



2022-23 Winter Outlook & Related Tools / Resources

NWS Atlanta – North & Central Georgia Integrated Warning Team Meeting

December 6, 2022

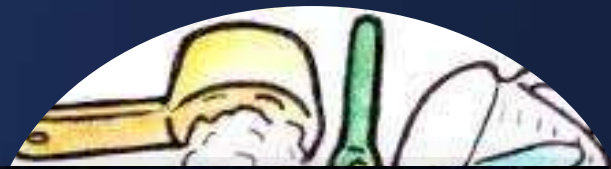
David Nadler
Warning Coordination Meteorologist
NWS Peachtree City/Atlanta
david.nadler@noaa.gov

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Lead Forecaster
NWS Peachtree City/Atlanta
sidney.king@noaa.gov



2022-23 Winter Outlook

What are some weather/climate factors that go into seasonal outlooks??



No
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Average M

EXTREME WINTER PATTERN

PARADE OF STORMS





2022-23 Winter Outlook

- **DISCLAIMER:** Long-range (> 14 days) outlooks are just that – outlooks. They are intended to **provide a big picture - probabilistic view of potential long-wave patterns** that could impact temperatures and precipitation across different regions of the world.

What it is NOT designed for:

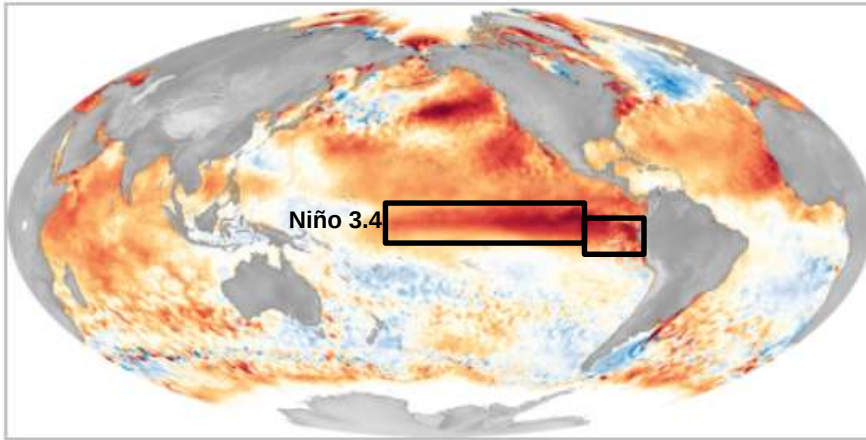
- How many snow/ice storms will we see this winter?
- Will it snow 3" on Christmas day?
- Record cold temperatures in February?
- Early Spring?



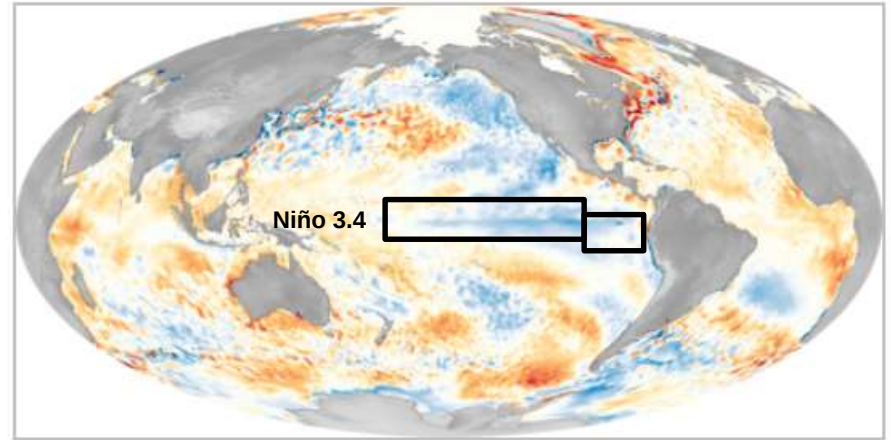


What is El Niño / La Niña (ENSO)?

ENSO = El Niño Southern Oscillation



A very strong **El Niño** in 2016 – large 'red tongue' in equatorial Pacific. (Credit: NOAA/NESDIS)



La Niña event – large blue area in equatorial Pacific. (Credit: NOAA/NESDIS)

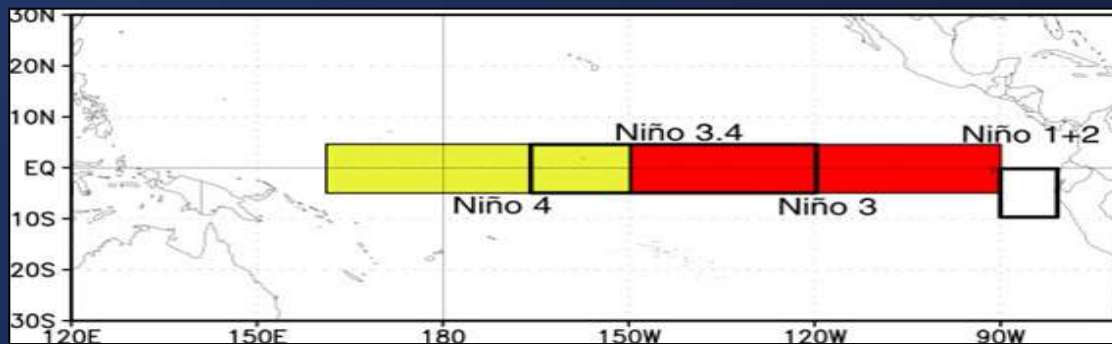
- El Niño is characterized by unusually warm ocean temperatures along the Equatorial Pacific, whereas La Niña is characterized by unusually cold ocean temperatures in the same region.
- Determined over the Niño 3.4 region (5°N - 5°S, 120°W - 170°W)
- These variations from “normal” influence the tropical Pacific ocean atmosphere system, which in turn impacts weather around the globe, including the Southeast US.



NOAA Definitions for ENSO

ENSO = El Niño Southern Oscillation

- The **Oceanic Niño index (ONI)** is based on three-month running-mean Sea Surface Temperature (SST) departures from average in the Niño 3.4 region, and is a principal measure for monitoring, assessing, and predicting El Niño.



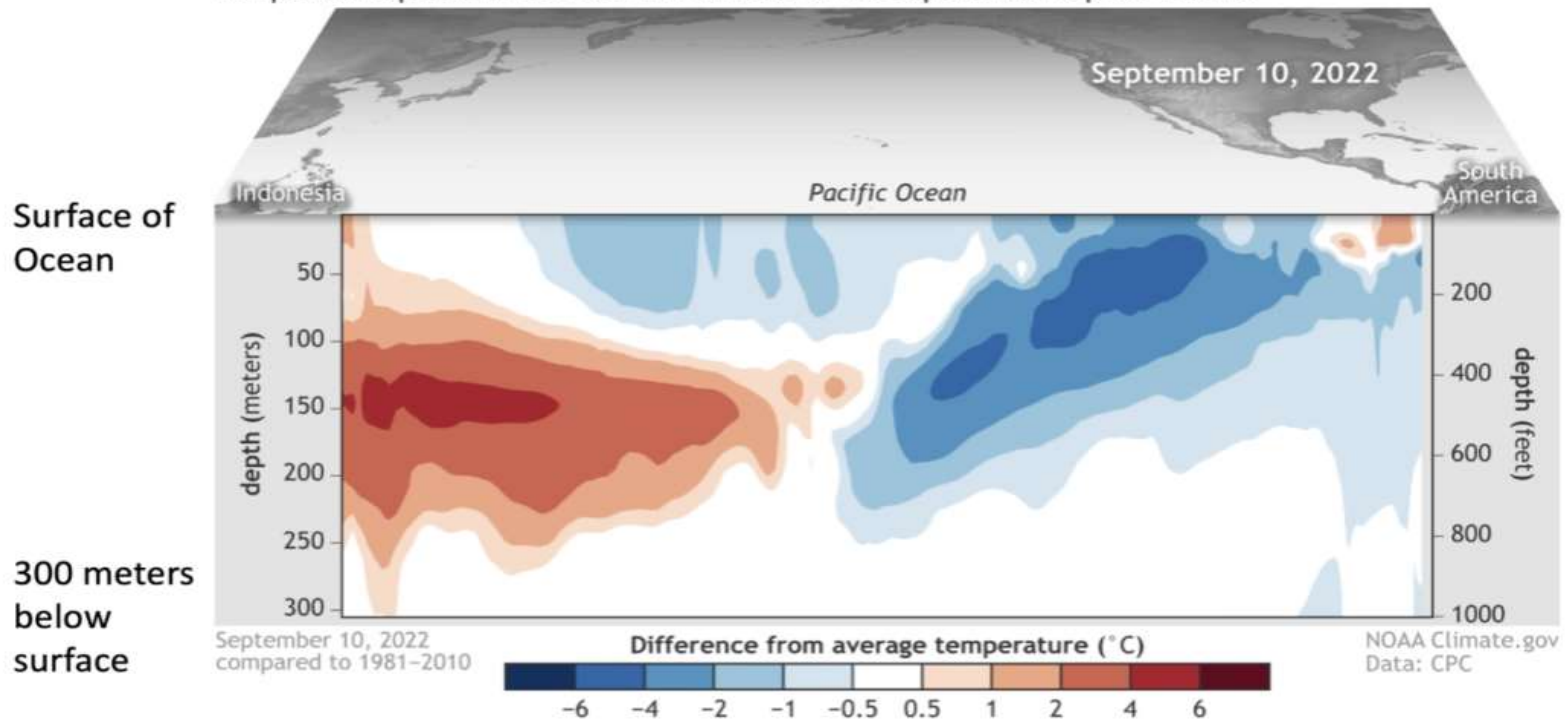
- El Niño:** characterized by a **positive ONI** greater than or equal to +0.5°C.
- La Niña:** characterized by a **negative ONI** less than or equal to -0.5°C.
- By historical standards, to be classified as a full-fledged **El Niño or La Niña episode**, these thresholds must be exceeded for a period of at least 5 consecutive overlapping 3-month seasons.



A closer look at ENSO...

Subsurface Temperature Departures during September and October 2022

Temperature patterns beneath the surface of the equatorial tropical Pacific



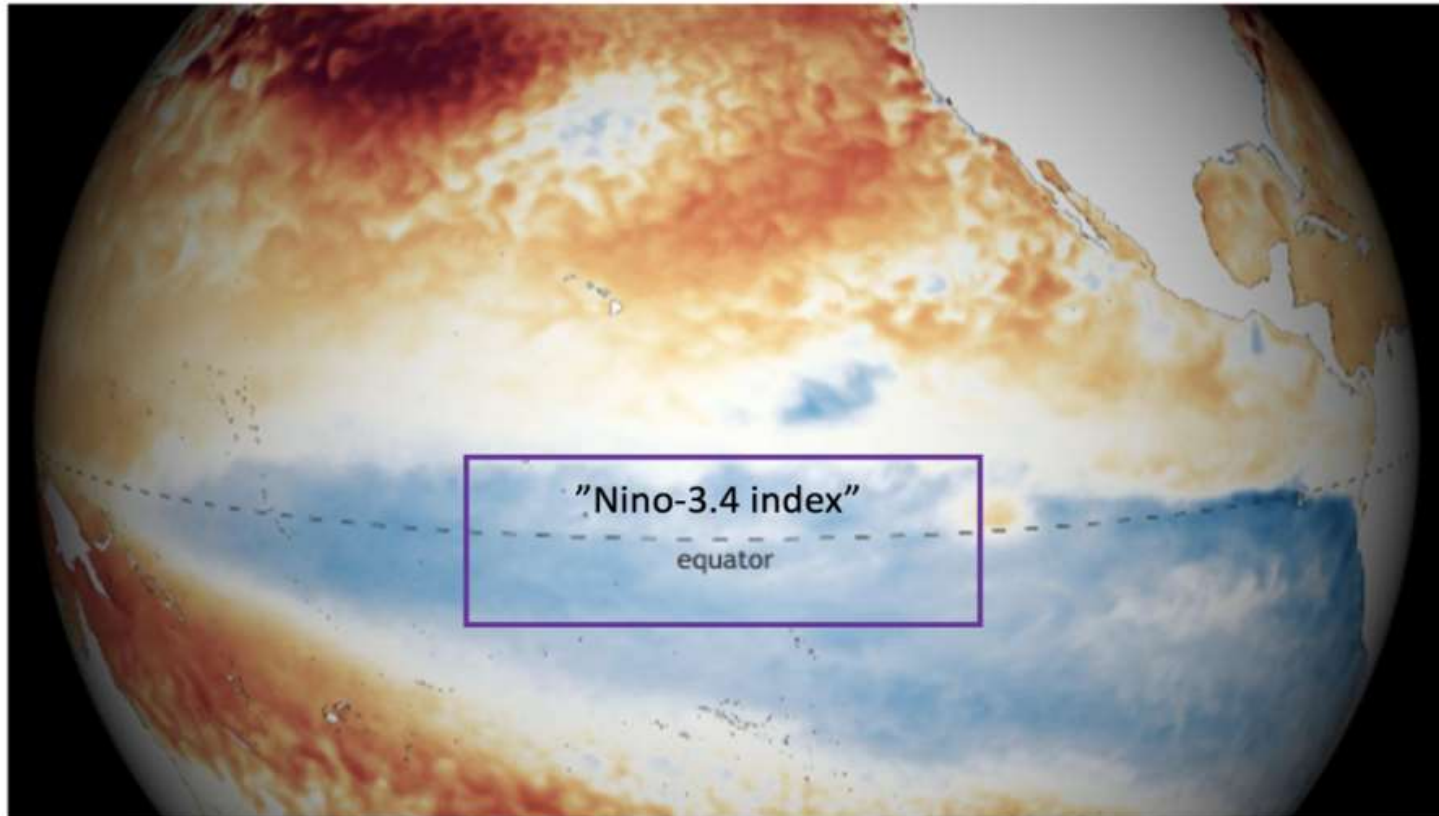
<https://www.climate.gov/news-features/blogs/november-2022-la-niña-update-let's-get-some-exercise>

In a La Niña, more upwelling of cold water over the Niño 3.4 region leads to faster trade winds over the Pacific and a stronger than normal atmospheric circulation.
Creates high pressure in NE Pacific, which changes the flow pattern over the CONUS.



A closer look at ENSO...

October 2022 Sea Surface Temperature (SST) Departures



October 2022
compared to 1985-1993*

Difference from average temperature (°F)



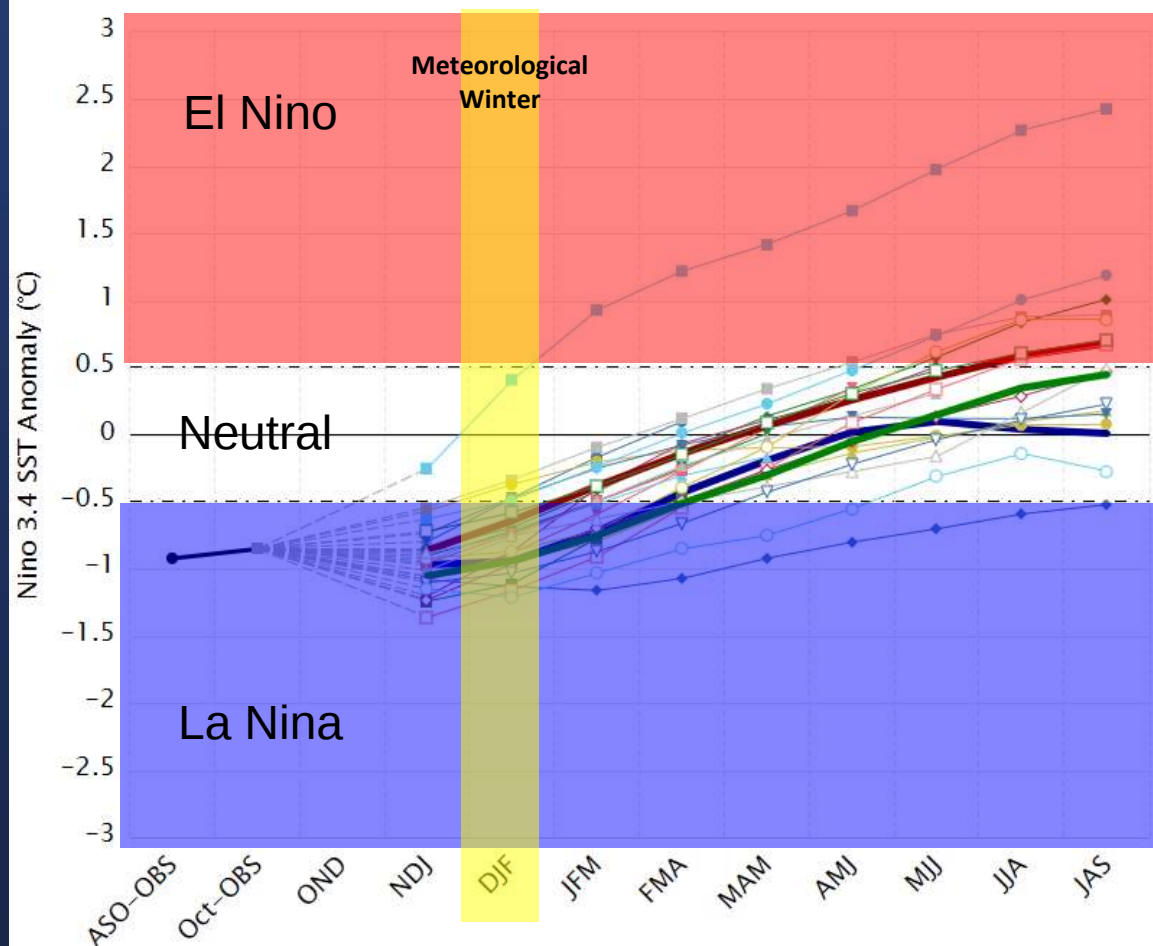
Climate.gov/NNVL
Data: Coral Reef Watch



Latest ENSO Conditions + Forecast

ENSO = El Niño Southern Oscillation

Model Predictions of ENSO from Nov 2022

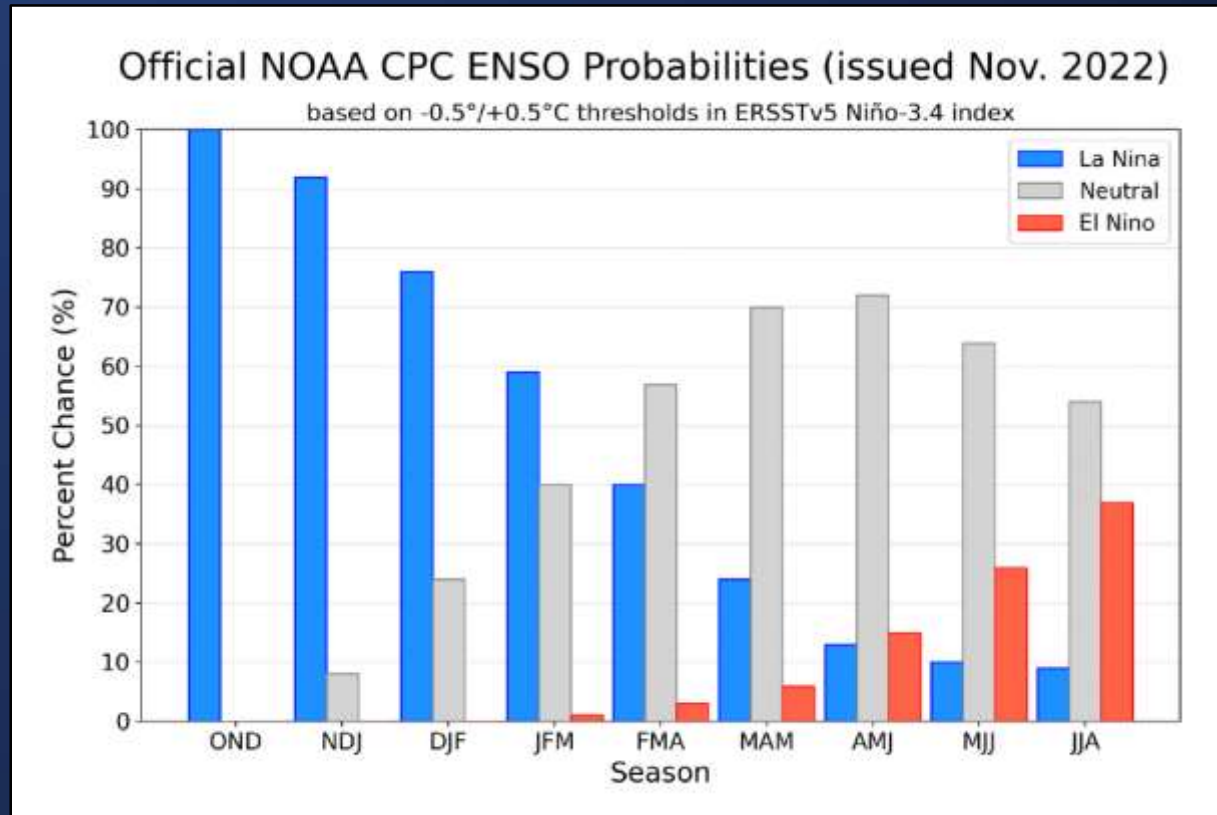


- Third consecutive winter season with weak to moderate La Niña (very rare).
- Pattern increases the chances of seeing drier than normal and warmer than normal conditions over a 3-month period (Dec/Jan/Feb)
- Local climatology shows better chances of seeing “near normal” precipitation & temperatures
 - **Previous “La Niña” winters: 2010-11, 2011-12, 2020-21, 2021-22**



Latest ENSO Conditions + Forecast

ENSO = El Niño Southern Oscillation



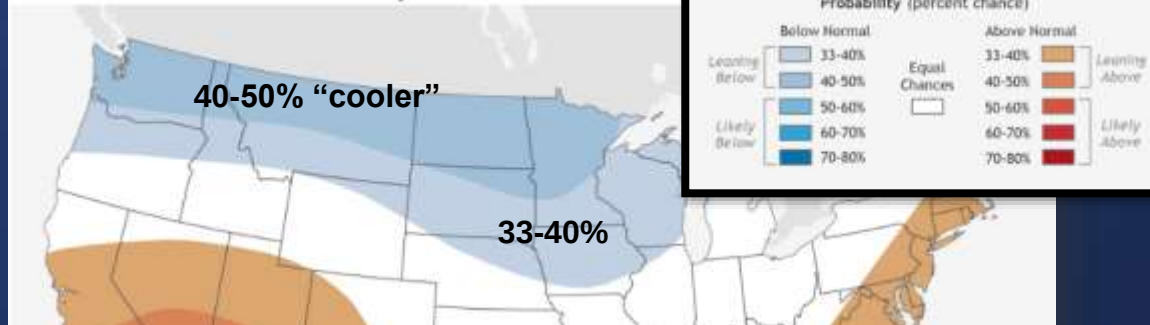
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- Pattern increases the chances of seeing drier than normal and warmer than normal conditions over a 3-month period (Dec/Jan/Feb)
- Local climatology shows better chances of seeing “near normal” precipitation & temperatures
 - Previous “La Niña” winters: 2010-11, 2011-12, 2020-21, 2021-22



NOAA's 2022-23 Winter Outlook

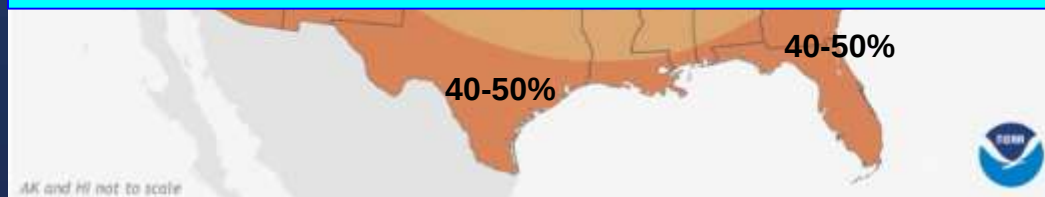
Released October 20, 2022

Winter 2022-23: U.S. Temperature Outlook

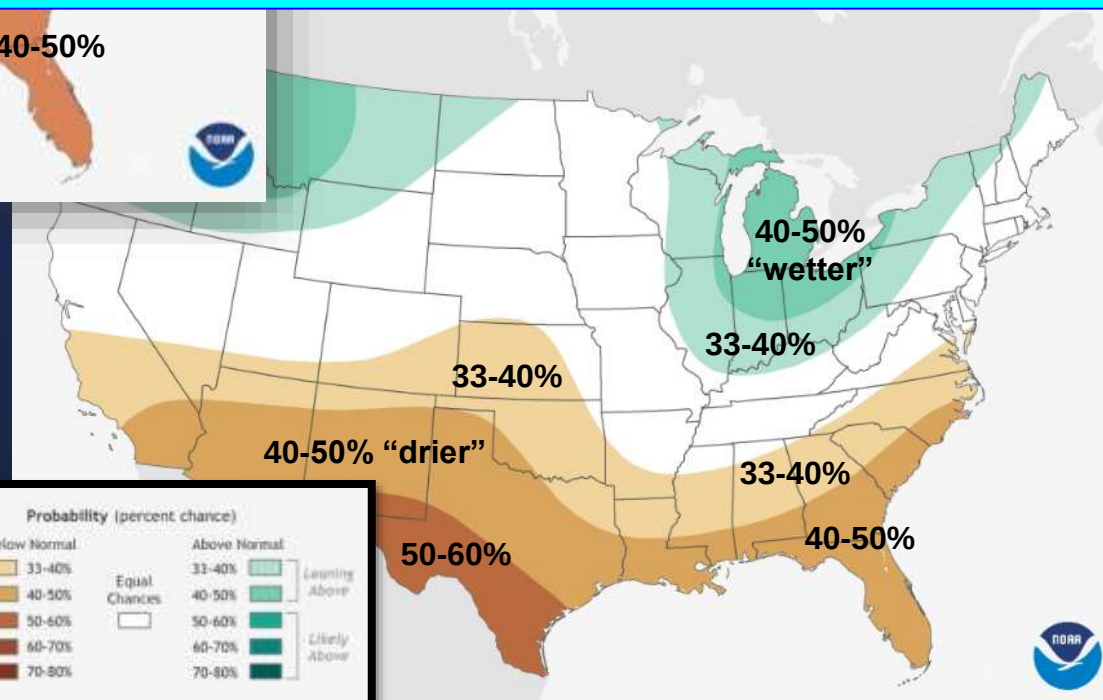


- Outlooks show a slightly higher than "average" chance (>33-40%) of a warmer/drier winter (Dec/Jan/Feb)

Does this look familiar???



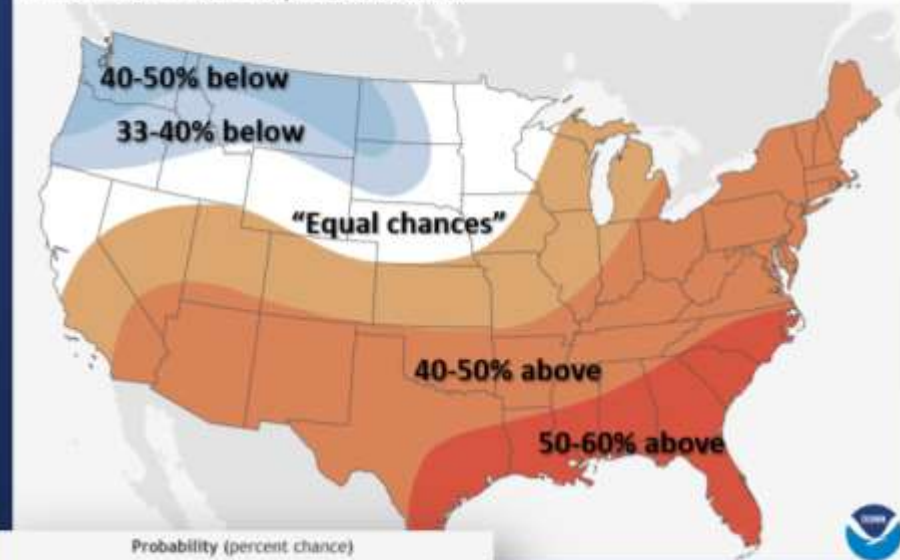
Additional outlooks & information found at the Climate Prediction Center:
www.cpc.ncep.noaa.gov



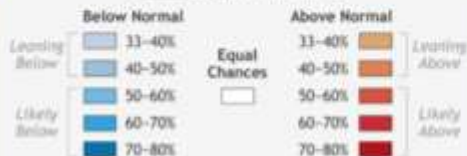


Last year's NOAA (2021-22) Winter Outlook

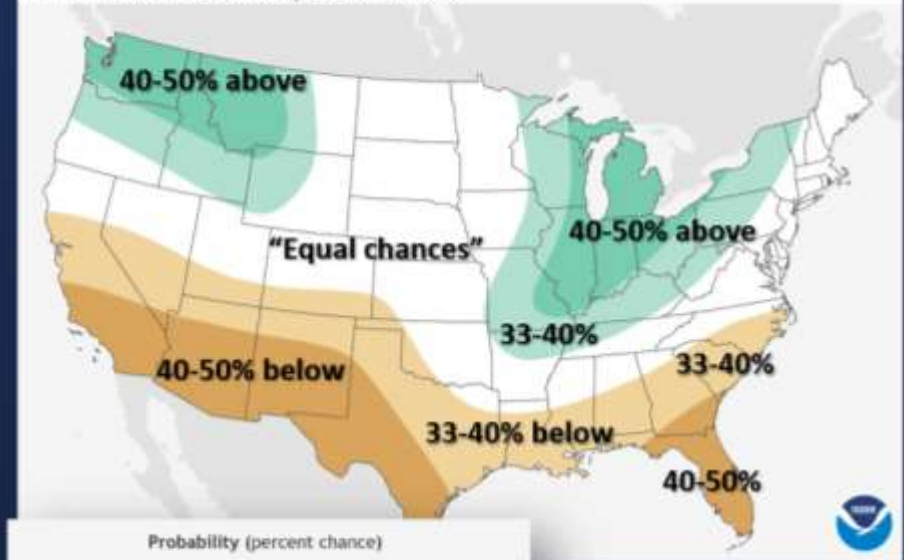
Winter 2021: U.S. Temperature Outlook



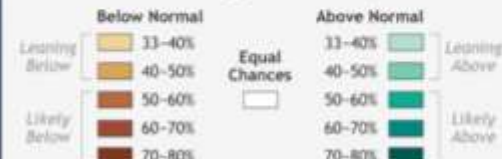
Probability (percent chance)



Winter 2021: U.S. Precipitation Outlook



Probability (percent chance)



- Temperature (warm) signal not as strong as what was being seen last year
- Precipitation signals very similar thanks to La Nina



Speaking of last year... (2021-22 Winter)

Atlanta (ATL) by the numbers (December 2021 – February 2022):

- Average Temperature (includes max & min temps) = **50.7 F** (+3.8F above normal)
 - **6th warmest on record (since 1878) !!!**
- Average Max Temperature = **60.2F** (+4.1F above normal / 5th warmest on record)
- Average Min Temperature = 41.2F (+3.6F above normal / 11th warmest on record)
- Highest temperature = 78F
- Lowest temperatures = 26F
- Total precipitation (3-month period) = 14.74" (52nd wettest on record)
 - Actually ended up above normal // 13.71 = seasonal average (1991-2020)
- 2021-22 Snowfall = 0.3 inches (-1.9" below normal)



Other Weather Group “outlooks”

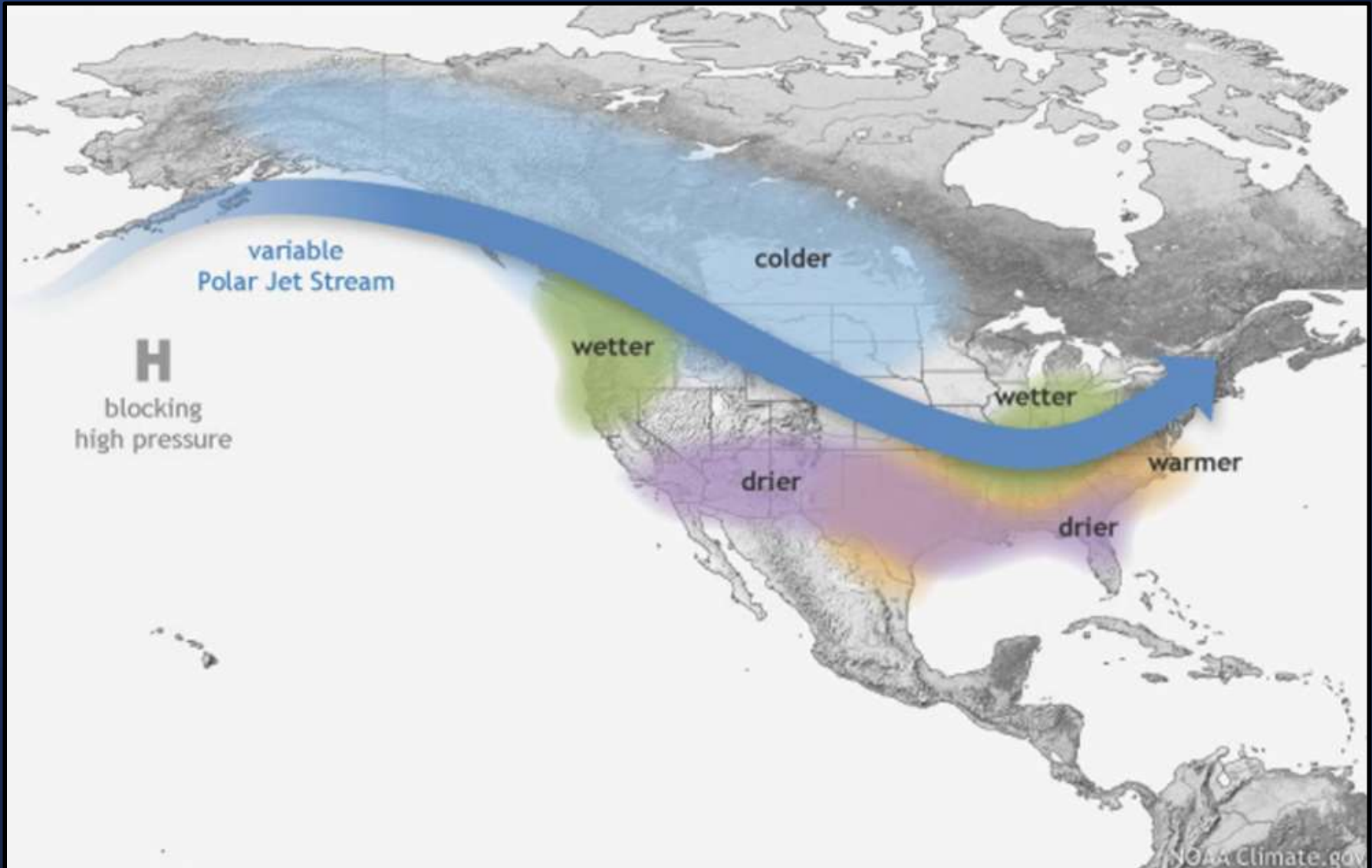


Weatherbell





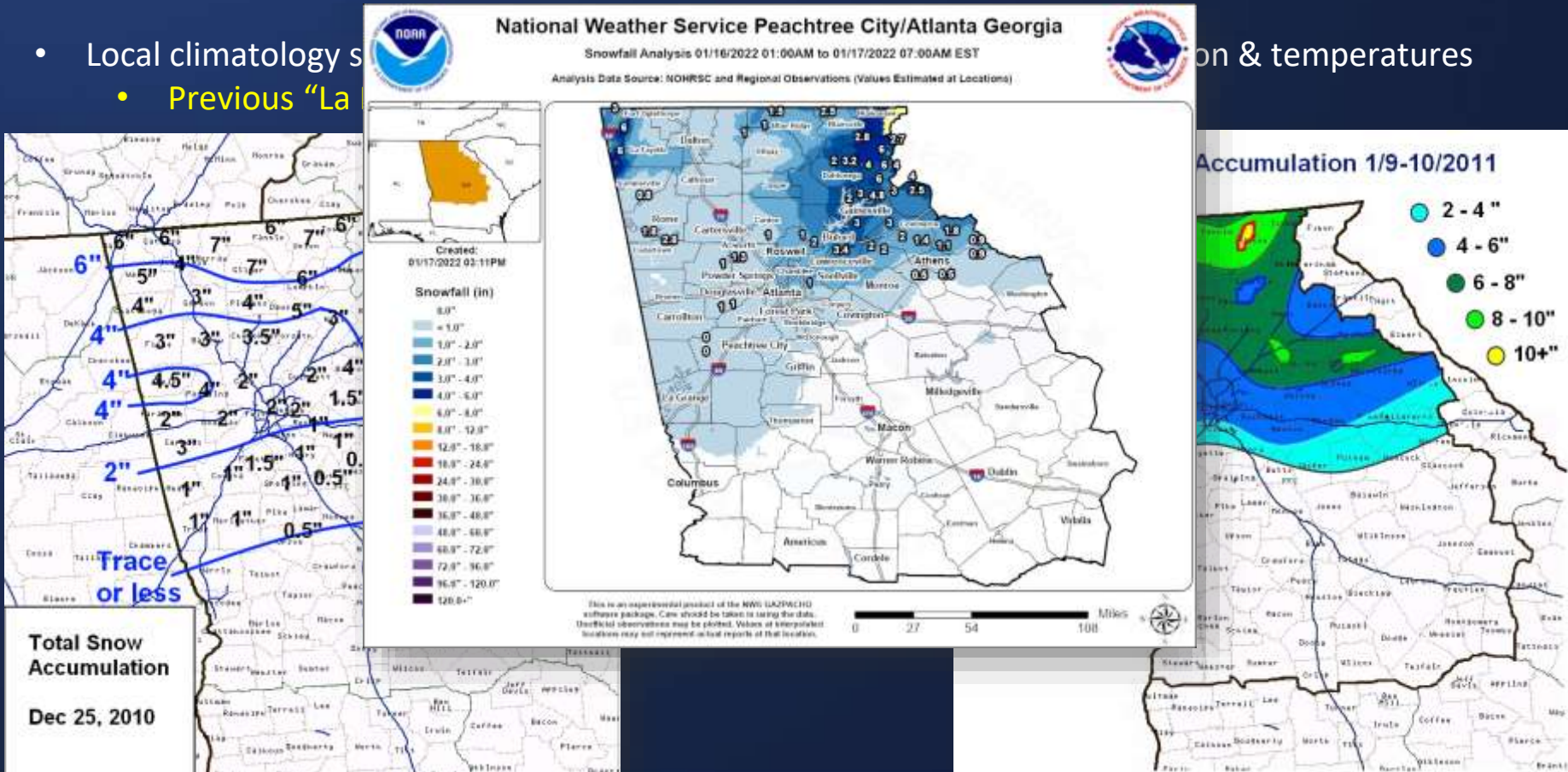
Winter La Niña Pattern





How can “La Niña” patterns influence our Winter?

- Third consecutive winter season with weak to moderate La Niña.
- Pattern increases the chances of seeing drier than normal and warmer than normal conditions over a 3-month period (Dec/Jan/Feb)
- Local climatology shows
 - **Previous “La Niña”**

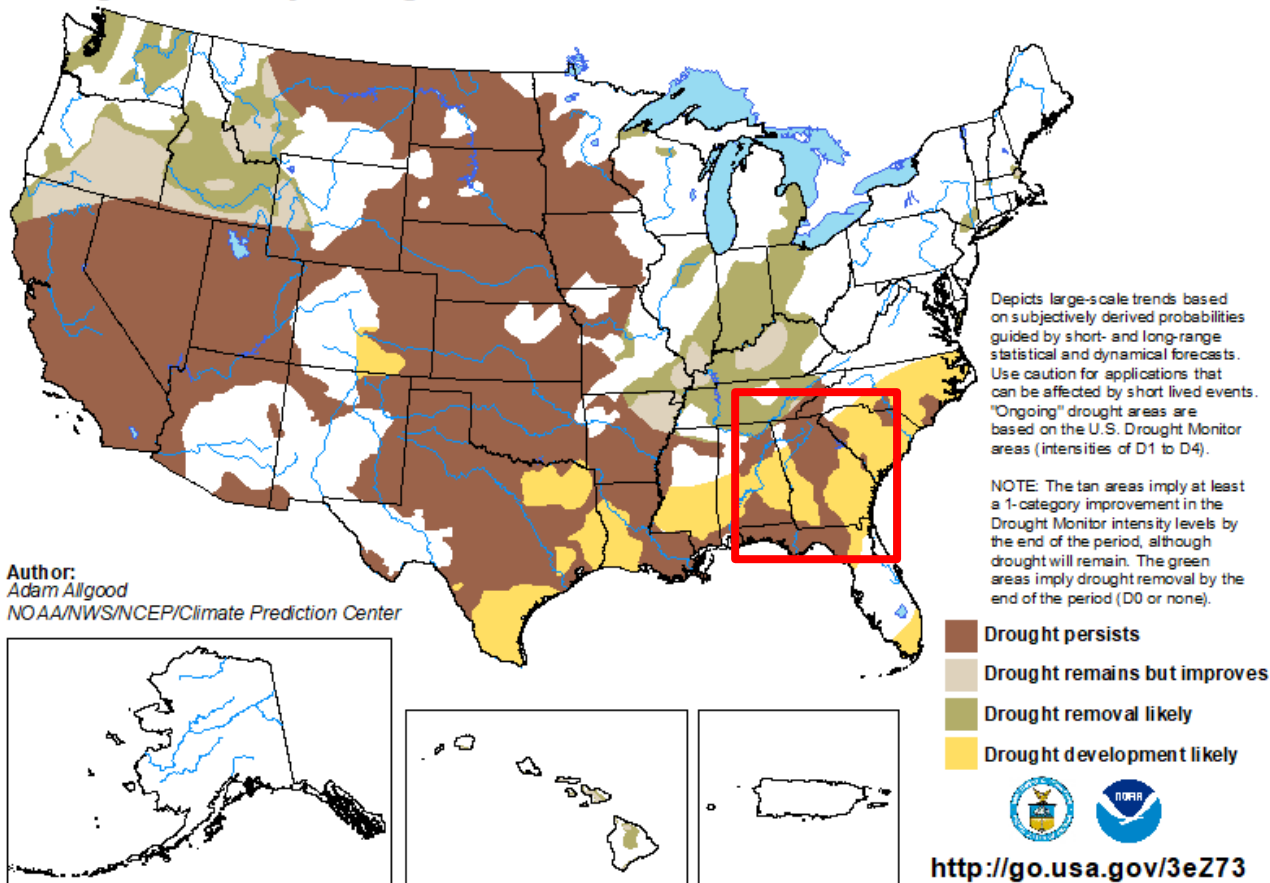




Seasonal Drought Outlook (Dec-Feb)

U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for November 17, 2022 - February 28, 2023
Released November 17, 2022

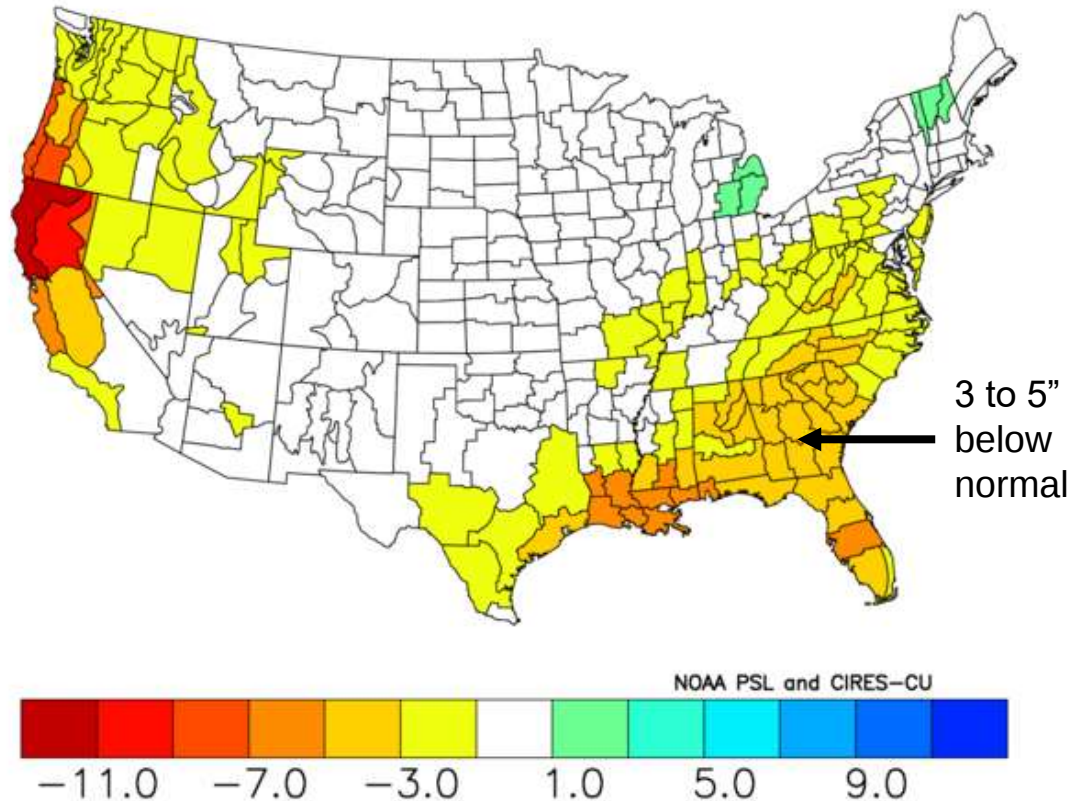


- Persistent dry/warm conditions resulted in a rapid and widespread development of Autumn drought conditions in GA.
- Forecast for the DJF period is heavily influenced by the high potential for **La Niña conditions** to persist.
- Climate anomalies associated with cold ENSO events favor drier and warmer conditions along the southern tier of the CONUS



Seasonal Drought Outlook (Dec-Feb)

NOAA/NCEI Climate Division Composite Precipitation Anomalies (in)
Dec to Feb 1975-76, 2000-01
Versus 1991-2020 Longterm Average



Actual precipitation data (departure from normal) taken from past winter seasons following 3rd consecutive La Nina "winter"



So... what does this all mean for me??

- Better than average chance we'll be warmer than normal (again) but not as warm as last Winter
- Near to slightly below normal precipitation (based La Nina research)
- North GA (north of I-20)... be ready for at least 1 to as many as 5 notable snow and/or ice storms (especially mountains & typical "wedge" zone across northeast GA)
- Central GA... be ready for 1-2 snow/ice events (> Trace)
- Coldest time of year = January to mid February
- Best time/month to see significant ice storms ☐ February



No matter the outlook... must be ready for this!





NWS Atlanta -- North & Central GA Integrated Warning Team Meeting

TOOLS & RESOURCES



Breaking down Weather Support

- **Day-to-day updates & outlooks:**
 - Local Decision Support web pages
 - Hourly Weather Page (planning)
- **Higher-impact events:**
 - Emails / “Live” Webinar Briefings
- **Situational Awareness:**
 - GDOT Road Sensors
 - EDD / State weather page
 - Radar
- **Communications:**
 - NWSChat
 - Phone / Email
- **Other support:**
 - Site-specific (SPOT) Forecasts (SAR, HAZMAT, Outdoor events, etc.)
 - Web graphics / Social Media (www.weather.gov)





Decision Support Page

<https://www.weather.gov/ffc/dss>

Contact info + Forecast
support pages (interactive)

Weather Briefings saved here

Weather forecasts & guidance

- Severe
- Heavy rain/Flood
- Tropical
- Fire weather
- Winter

Decision Support Page (North and Central GA)

[Weather.gov](#) > [Peachtree City, GA](#) > Decision Support Page (North and Central GA)

Peachtree City, GA
Weather Forecast Office

[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#) [Rivers and Lakes](#) [Climate and Past Weather](#) [Local Programs](#)

NWS Atlanta Decision Support Services

Immediate (24/7) Support

NWS Atlanta Operations:
770-282-2920 extension 4

NWSChat Interface:
Primary Chat Room - [ffcchat](#)
About [NWSChat](#) [NWSChat Live](#)

[f NWS Atlanta](#) [t @NWSAtlanta](#)

Forecast Options (Choose Location)

- [Hourly/Daily \(Point\) Forecast](#) **updated daily**
- [Site-specific \(SPOT\) Forecast Request](#)
- [NWS Radar](#)
- [Fire Weather Dashboard](#)

Briefings

No briefings are currently available.

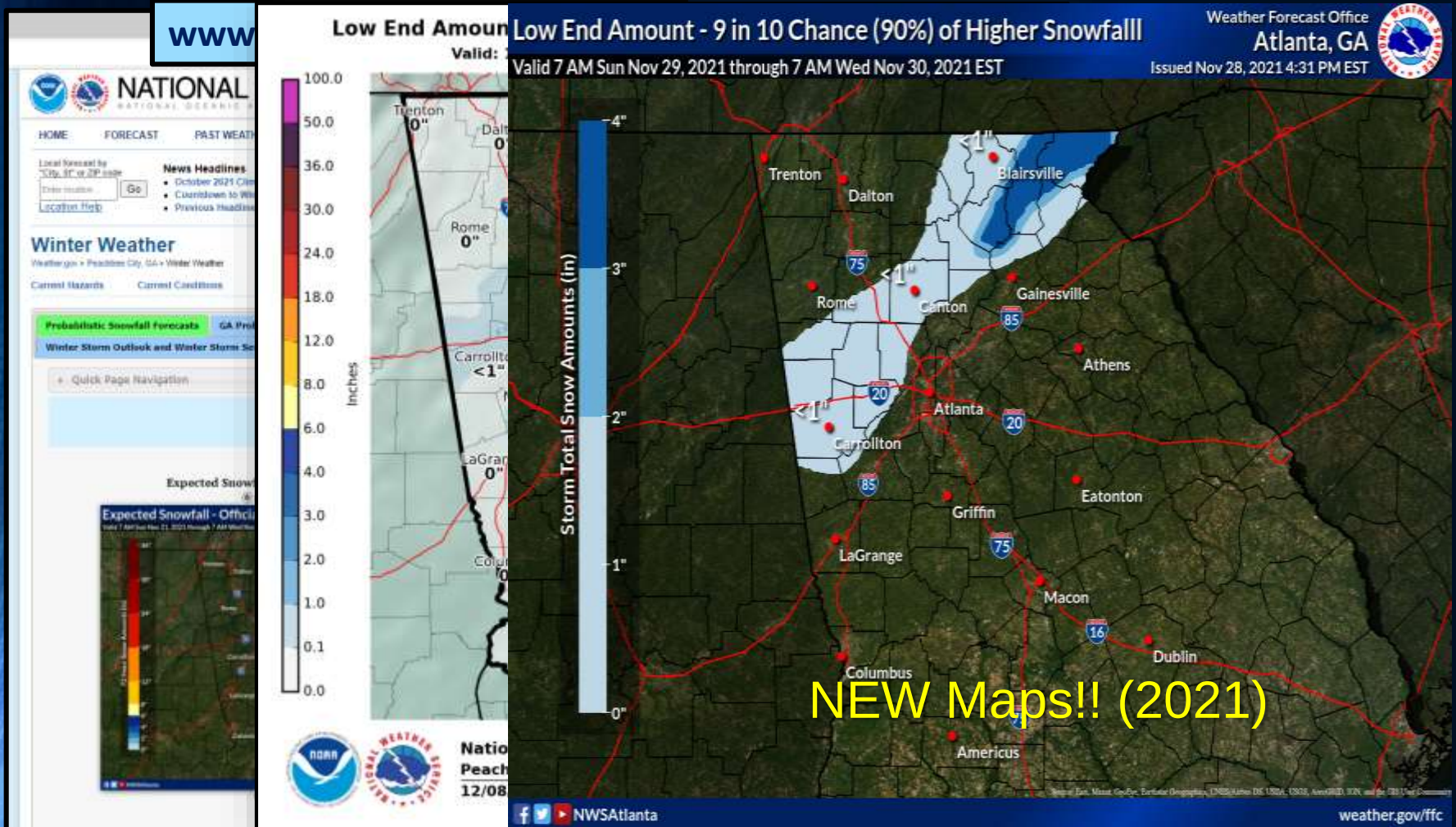
Please try again later





Winter Snow/Ice Probabilistic Forecasts

Provides customers and partners a range of snowfall possibilities, better communicate forecast uncertainties, and enhance Decision Support Services (DSS) during winter weather events.





Winter Snow/Ice Probabilistic Forecasts

www.weather.gov/ffc/winter

- Creates “goal posts” based on the official NWS snowfall forecast
- It is **NOT** a worst-case scenario!
- The Low End and High End graphics are communicated as the minimum (expect at least this much) and maximum (potential for this much) snowfall, respectively, while the official (NWS) snowfall forecast is communicated as the “most likely” snowfall amount
- Graphically displays probability (% chance) of seeing a certain amount of snow (i.e. 1”, 2”, 4”... etc.)
- This is also shown in tabular format – can select county to get list of towns/cities



Snowfall Totals by Location

Experimental - Leave feedback

11/22/2018 0700PM to 11/25/2018 0700PM

What's this?

County:

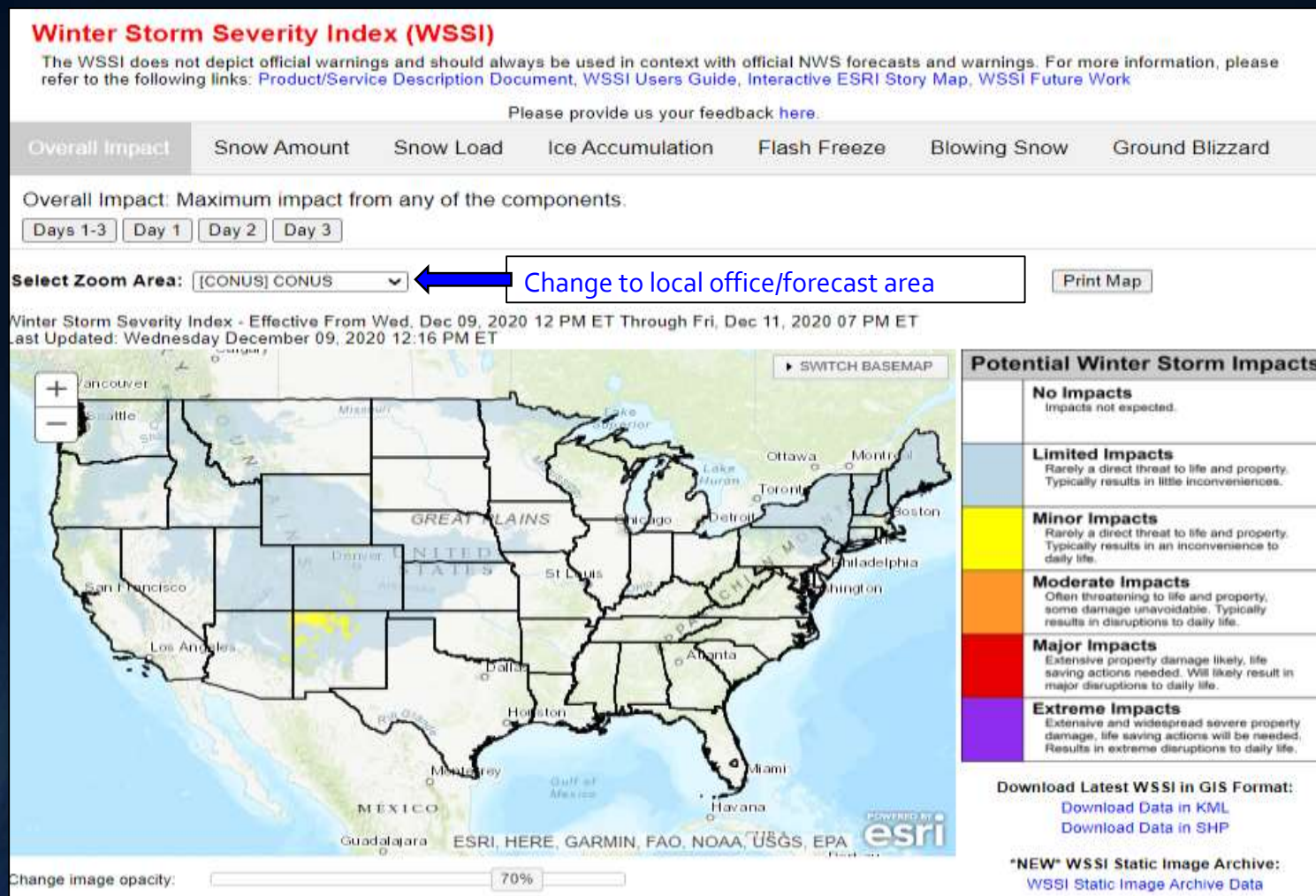
For cities in Baldwin, GA county

Location	Snow Amount Potential			Chance of Seeing More Snow Than						
	Low End Snowfall	Expected Snowfall	High End Snowfall	>=0.1"	>=1"	>=2"	>=4"	>=6"	>=8"	>=12"
Meriwether, GA	0	0	0	0%	0%	0%	0%	0%	0%	0%
Milledgeville, GA	0	0	0	0%	0%	0%	0%	0%	0%	0%



WSSI – Winter Storm Severity Index

<https://www.wpc.ncep.noaa.gov/wwd/wssi/wssi.php?id=FFC>



Forecasts the potential impacts of winter storms including tree damage, property damage, transportation impacts and disruptions in your community.



WSSI – Winter Storm Severity Index

<https://www.wpc.ncep.noaa.gov/wwd/wssi/wssi.php?id=FFC>

Overall Impact

Snow Amount

Snow Load

Ice Accumulation

Flash Freeze

Blowing Snow

Ground Blizzard

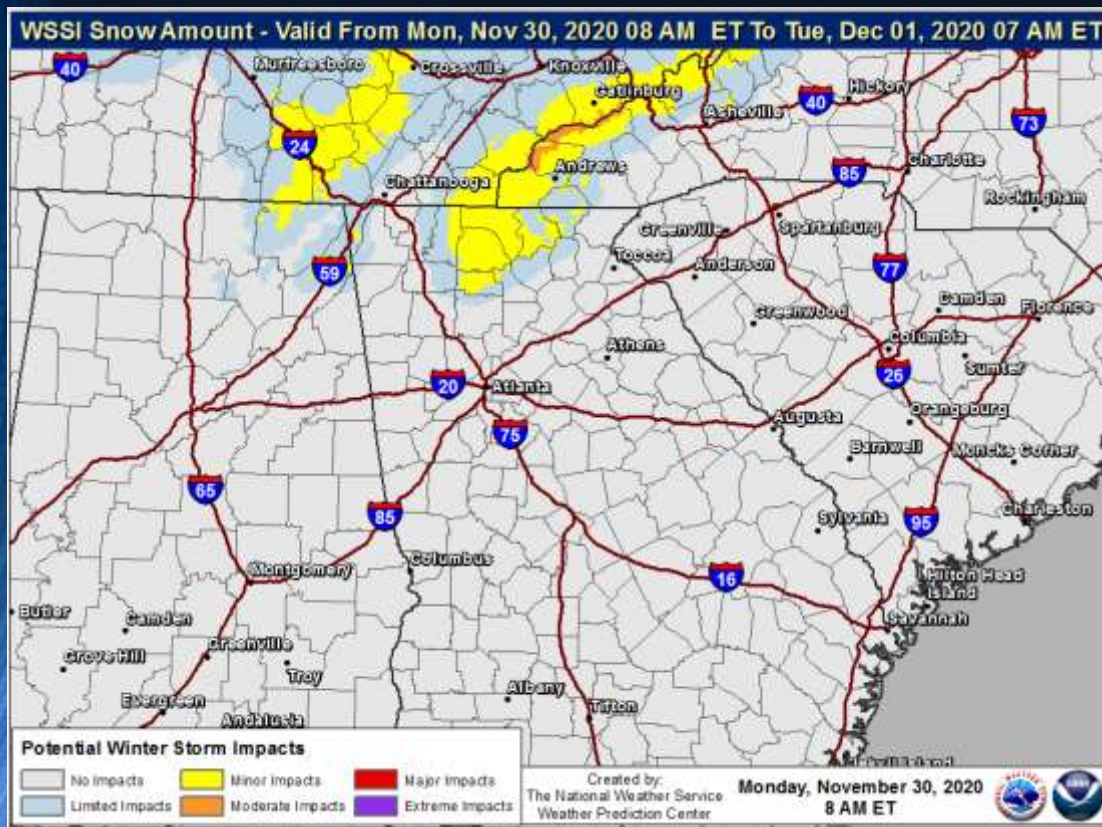
Overall Impact: Maximum impact from any of the components.

Days 1-3

Day 1

Day 2

Day 3



- Identifies / rates 6 components
 - snow amount
 - snow load
 - ice accumulations
 - flash freeze
 - blowing snow
 - ground blizzard
- Graphics for each of the 6 components
- Helps create an all-inclusive Winter Storm Severity Index

What's the difference between 2" snow in Atlanta vs. 2" snow in the mountains of Wyoming?
WSSI designed to provide a more simplified reasoning behind this question.



Real-time Weather Observations

63 GDOT Road Weather Sensors: www.weather.gov/ffc/gdot_rwis

*Measures: temp/dewpt/winds/precip/road sfc temp/sub sfc temp***

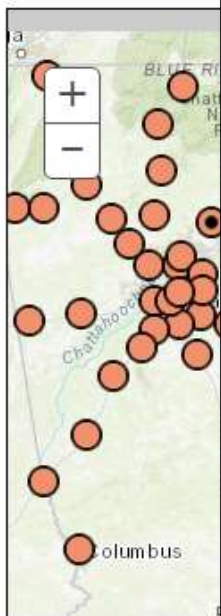
RWIS data from GDOT

Weather.gov > Peachtree City, GA > RWIS data from GDOT

Peachtree City, GA

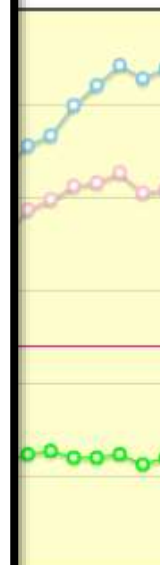
Weather Forecast Office

Current Hazards



(click on point to re

Date (Local)	Temp (°F)	Dew Point (°F)	Relative Humidity (%)	Wind Direction	Wind Speed (kts)	Vsby (mi)	Road Temp (°F)	SubSfc Temp (°F)	Road Surface	1h Pcp (in)	12h Pcp (in)	24h Pcp (in)
11/14 10:12	40	26	50	ENE	5G15	≥ 1.2	47	52	N/A	0.0	0.0	0.0
11/14 10:02	40	26	51	ENE	7G16	≥ 1.2	46	52	N/A	0.0	0.0	0.0
11/14 09:52	41	26	47	ENE	5G11	≥ 1.2	47	52	N/A	0.0	0.0	0.0
11/14 09:42	41	26	48	E	5G11	≥ 1.2	46	52	N/A	0.0	0.0	0.0
11/14 09:32	41	26	48	ENE	4G13	≥ 1.2	45	52	N/A	0.0	0.0	0.0
11/14 09:22	40	26	53	E	6G16	≥ 1.2	43	52	N/A	0.0	0.0	0.0
11/14 09:12	39	26	56	E	4G14	≥ 1.2	43	52	N/A	0.0	0.0	0.0
11/14 09:02	38	26	59	E	5G13	≥ 1.2	42	52	N/A	0.0	0.0	0.0
11/14 08:52	38	26	58	ENE	6G18	≥ 1.2	42	52	N/A	0.0	0.0	0.0
11/14 08:42	38	26	60	ENE	4G15	≥ 1.2	42	52	N/A	0.0	0.0	0.0
11/14 08:32	38	26	60	E	4G13	≥ 1.2	41	52	N/A	0.0	0.0	0.0
11/14 08:22	38	26	58	ENE	5G13	≥ 1.2	41	52	N/A	0.0	0.0	0.0
11/14 08:12	38	26	59	ENE	5G16	≥ 1.2	40	52	N/A	0.0	0.0	0.0
11/14 08:02	38	26	60	ENE	5G16	≥ 1.2	40	52	N/A	0.0	0.0	0.0
11/14 07:52	37	26	61	ENE	6G13	≥ 1.2	39	52	N/A	0.0	0.0	0.0
11/14 07:42	37	26	64	ENE	3G15	≥ 1.2	39	52	N/A	0.0	0.0	0.0
11/14 07:32	37	26	64	E	6G16	≥ 1.2	38	52	N/A	0.0	0.0	0.0
11/14 07:22	36	26	66	ESE	7G18	≥ 1.2	39	53	N/A	0.0	0.0	0.0
11/14 07:12	36	26	65	E	7G17	≥ 1.2	38	53	N/A	0.0	0.0	0.0



10a

☒ AirTemp ☒ DewptTemp ☒ RoadTemp



NWSChat v2.0 (Slack) is coming!!

The screenshot displays the NWSChat v2.0 (Slack) interface. On the left is a dark sidebar with a list of channels and direct messages. The main area shows the #wfo-atlanta-georgia channel. At the top of the channel is a video player showing a dark scene. Below the video are several messages from WxBot, which are automated weather alerts. A message from NWSAtlanta Twitter is also visible, featuring a satellite image of the Appalachian Mountains and the plateau terrain of Tennessee. The bottom of the screen shows a message input field and a list of participants in the channel.

NWS Chat -

- Threads
- Mentions & reactions
- Saved items
- Slack Connect
- More
- Connections
- ext-training-slack
- Add external people
- Priority
- EM testing
- Channels
- announcements-all
- announcements-nwchat-a...
- feedback-nwchat
- help-admin
- help-slack
- ocep-storm-prediction-cm...
- ocep-storm-prediction-cm...
- nws-operations-center
- rfc-southeast-ffc
- roc-southern-region
- team-ffcslackadmins
- wfo-atlanta-georgia
- wfo-atlanta-georgia-datas...
- wfo-birmingham-alabama
- wfo-birmingham-alabama...
- wfo-huntsville-alabama
- wfo-huntsville-alabama-d...
- Add channels
- Direct messages
- Slackbot
- NWS - David Nadler - FFC...
- EMER - Matt Outfeller - C...
- EMER - Spencer Newlin - ...
- NWS - Kyle Thiem - FFC A...
- NWS - Jessica Chace - HUN
- wfo-atlanta-georgia

#wfo-atlanta-georgia

NWS Atlanta Website | OSE Point Forecasts Page | NWS Weather & Hazards | Weather Prediction Center | Storm Prediction Center | National Hurricane Center

Yesterday

Today

WxBot 12:31 AM
05:21:12: FFC (FFC) has issued a Forecast Discussion (AFD)

WxBot 4:47 AM
09:47:41: FFC (FFC) has issued a Forecast Discussion (AFD)

WxBot 5:48 AM
10:48:54: FFC (FFC) has issued a Hazardous Weather Outlook (HWO)

WxBot 6:31 AM
11:31:46: FFC (FFC) has issued a Forecast Discussion (AFD)

WxBot 8:39 AM
13:39:16: FFC (FFC) has issued a Forecast Discussion (AFD)

NWSAtlanta Twitter 9:43 AM
<https://twitter.com/NWSAtlanta/status/1457720863502592010>

NWS Atlanta @NWSAtlanta
Fall foliage (circled in blue) across the Appalachian Mountains and plateau terrain of Tennessee can be seen in the shades of orange/brown in this GeoColor satellite image from GOES-East. Image from <https://t.co/63U0BtF8x> #gawx
<https://t.co/t78ZAhWROJ>

Twitter Today at 9:45 AM (700 MB)

WxBot 12:38 PM
17:38:26: FFC (FFC) has issued a Forecast Discussion (AFD)

WxBot 3:38 PM
19:38:56: FFC (FFC) has issued a Forecast Discussion (AFD)

Message #wfo-atlanta-georgia

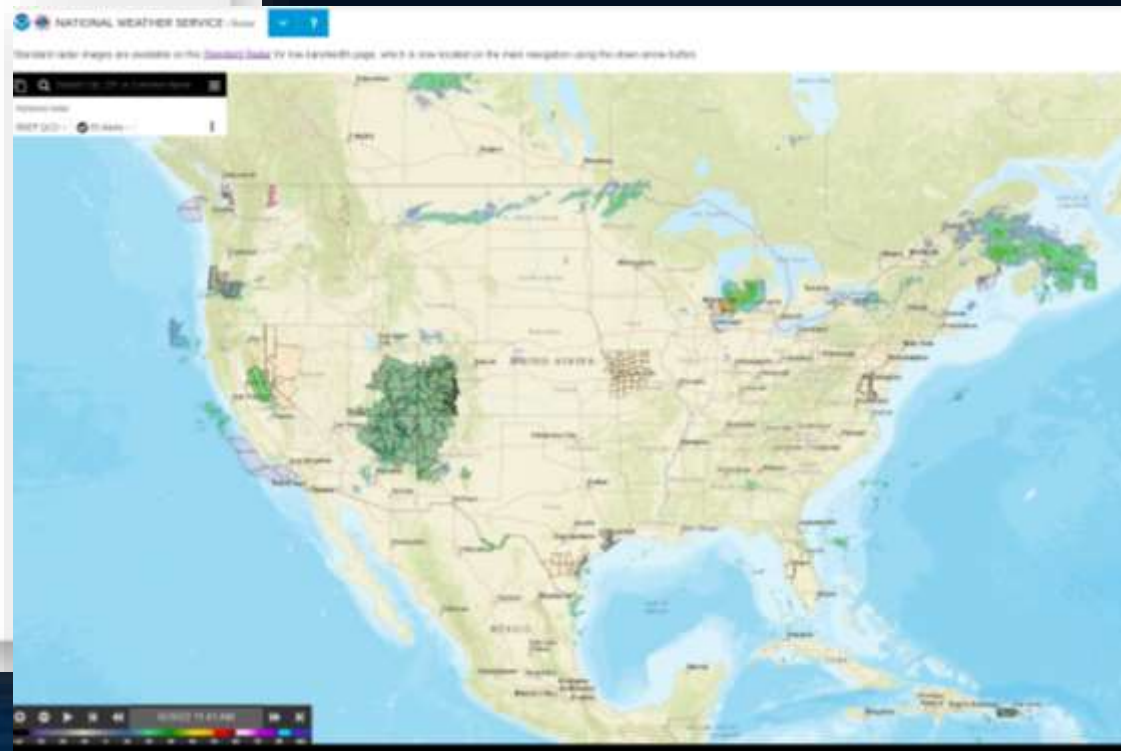
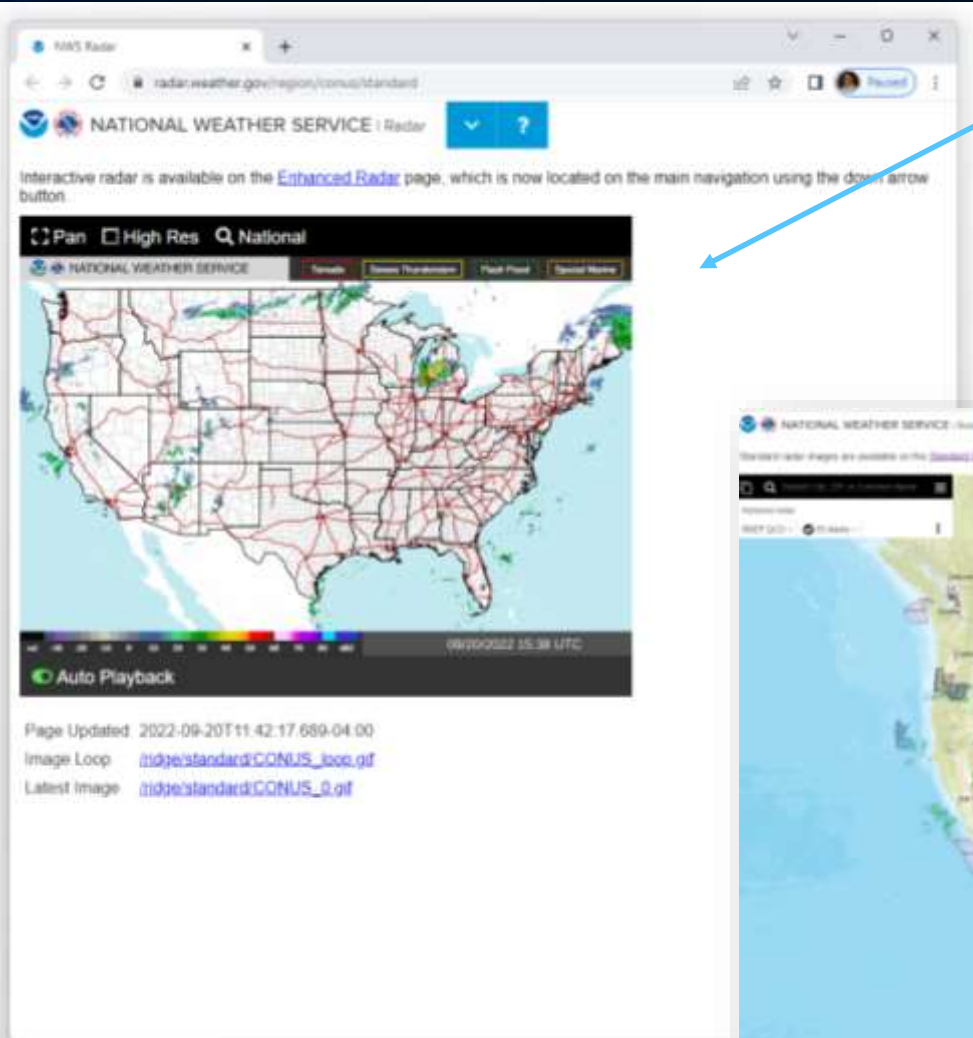
- Participated in a simulated test/demo for 6 weeks (Oct-Nov 2021) with several other offices and SERFC.
- Ran the test parallel to NWSChat with select number of core partners
- Definitely more user-friendly for mobile platforms/devices
- This will become the new NWSChat in 2023!!



NWS Radar Pages – What's new?

<https://radar.weather.gov>

- “Standard” low-bandwidth page (default)
- Higher-resolution “Enhanced” page is more interactive (but could take up more space on your computer)





NWS Enhanced Data Display (EDD)

<https://preview.weather.gov/edd/> ***may not be supported - future*



- Excellent situational awareness “dashboard”
- Can display/overlay radar, current observations, Watches/Warnings, etc.
- Ability to SAVE and SHARE customized display



Climate Resources

- **NWS Atlanta Climate Archives**
(<https://www.weather.gov/ffc/ClimateArchive>)
 - View the monthly and seasonal data going back to 2018 for each of our climate sites.
 - Contains climate graphs, records, archived events, and outlooks
- **Southeast Regional Climate Center (SERCC)**
(<https://sercc.com/climate-perspectives>)
 - View climate data on a map interface
 - Can view records, rankings, and departures from normal.
- **Current U.S. Drought Monitor Conditions for Georgia**
(<https://www.drought.gov/states/Georgia>)
 - Updated every Thursday

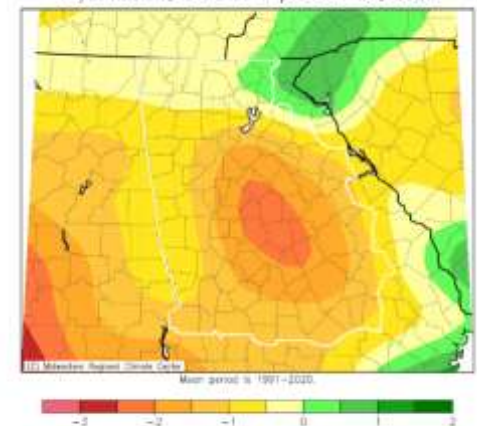
Below are the overview stats for September 2022 for our 10 climate sites.

September 2022 Monthly Rankings		
Climate Site	Temperatures	Precipitation
Athens	41st Warmest	33rd Driest
Atlanta	26th Coolest	7th Driest
Columbus	36th Coolest	28th Driest
Macon	20th Coolest	31st Driest

Sep 2022 Climate Averages			
Climate Site	Sep Temp (°F)	Average Temp	Departure from Normal
Athens	73.0	73.9	-0.9
Atlanta	74.6	74.9	-0.3
Columbus	76.0	77.6	-1.6
Macon	74.4	76.2	-1.8
Cartersville	72.0	72.5	-0.5
Dekalb Peachtree Arpt	71.3	72.9	-1.6
Fulton Co Arpt	73.1	73.5	-0.4
Gainesville	72.2	72.4	-0.2
Peachtree City	73.4	74.1	-0.7
Rome	73.1	73.8	-0.7



Accumulated Precipitation (in): Departure from Mean
September 1, 2022 to September 30, 2022

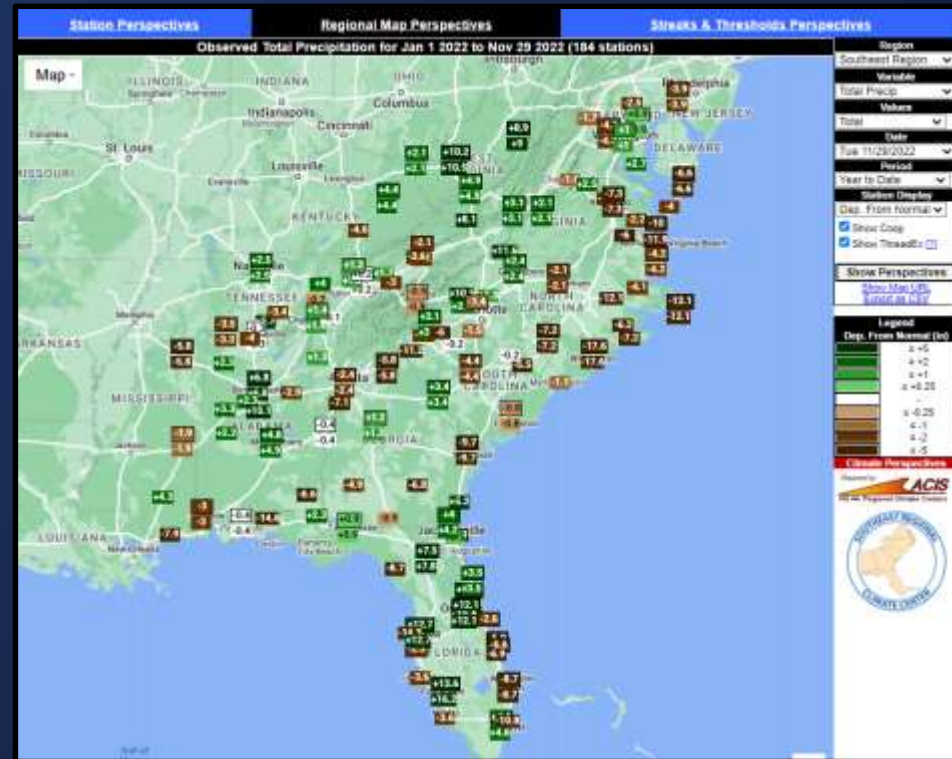


Midwestern Regional Climate Center
SR-MATE: MRCC Application Tools Environment
Generated at: 10/2/2022 8:40:08 AM CDT



Climate Resources

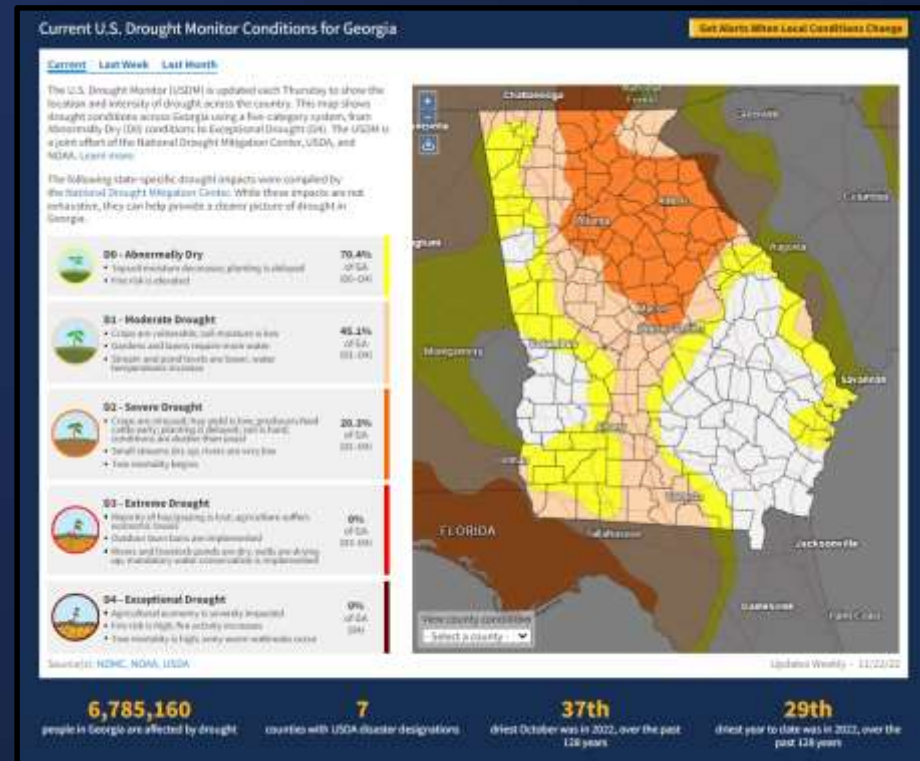
- **NWS Atlanta Climate Archives**
(<https://www.weather.gov/ffc/ClimateArchive>)
 - View the monthly and seasonal data going back to 2018 for each of our climate sites.
 - Contains climate graphs, records, archived events, and outlooks
- **Southeast Regional Climate Center (SERCC)** (<https://sercc.com/climate-perspectives>)
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 - Can view records, rankings, and departures from normal.
- **Current U.S. Drought Monitor Conditions for Georgia**
(<https://www.drought.gov/states/Georgia>)
 - Updated every Thursday





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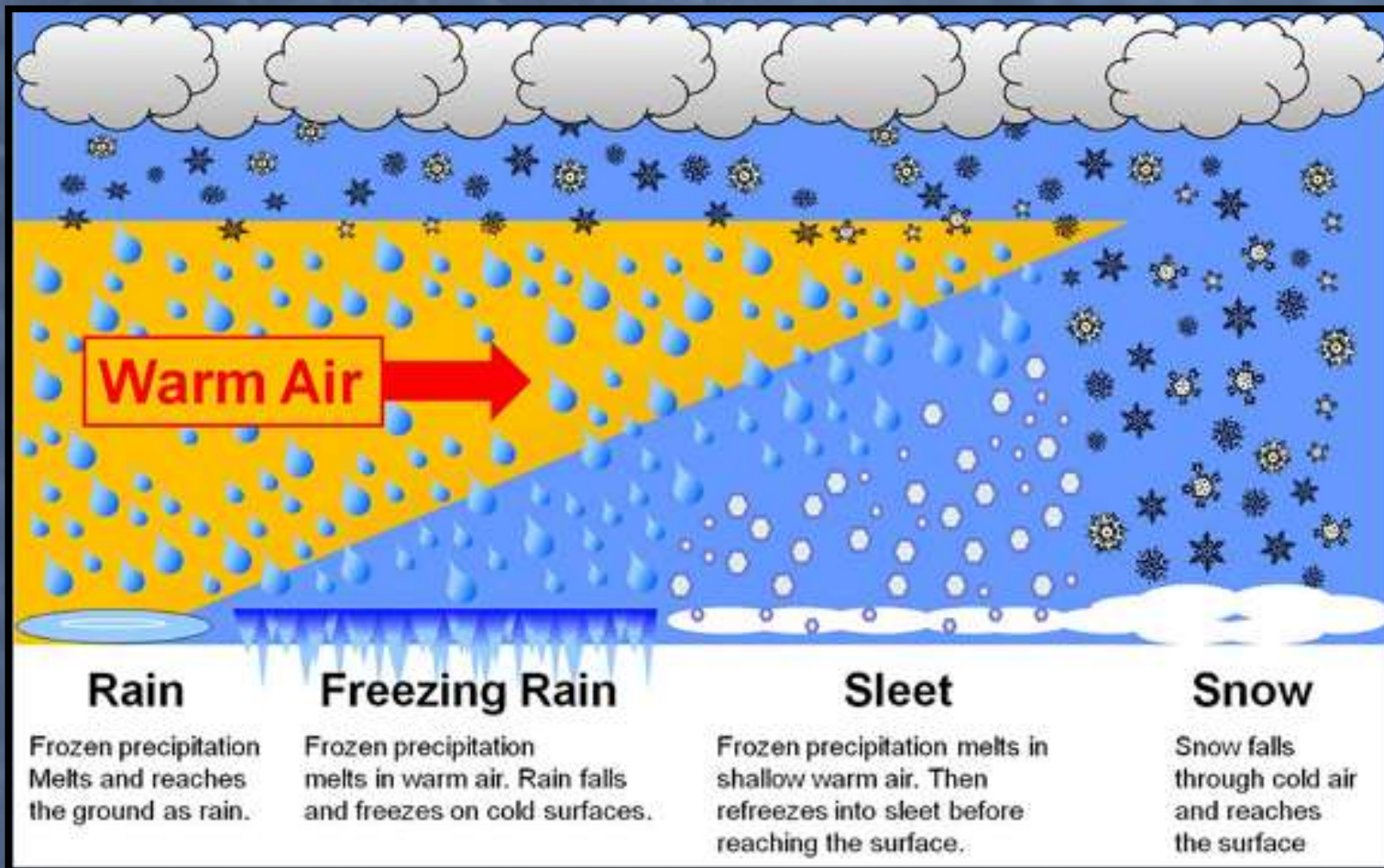


NWS Atlanta -- North & Central GA Integrated Warning Team Meeting

NWS WINTER PRODUCTS (WATCHES/WARNINGS)



Winter Season Precipitation Types



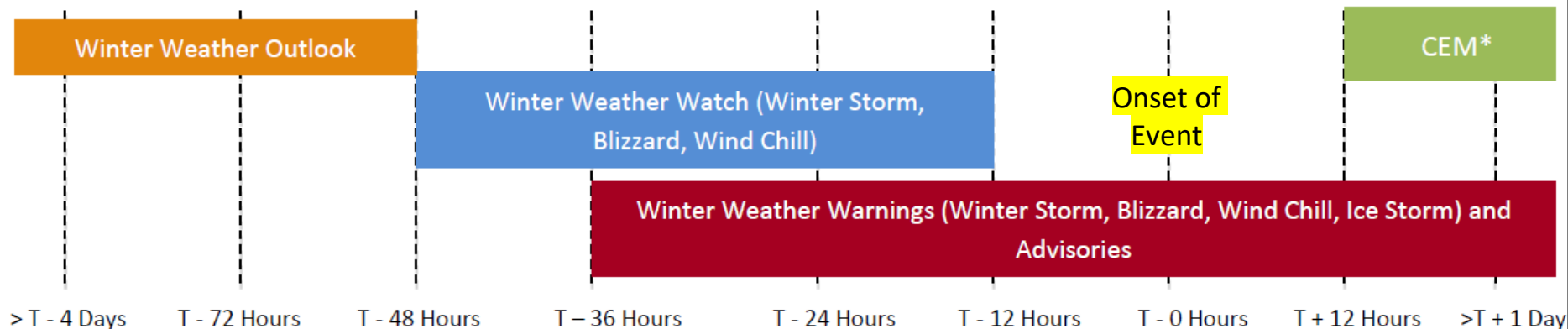
1-3° temp
difference
within only
2-3K feet
(sfc-cloud
base)



NWS Winter Products and Timelines

- **Outlooks/Statements → 3 to 5 days out**
 - Hazardous Weather Outlook (HWO)
 - Special Weather Statement (SPS)
- **Winter Storm WATCH → within 48-72 hours of threat/impact onset**
- **Winter Storm / Ice Storm WARNING or Winter Weather ADVISORY → within 36 hours of onset**
- ****NEW (2022-23 from NWS Atlanta)**** Special Weather Statement(s) during event OR for rogue/localized impact event
 - Similar to Significant Weather Advisories for strong storms/heavy rain

Timeline of NWS Winter Weather Products



**CEM Civil Emergency Message could be used as a means of relaying treacherous road conditions and advising the public to stay off the roads.*



NWS Atlanta -- North & Central GA Integrated Warning Team Meeting

SPS – Winter Product “demo”



Why use the SPS for winter weather?

- Fill the information gap between Watch or Warning issuance and when the winter conditions begin
- Give details on when precipitation is expected to begin and end
- Message potentially impactful events that do not meet Warning or Advisory criteria
- Give details on precipitation types and expected changeovers, accumulations, and calls-to-action
- Provide rumor control



Example 1: Recent case from NWS Pittsburgh



11:07

Near KPBZ

Special Weather Statement 32m

Pennsylvania
Allegheny, Beaver & Butler

...A SNOW SHOWER WILL AFFECT NORTHEASTERN BEAVER...SOUTHERN BUTLER AND NORTH CENTRAL ALLEGHENY COUNTIES... At 1102 AM EST, a snow shower was located near Rochester, or near Monaca, moving east at 40 mph. Locations impacted include... Cranberry, Butler, Aliquippa, Beaver Falls, Monaca, Economy, Homeacre-Lyndora, New Brighton, Shanor-Northvue, Beaver, Baden, and Meridian. This includes the following highways... Pennsylvania Turnpike between mile markers 14 and 31. Interstate 79 in Pennsylvania between mile markers 77 and 93. Visibilities will drop quickly to less than a half mile in this snow shower, and a quick accumulation of one-half to one inch of snow is possible, including on roads. Conditions can deteriorate rapidly in winter weather situations. Be prepared for snow or ice covered roads. Slow down and allow extra time when traveling.

Done

SPS basis: heavy snow shower

- Speed & direction of motion
- Locations to be impacted

- Visibility
- Expected accumulations
- Potential hazard
- Calls-to-action



Example 2: Supplementing a Warning*

Special Weather Statement
National Weather Service Peachtree City GA
154 PM EST Tue Nov 29 2022

GAZ014-022>025-027-033>035-045>047-291930-
Madison-Hall-Banks-Jackson-Dawson-North
Fulton-Walton-Rockdale-Barrow-DeKalb-Forsyth-Gwinnett-
154 PM EST Tue Nov 29 2022

...WINTER PRECIPITATION WILL AFFECT NORTH CENTRAL ROCKDALE...
BARROW...DEKALB...FORSYTH...GWINNETT...BANKS...NORTHWESTERN WALTON...
SOUTHEASTERN DAWSON...HALL...JACKSON...NORTHEASTERN FULTON AND WEST
CENTRAL MADISON COUNTIES...

A mix of winter precipitation is expected to begin by 4 PM across these counties.
Precipitation may begin as a mix of rain, sleet, and snow before transitioning
to all snow by evening as colder air filters in from the northeast.

Locations impacted include...

Gainesville, Lawrenceville, Decatur, Winder, Jefferson, Commerce,
Cumming, Homer, Peachtree Corners, Sandy Springs, Roswell, Johns
Creek, Alpharetta, Dunwoody, Milton, Duluth, Sugar Hill, Snellville,
Suwanee and Buford.

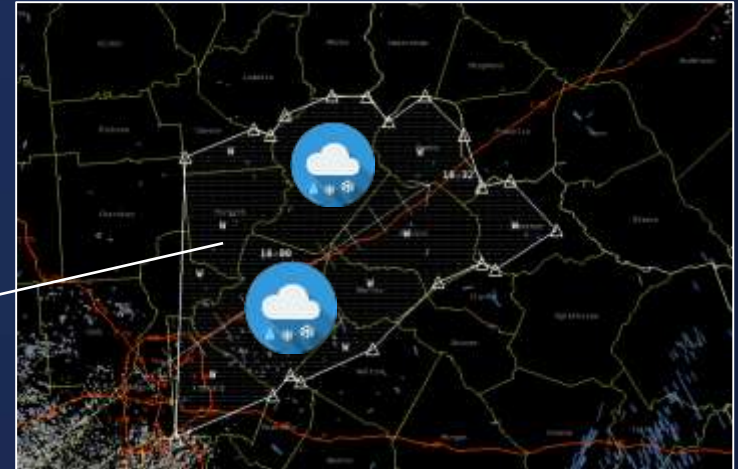
**A Winter Storm Warning is in effect for the area. Please monitor
local media outlets and the National Weather Service for further
statements.**

Icy roads are possible as the snow melts on the roads then quickly
refreezes.

Conditions can deteriorate rapidly in winter weather situations. Be
prepared for snow or ice covered roads. Slow down and allow extra
time when traveling.

LAT...LON 3446 8340 3442 8338 3432 8339 3430 8337

SPS covering classic wedge area



- Timing
- Precip type

Locations to be impacted

- Potential hazard
- Calls-to-action

***In this situation, a
Warning is already in
effect, so this product
is intended to provide
updated information
to the public**



Example 3: Wintry precip above a certain elevation*

Special Weather Statement
National Weather Service Peachtree City GA
206 PM EST Tue Nov 29 2022

GAZ006>009-013>016-291930-
Gilmer-Dawson-Union-Towns-Pickens-White-Lumpkin-Fannin-
206 PM EST Tue Nov 29 2022

...A WINTRY MIX WILL AFFECT CENTRAL TOWNS...NORTHERN LUMPKIN...
SOUTHEASTERN GILMER...NORTHWESTERN WHITE...NORTHWESTERN
DAWSON... NORTHEASTERN PICKENS...CENTRAL UNION AND SOUTHEASTERN
FANNIN COUNTIES...

SPS basis: wintry mix

At 206 PM EST, an area of mixed precipitation including snow, sleet and
freezing rain was located across the **higher elevations of Northern Georgia**.
Light wintry accumulations are possible.

Precip type

Impacts from this wintry mix will be confined to elevations above
approximately 2000 feet.

Elevations to be impacted

Locations impacted include...

Young Harris, Suches, Amicalola Falls State Park, Sequoyah Lake, Blue
Mountain Shelter, Woods Hole Shelter, Low Gap Shelter, Fausett Lake,
Len Foote Hike Inn, Vogel State Park, Anna Ruby Falls, Stover Creek
Shelter, Turners Corner, Gaddistown, Camp Merrill, Whitley Gap Shelter,
Brasstown Bald, Mountain Scene, Springer Mountain Shelter and Camp
Coleman Lake.

Locations to be impacted

Although this event is expected to be short lived, if conditions
worsen, a Winter Weather Advisory may become necessary. Please
monitor local media outlets and the National Weather Service for
further statements.

Call-to-action



***In this situation, the polygon
was drawn to include only the
portions of the counties at or
above 2000 feet**

LAT...LON 3493 8360 3492 8359 3491 8363 3488 8366 3482 8365 3480 8368
3478 8366 3465 8383 3465 8393 3461 8405 3444 8433 3457 8445 3474
8414 3483 8418 3484 8399 3482 8386 3494 8392 3492 8376 3495 8355



The Winter SPS is not just for precipitation!

- Freezing fog
 - Flash freeze
 - Black ice
- } Little to no accumulation involved, but can have major impacts on travel and thus require special messaging

The Winter SPS will be used as needed this winter!

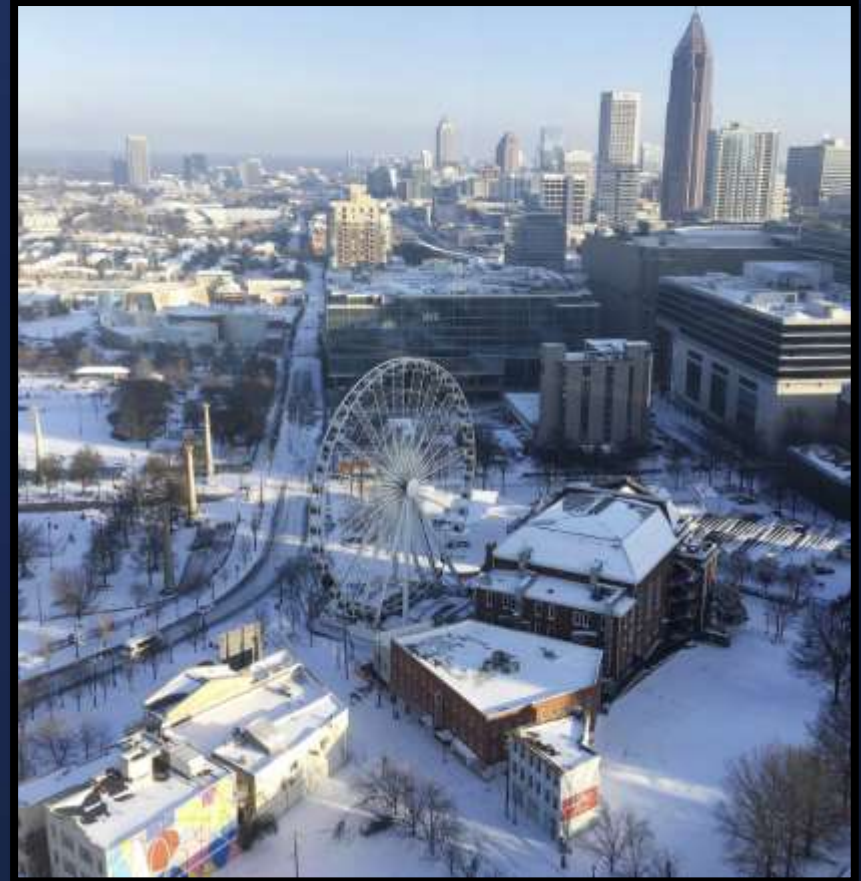
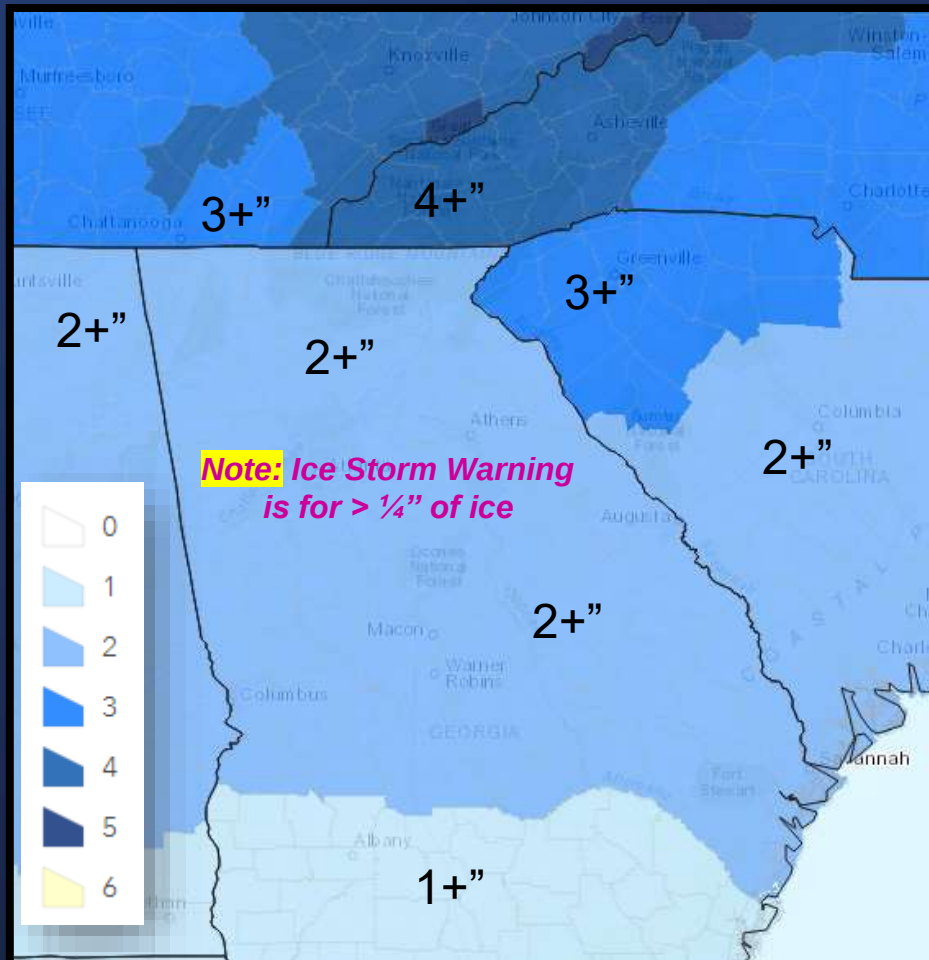
Planned, future additions include:

- Bulleted, standardized format
- Updated call-to-action options
- Additional information options for the forecaster to choose from



Winter Storm Warning/Advisory Criteria

Snow Accumulation Thresholds that might trigger Winter Storm WATCH / WARNING**



****NOTE – this does not take into account IMPACTS!**



Impacts vs. Amounts

34°

3" of Snow



28°

1/2" of Snow





Thank you!!

