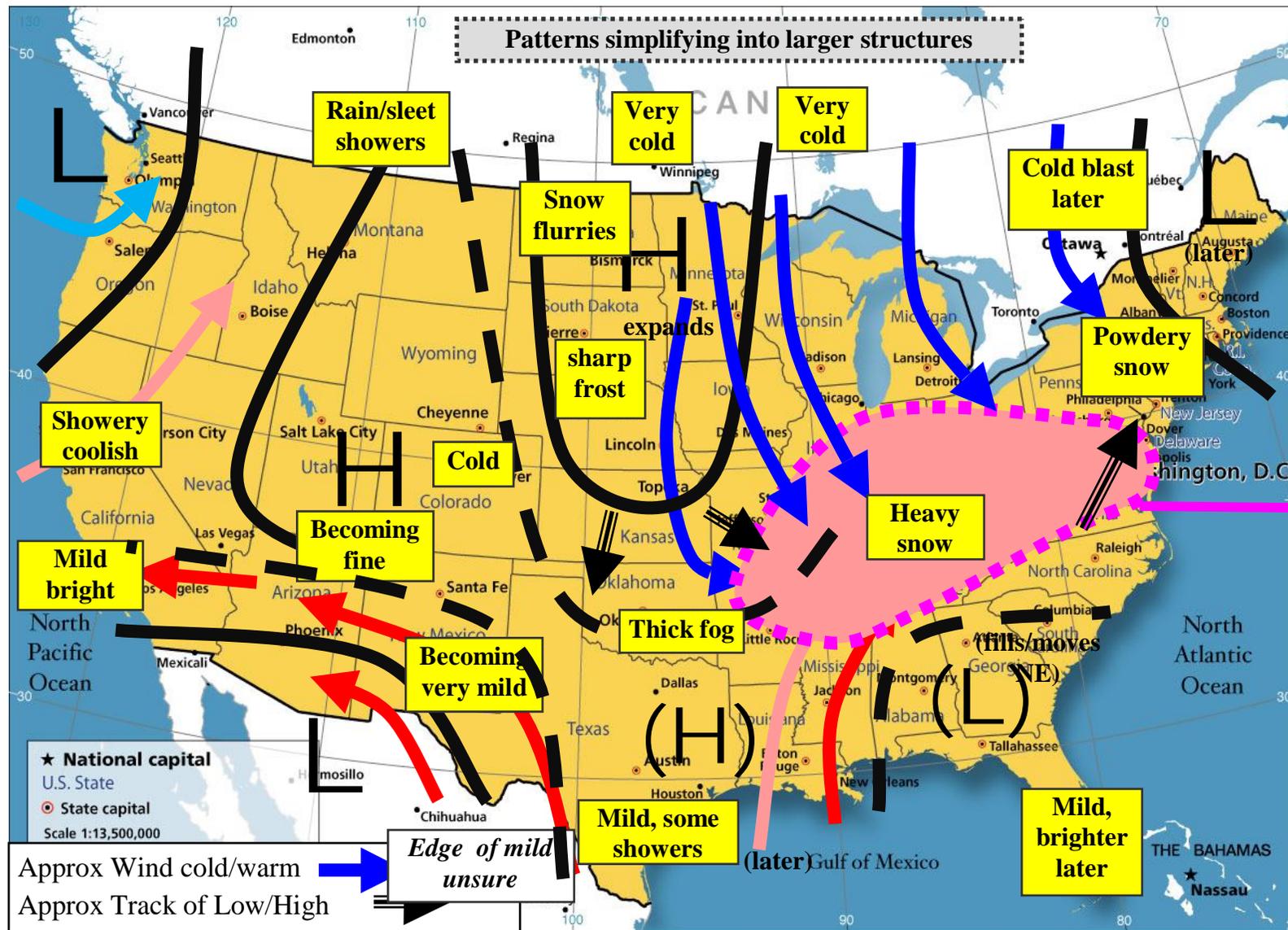
JANUARY 28-31 Solar Factors: R3 28-29; R3 30-31 Change to static active situation. Lows in SE quarter of USA. More NE & a static expanding high builds there. Active low in NE with fronts over Great Lakes. Low Mexico. Probably low West coast later. High pressure in West-North weakly linked to high SE. Heavy snow Great Lakes, Midwest + NE USA (powdery in Canada, sticky in New England). Mostly dry with variable sky + fog SE quadrant of USA. Showery in (S) Florida. SW USA very mild/warm, duststorms + some thunder. South California warm, dry + variable sky. (Centre) West coast showery. Pacific NW Vancouver, Seattle cold + showery. North of West half USA cold + snowy. Central Rockies cloudy, misty & drizzly.

MAPS of Weather periods p 3 onwards

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JANUARY 1-4 Forecast Confidence B = 75%. Timing normally to one day; positions approximate.



Key Weather Development JANUARY 1-4

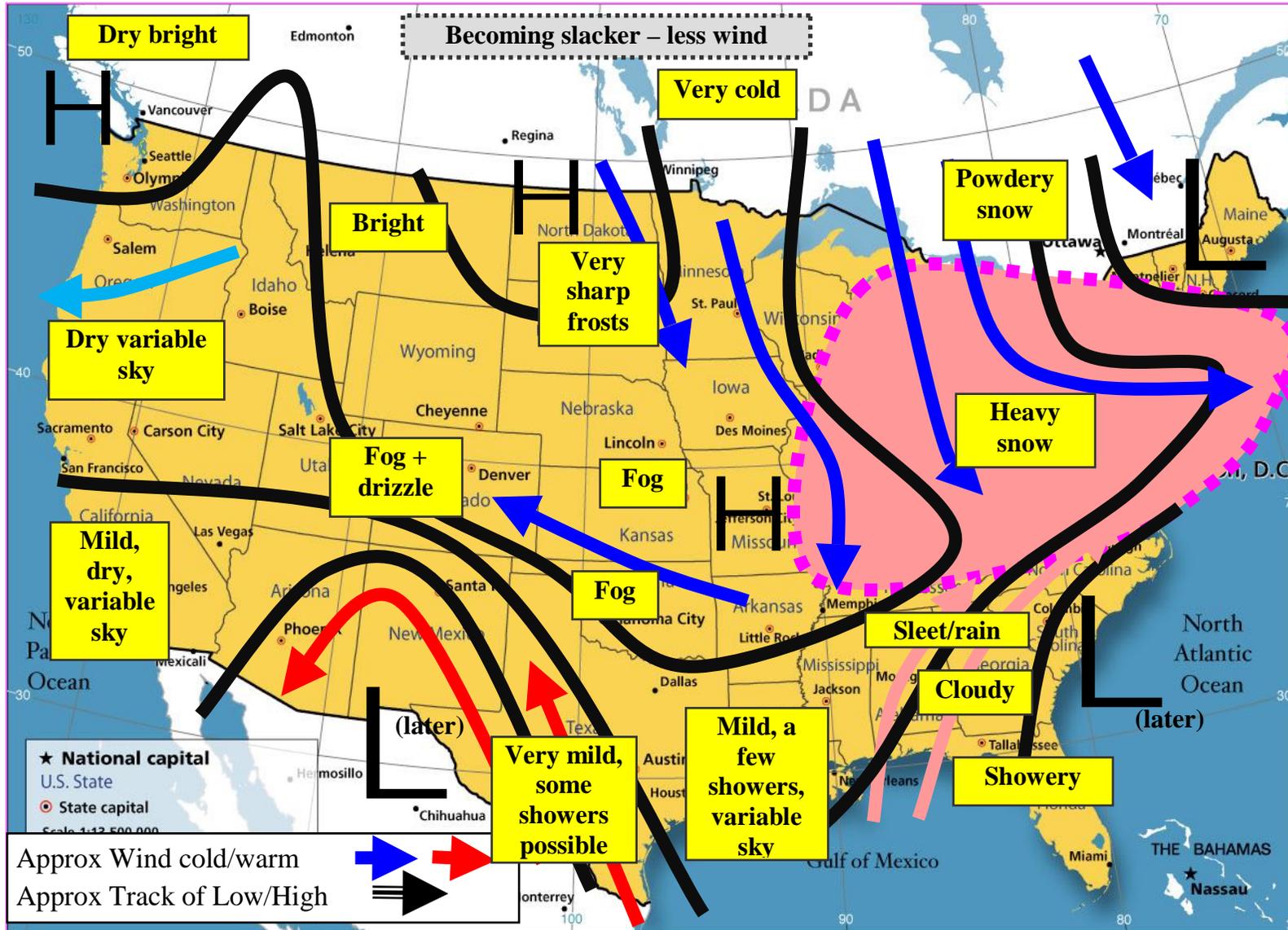
Solar Factors:
R3 1-2; R3 3-4

Major cold high pressure in West half USA expands East/SE as lows in S/E move NE while getting more active. Low Mexico. Prob low off Vancouver/Pacific North West
North central USA very cold with very sharp frosts and snow flurries. West Great Lakes & most of Midwest very cold with snow showers.
East Great Lakes & NE USA becoming increasingly cold & snowy.

East/Centre USA (e.g. MO, TN, KY, WV, OH, South IN, South IL) increasingly heavy snow/sleet in South parts.

Carolinas, Georgia, Florida cloudy + showery, quite mild probably turning brighter later.
Gulf states mild, some showers. SW (TX, NM, AZ) turning mild/very mild, dry.
South California mild + mostly bright.
West/NW coast showery + coolish. Rockies cold nights becoming fine + less cold in central parts.
Pacific NW rain/sleet showers especially later.

JANUARY 5-7 Forecast Confidence AB = 80%. **Timing normally to one day; positions approximate.**



Key Weather Development JANUARY 5-7

Solar Factors:

NSF 5-7

Turning quieter & less windy
Cold high pressure centred over North of West USA generally shrinks as Mexico low moves North and shallow low develops on Eastern seaboard.

Quite active low far NE.
Light powdery snow far NE USA.

Great Lakes + most of Midwest heavy sticky snow.

SE (NC/SC, GA, parts Florida) becoming showery, mostly cloudy, quite mild.

Sleet/rain boundary moves north.
Gulf states mostly mild with a few showers, variable sky.

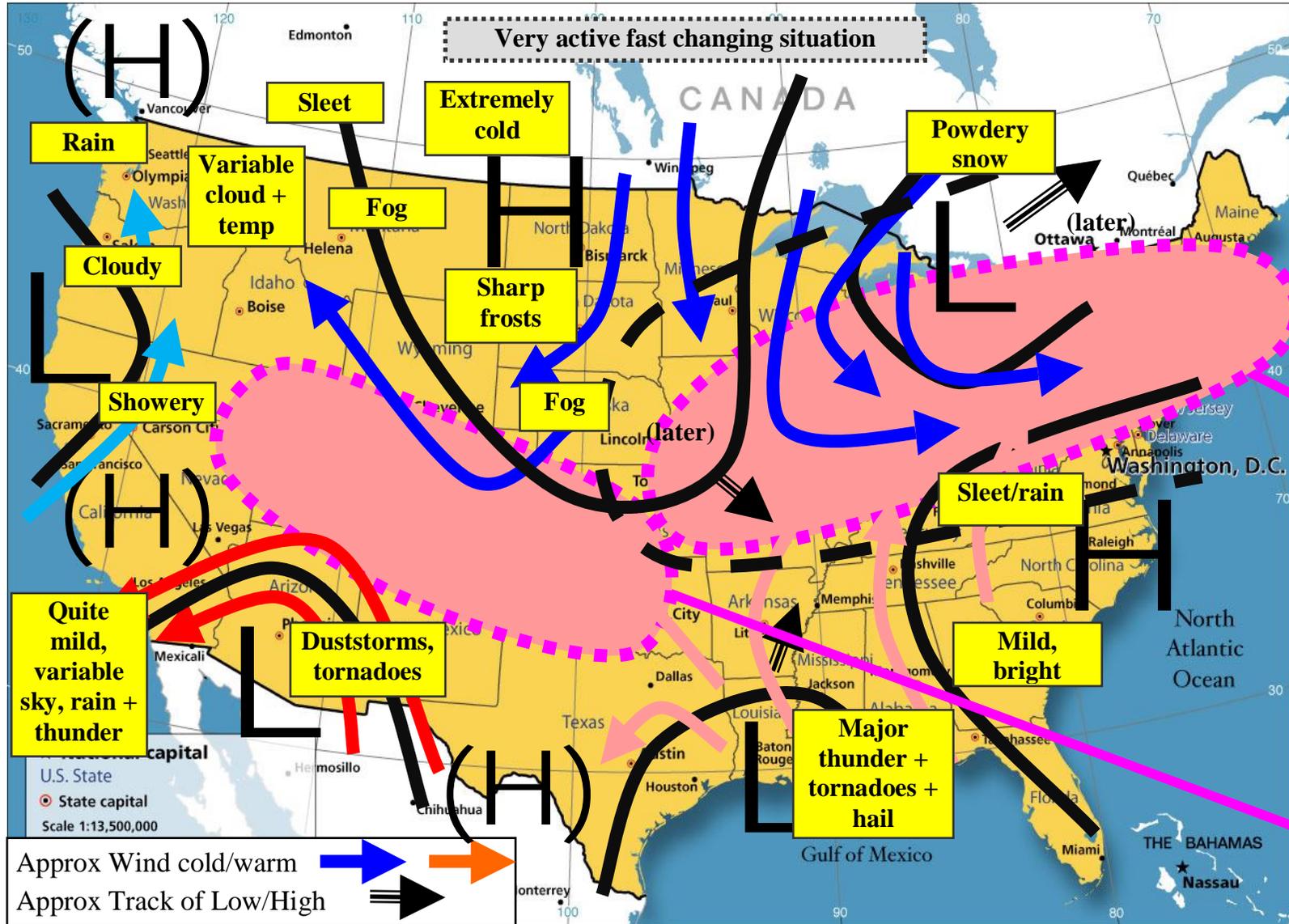
SW (TX, NM, AZ) very mild, some showers possible, variable sky.

South California probably mild & dry with variable sky.

West/NW coast dry, Vancouver bright.

North of centre West and centre USA cold, dry, very sharp fronts, foggy mornings, bright afternoons in most parts.

JANUARY 8-12 Forecast Confidence A = 85%. Timing normally to one day; positions approximate.



Key Weather Development JANUARY 8-12

Solar Factors:
R5 8-10; R3 11-12

A very active fast changing situation

High pressure generally remains centered in West half of North USA and extends towards SE with variable active lows moving from Gulf / SE to NE.

Active lows West Mexico and West coast USA.

Massive snowfall, blizzards, white-out and thundersnow in huge swathe of USA: most of Great Lakes, Midwest and Central-East + NE USA, especially active 8-10th.

Sleet/rain boundary to South moves North later in period.

Georgia/Florida becoming mild + bright (especially later).

Gulf states + East TX major thunder and tornadoes + giant hail (espec 8-10th).

SW parts dust storms + tornadoes espec 8-10th.

South California quite mild with variable sky, rain + thunder (espec 8-10th).

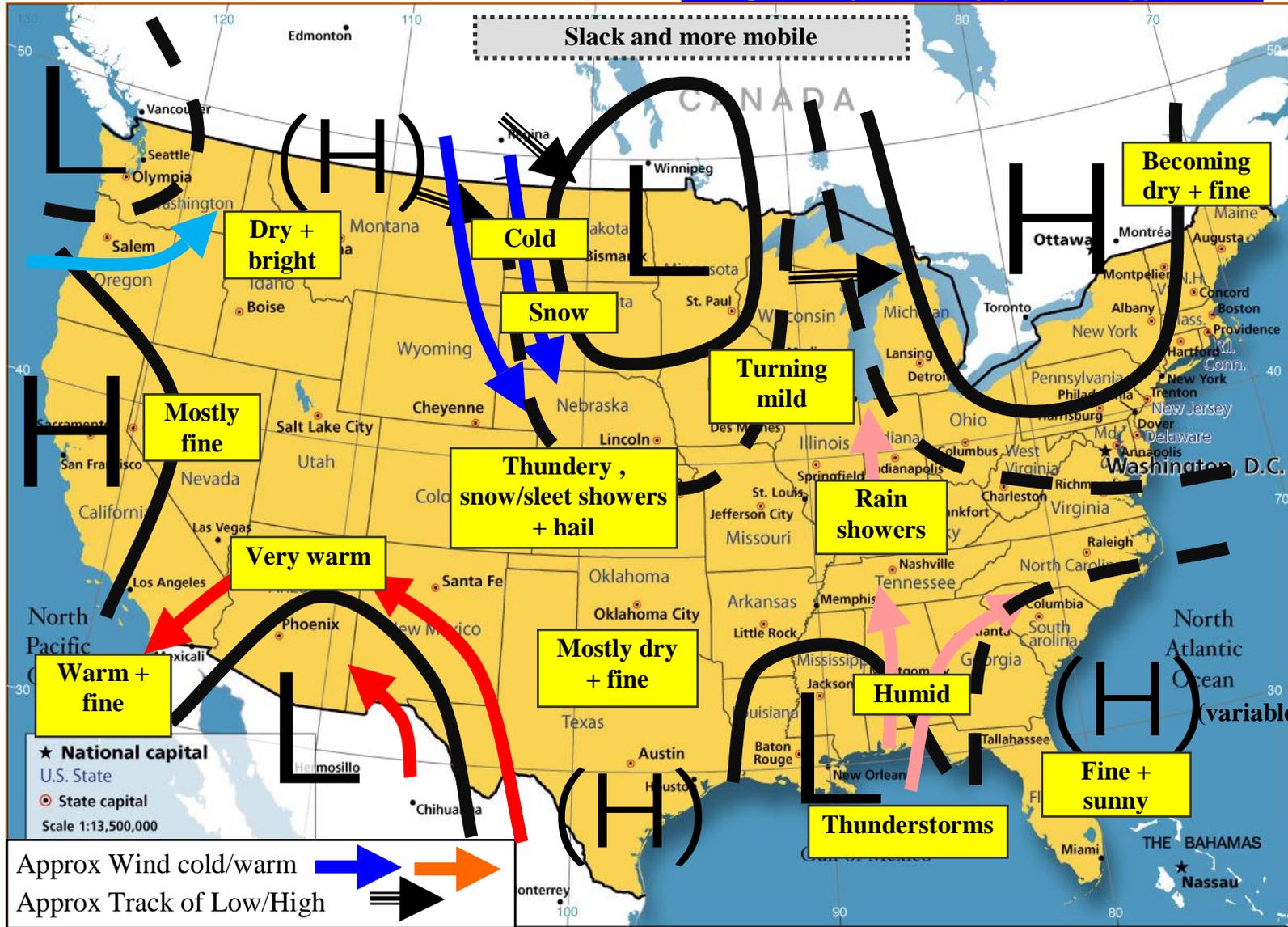
West coast showery.

Vancouver showery then brighter.

South/Central Rockies/CO heavy snow + thundersnow + large hail.

West North central parts dry, extremely cold, sharp frosts and fog.

JANUARY 13-15 Forecast Confidence B = 75%. Timing normally to one day; positions approximate.

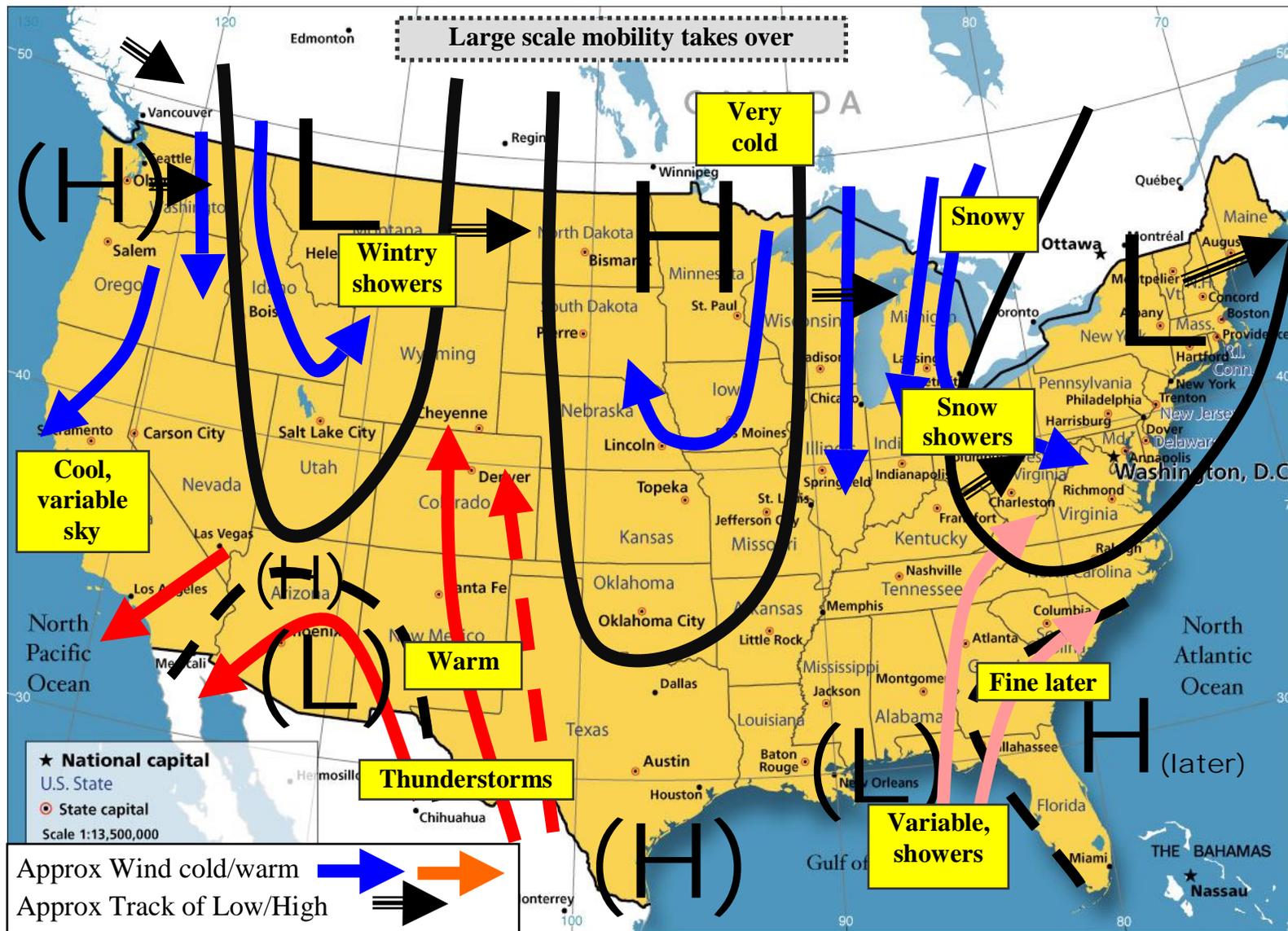


Key Weather Development JANUARY 13-15

Solar Factors:
NSF 13-14; R3 15

Becoming much quieter with less wind snow and rain
High pressure to North of West moves East and a low from NW follows, in a new quasi-mobile situation.
High probable on West coast.
Low West Mexico. Low Gulf.
Great Lakes + NE becoming dry and fine as old low moves away NE + new high moves in.
Florida + Georgia becoming mostly fine, sunny and quite warm.
Gulf states humid and thundery with sunny periods.
Texas mostly dry, fine and warm.
SW (NM, AZ) very warm, mostly sunny/bright.
S California warm + mostly fine.
West + West Rockies mostly fine and dry.
Vancouver variable.
North of West half USA cold with light snow showers on icy surfaces
VERY DANGEROUS.
West Great Lakes probably turns bright then more cloud but mild later.

JANUARY 16-20 Forecast Confidence B=75% **Timing normally to one day; positions approximate.**



Key Weather Development JANUARY 16-20

Solar Factors:

R3 15-16; R3 17-18; NSF 19-20

General large scale West to East mobility takes over
A march of "thick sandwich" highs and lows across North USA with largely stationary low pressure over (West) Mexico and higher pressure South Texas. Confused state in Gulf but Florida probably high pressure later.

Great Lakes + NE largely cold and snowy (espec 17-18th) some drifting but not extreme.

SE + Florida variable showers becoming fine later.

West Gulf/West TX mostly fine+dry.

SW states very warm with thunderstorms and hail 15-18th, quieter and warm later in period.

South California warm with variable sky + showers then fine and dry.

West coast cool with variable sky.

Vancouver variable, brighter later.

North of West half US variable snow showers – dry – showers (snow), often very cold with sharp frosts.

JANUARY 21-23 Forecast Confidence AB = 80%. Timing normally to one day; positions approximate.

Key Weather Development JANUARY 21-23

Solar Factors:

R5 21-23

An extremely active period probably associated with a stratosphere warming event.*

*A warming of the lower stratosphere which would have followed from a solar driven upper stratospheric warming (just) before mid month

A deep ferocious low tracks from West to Great Lakes and then to NE.

High pressure East coast.

High pressure over most of West builds later and advances Eastwards in a very large scale pattern.

Low pressure Mexico very active.

Low pressure in (West) Gulf.

Extreme blizzards, white out + powdery snow/thundersnow over most of Great Lakes + North of Great Lakes.

Blizzards of thick more sticky snow + thundersnow over whole of Midwest and a large swathe of N/E USA. Tornado development with the thundersnow very likely.

S/East coast mostly dry and brightish/mild.

Gulf states thunder, tornadoes + giant hail.

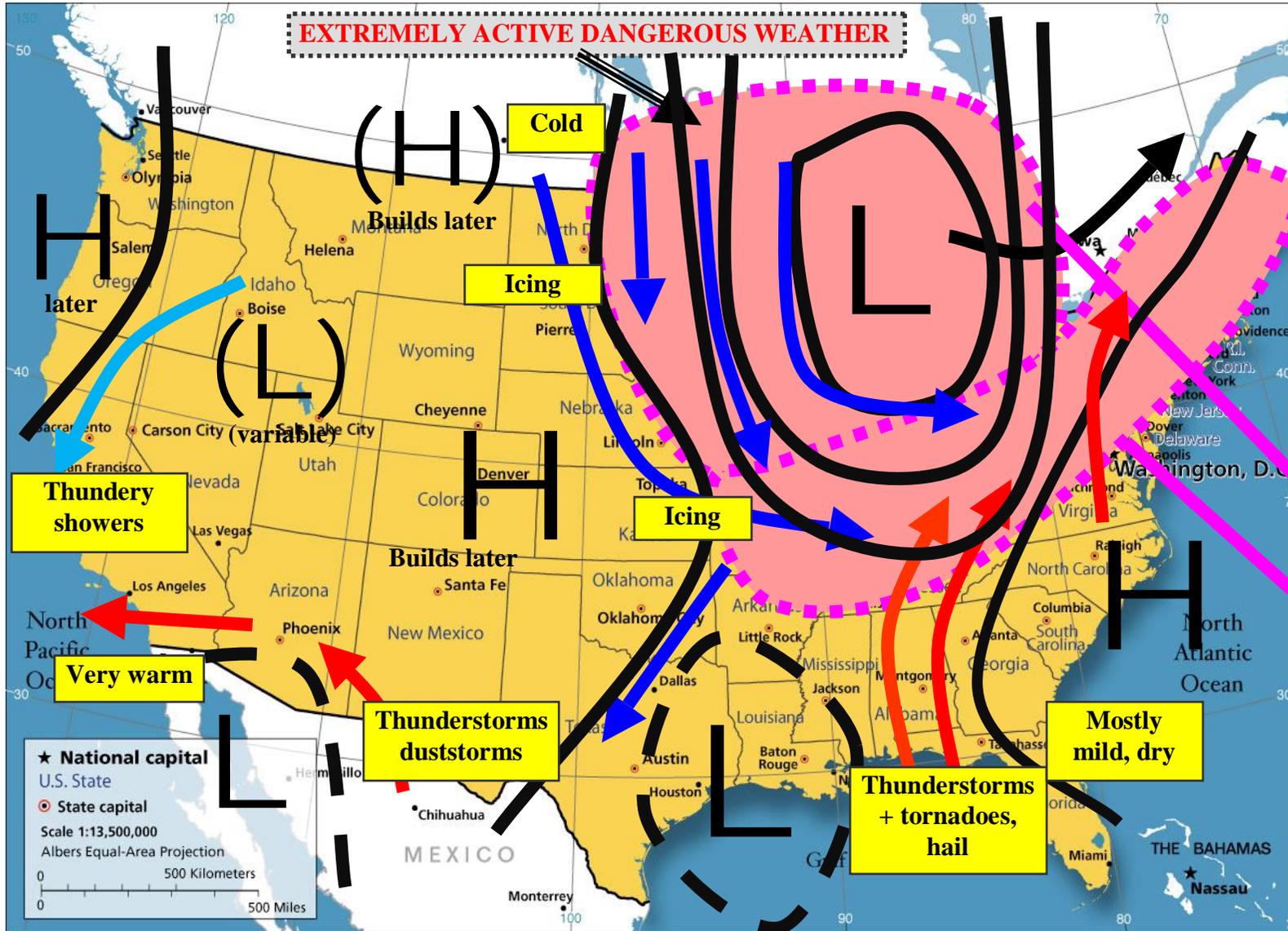
SW USA major thunder + duststorms.

South California very warm + thundery with large hail.

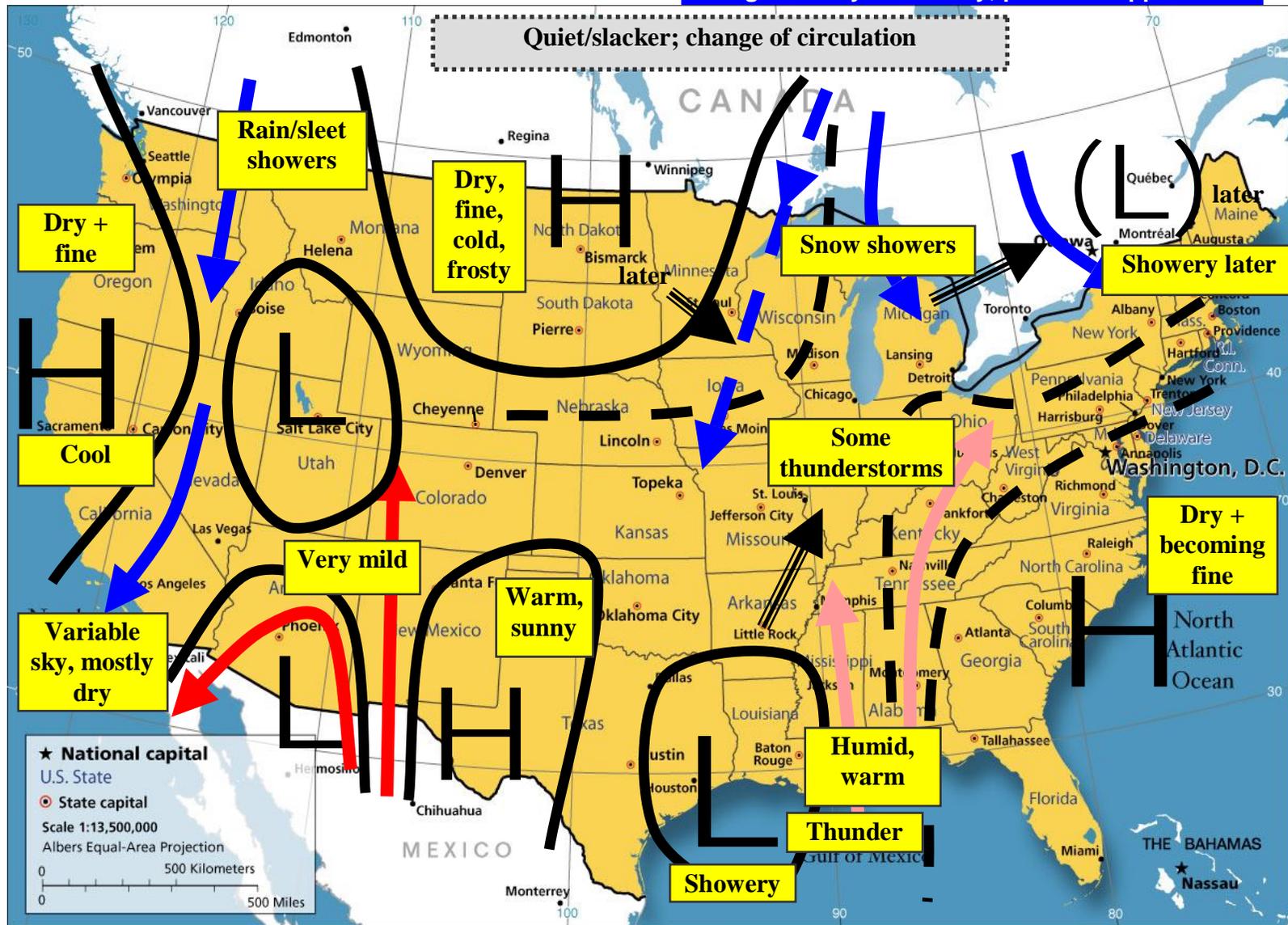
West coast thundery showers.

NW variable then mostly fine/bright.

North of West USA cold, cloudy, icing + ice storms likely.



JANUARY 24-27 Forecast Confidence B = 75%. Timing normally to one day; positions approximate.



Key Weather Development JANUARY 24-27

Solar Factors: NSF

A much quieter/slacker period and a change in circulation pattern.

As active low in previous period moves NE & fills a shallow low from Gulf probably moves NE in a different circulation pattern.

High in North of West USA.

High off East coast.

High off West coast.

Mexico Low.

NE USA light showers, cloudy+cool.

East parts mostly mild, dry & becoming fine.

Gulf states warm + humid with thundery showers (decreasing).

Texas becoming warm & sunny.

SW (NM, AZ) probably very mild/warm with threat of thunder.

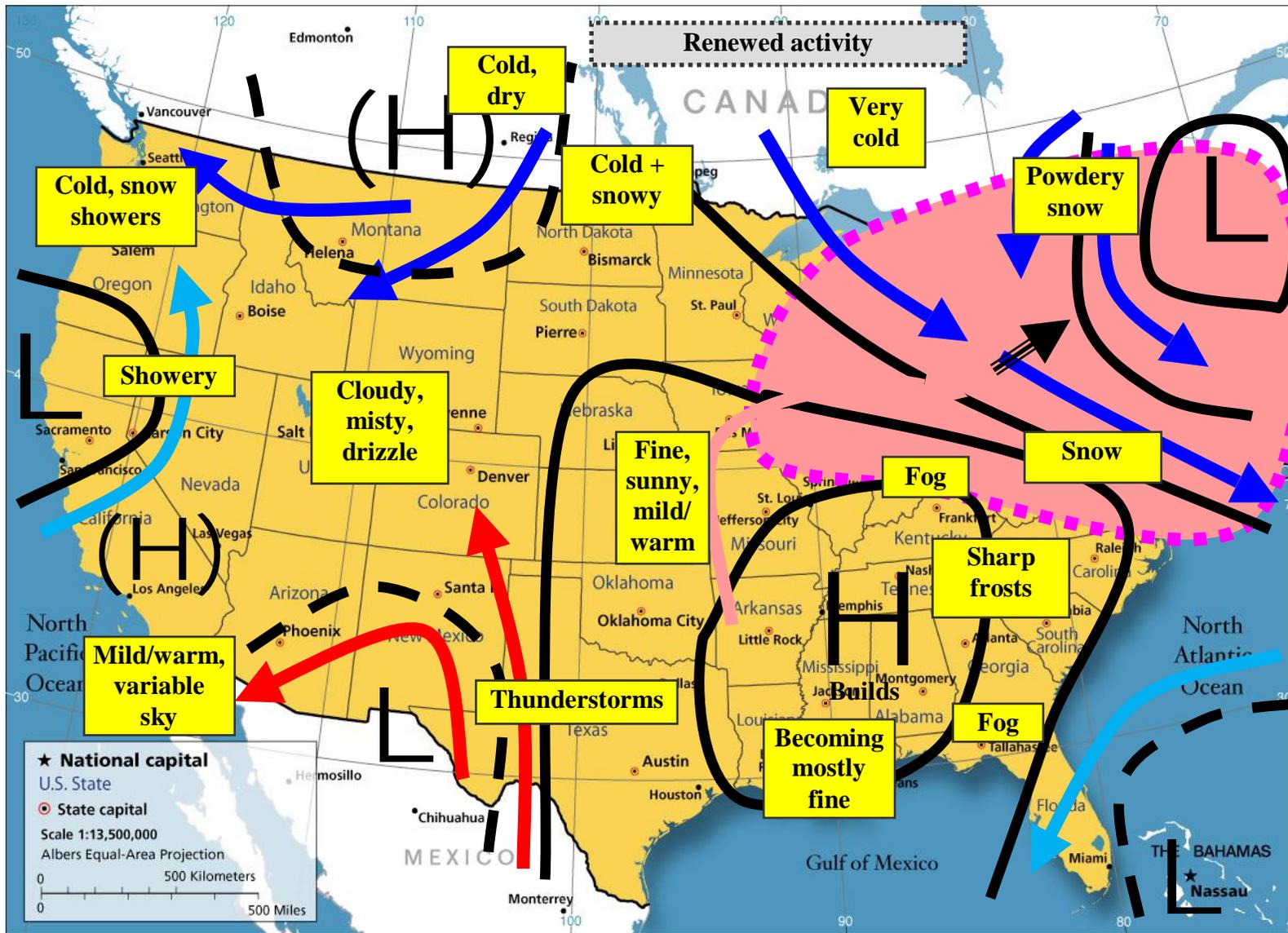
South California variable sky + mostly dry.

West coast dry fine + cool.

Vancouver/Seattle variable sky, rain/sleet showers.

North of West (MT, WY, ND, SD) dry, fine, cold + frosty.

JANUARY 28-31 Forecast Confidence AB = 80%. Timing normally to one day; positions approximate.



Key Weather Development JANUARY 28-31

Solar Factors:

R3 28-29; R3 30-31

Change to ~static pattern in active situation

Lows in SE quarter of USA. moved NE & a static expanding high builds there. Active low in NE with fronts over Great Lakes.

Low Mexico.

Probably low West coast later. High pressure in West-North weakly linked to high SE.

Heavy snow Great Lakes, Midwest + NE USA (powdery in Canada, sticky in New England).

Mostly dry with variable sky + fog SE quadrant of USA.

Showery in (S) Florida.

SW USA very mild/warm, duststorms + some thunder.

South California warm, dry + variable sky.

(Center) West coast showery.

Pacific NW Vancouver, Seattle cold + showery.

N of West half USA cold + snowy.

Central Rockies cloudy, misty & drizzly..