### WATER SUPPLY CONDITIONS UPDATE 1/9/23

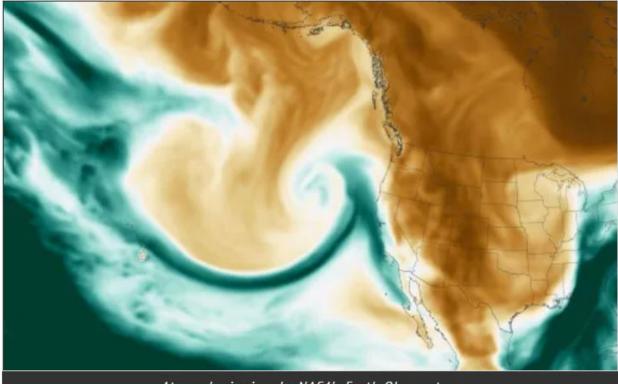
You can now access Updates on our website: <u>https://www.rrfc.net/week.ly-water-supply-conditions-update</u>

### Atmospheric Rivers in the Russian River Watershed

There is a lot of information available on the current cycle of storms The Center for Western Weather and Water Extremes is a great resource: <u>https://cw3e.ucsd.edu/cw3e-ar-update-5-january-2023-outlook/</u>

See "In the Media" section for more articles but here are the most recent ones: <u>CA Water Education Foundation - Worst of it Still in Front of Us as New Storms Approach a Rain-</u> <u>Weary California</u>, 1/9/23

Watch CA Natural Resources Agency Secretary Wade Crowfoot's message: <u>https://www.youtube.com/watch?v=28RZpVBFljo</u>



Atmospheric river by NASA's Earth Observatory

from: Earth Observatory - AR lashes CA

### Reservoir Storage & Operations(More info here):

Water supply information below and attached provided by Sonoma Water. National Weather Service updates **attached** 

Lake Mendocino	1/9
Current Storage (acre-feet)	71,372
Target Water Supply Storage Curve (acre-feet)	63,734
% of Target Water Supply Storage Curve	111.98%
7-day change (acre-feet)	+19,819
Lake Pillsbury	1/7
Current Storage (acre-feet)	61,862
Target Storage Curve (acre-feet)	27,546
7-day change (acre-feet)	-1,278
Lake Sonoma	1/9
Current Storage (acre-feet)	165,773
Target Storage Curve (acre-feet)	245,000
% of Water Supply Pool	67.66%
7-day change (acre-feet)	+48,103

Lake Mendocino side-by-side:



Photo on left: Jan 2021 (by E Salomone) Photo on right: Na 2023 (by CJ Watt)

### Megaflooding - Is it Happening Now?

This USGS video on YouTube was created in 2010, warning of the impacts of devastating and destructive storms with extensive flooding:

https://www.youtube.com/watch?v=EWXbpuOWiPk&t=1s

See the article here: <u>Vice- US Government Predicted a Devastating California 'ARkStorm' in 2010</u> <u>Is It Happening Now?</u>, <u>1/6/23</u>



### 2023-2025 State Water Board Racial Equity Action Plan

The State Water Board has reviewed and revised the draft Racial Equity Action Plan to reflect the feedback received during the public workshops, the public comment period that ended in October, and employee listening sessions. <u>Racial Equity Action Plan</u>

The State Water Board's 2023-2025 Racial Equity Action Plan is a compilation of goals, actions, and metrics intended to advance the organization's efforts to create a future where we equitably preserve, enhance, and restore California's water resources and drinking water for all Californians, regardless of race, and where Water Board employees at all organizational levels reflect the racial and ethnic diversity of California.

**Final Draft Presentation to the Board:** The final draft of the Racial Equity Action Plan will be presented to the State Board as an informational item on January 18, 2023. The Board meeting will begin at 9:30 a.m.

The meeting will occur at a physical meeting location but there will also be an option for the public to participate from a remote location. For members of the public who wish to participate remotely, additional information about participating telephonically or via the remote meeting option is available at <u>bit.ly/water remote</u>. Members of the public who wish to watch the workshop but not

participate can do so at <u>video.calepa.ca.gov</u>. Click on the "Live Video" link under the corresponding date and event. Please note that the link to the webcast will be available a few minutes before the workshop begins.

To follow along with progress on racial equity, check out website: <u>Racial Equity | California State Water Resources Control Board</u> To provide input or ask any questions, please email racialequity@waterboards.ca.gov.

### International Wildlife Film Festival in Ukiah

Mark your calendar for the 2023 Redwood Valley Outdoor Education Project film festival in Ukiah!



March 3: Bees, Butterflies and Birds March 10: Wildlife Warriors: Kenyans fighting for Kenyan Wildlife. March 17: Predator Night: Bears, Coyotes, and People For more information and to sign up for the newsletter, go to <u>https://rvoep.org/</u>

### Coffee & Conversation with Felicia Marcus

Thursday, January 19, 2023, 10-11 AM, hosted by Regional Water Authority. Felicia will discuss what it will take for CA to adapt is water system to climate change including new initiatives. More information: <u>https://mailchi.mp/rwah2o.org/coffeechatmar-16818756?e=aaefff009a</u>

### Nature Based Solutions:



"Beavers are having a well-deserved moment in the discussion around climate solutions. Healthy beaver populations improve their environment in so many ways – from reducing wildfire risks, to making water conditions more hospitable for our native salmon and trout." <u>CA Department of Fish and Wildlife - Beaver Management Policies Get A Refresh, 1/5/23</u> <u>CA Department of Fish and Wildlife - We Agree: Time For California To Embrace Beavers, 1/4/23</u>

### Redwood Valley Early Warning Sirens Project

January 14, 2023 10-4, See attached flyer for more information.

### In the press:

- CA Water Plan eNews, Jan 4, 2023
- Maven's Notebook, Jan 3-6, 2023
- Officer of CA Governor Governor Newsom Proclaims State of Emergency and Mobilizes State Government Ahead of Winter Storms, 1/4/23
- CA Water Education Foundation Recent rains have improved CA's drought. Where do we stand now (various articles), 1/6/23
- CA Water Education Foundation Massive storm lashes Nor Cal (various articles), 1/5/23
- PPIC The Promise of a Wet January 1/ 5/23
- The Guardian The hidden underwater forests that could help tackle the climate crisis, 1/2/23
- <u>RR Watershed Association Recycled Water: A Necessary Resource for Sustainability, 1/1/23</u>
- The Conversation -How CA Could save up its rain to ease future droughts instead of watching epic atmospheric river rainfall drain into the Pacific, 1/6/23
- CA Water Education Foundation Why we can- and cannot- collect rainwater in places like CA, <u>1/9/23</u>
- Check out the Sonoma-Marin Saving Water Partnership Quarterly E-News

### Other resources & information:

- <u>Mendocino County Water Agency Drought page</u>
- <u>SWRCB Russian River drought information page</u>
- <u>SaveOurWater.com</u>
- <u>SaveWater.ca.gov</u> to report water waste, such as leaks and overwatering.
- <u>Water Rights Enforcement Complaints Program</u> and/or <u>Cal EPA Complaint System</u> to report concerns of unauthorized diversions, violations of water rights, diversions impacting fisheries, etc. Reports can be made anonymously.
- Visit Sonoma Water's website for information on <u>current water supply levels</u> and <u>Temporary Urgency</u> <u>Change Petitions</u>.

Elizabeth Salomone, General Manager

**Russian River Flood Control & Water Conservation Improvement District** NEW ADDRESS: 304 N. State Street, #2, Ukiah, CA 95482 Cell: 707-462-5278 www.RRFC.net





### Storm System Moves East of the Region Today, Next Storm Approaches Tonight into Tuesday

Flood watches will be allowed to expire early today as the atmospheric river moves south and east of the region.

### **KEY POINTS**

- Gusty Winds Possible Tonight into Tuesday, Again Mid to Lake Week
- Main Stem River Flooding in Mendocino County Into Tuesday
- Flooding of Low Lying Areas and Small Streams Possible This Morning
- Mountain Snow in Trinity County
- Chance of Thunderstorms on Tuesday

### WEATHER RISK OUTLOOK

Risk levels incorporate potential impacts from weather hazards and likelihood of occurrence for a reasonable worse case scenario.

	Mor	n 1/9	Tue 1/10	Wed 1/11	Thu 1/12	Fri 1,	/13	Sat 1/14	Sun 1/15
Lake County Clearlake, Lakeport		ain ding	Rain Thunderstorms	Rain	Light Rain			Rain	Rain
Del Norte County Crescent City, Gasquet	Ra	iin	Rain Thunderstorms Wind	Rain Wind	Rain Wind	Rain Win	-	Rain	Rain
Mendocino County Ukiah, Fort Bragg		in ding	Rain Thunderstorms Wind	Rain Wind	Rain Wind			Rain	Rain
Trinity County Weaverville, Hayfork		ain ain Snow	Rain Mountain Snow	Rain Mountain Snow	Light Rain			Rain	Rain
Humboldt County Eureka, Fortuna, Willow Creek	Ra	iin	Rain Thunderstorms Wind	Rain Wind	Rain Wind	Rain Win		Rain	Rain
Risk Leve	ls	Li	ttle to None	Minor	Moderat	e	Majo	r Extre	eme

### **DETAILS**

Trinity County	
<b>₩</b> Snow	<ul> <li>Impacts:</li> <li>Mountain travel delays and chain controls possible above 4000 to 4500 feet.</li> <li>Hazardous travel conditions due to slick, snow covered roads.</li> <li>Timing:</li> <li>Through Wednesday</li> <li>Confidence:</li> <li>Moderate</li> </ul>
	<ul> <li>Moderate snow will impact Highway 3 over Scott Mountain Pass. Several more inches of accumulation will be possible this morning and again on Tuesday into early Wednesday.</li> <li>Snow levels around 4000 to 5000 feet, rising over 6000 feet on Wednesday or Wednesday night.</li> </ul>

### Del Norte County, Mendocino County, Humboldt County

	Impacts: • Hazardous crosswinds, especially for high profile vehicles. • Tree damage is possible. • Power outages possible.
≓ <sup>℃</sup> Wind	<b>Timing:</b> • Periods of gusty winds with each storm system this week, primarily for coastal counties. <b>Confidence:</b> Low
	<ul> <li>Coastal headlands and exposed ridgetops could see gusts exceeding 45 mph with each storm this week.</li> <li>Southerly winds could be persistent Wednesday through Friday at the coast as a storm spins over the eastern Pacific and stalls.</li> </ul>

### Mendocino County, Humboldt County

River Flooding	<ul> <li>Impacts:</li> <li>The Russian, Navarro, and Garcia rivers will remain a flood threat today and possibly into Tuesday. All three are flooding highways at this time.</li> <li>Eel River at Fernbridge and Mad River near Arcata are in Monitor Stage and are forecast to remain near or in Monitor Stage for the next several days.</li> <li>Timing:</li> <li>Rain decreasing today, showers and thunderstorms return tonight into Tuesday.</li> <li>More chances for rain later this week.</li> <li>Confidence:</li> <li>For the latest info and current hydrographs with the river levels, visit www.cnrfc.noaa.gov.</li> </ul>
	• River flooding is expected to become less of a threat through the week.

### Lake County, Mendocino County

Flooding	<ul> <li>Impacts:</li> <li>Moderate to heavy rain could lead to small stream and creek flooding.</li> <li>Water flowing in normally dry washes, flood channels, and low water crossings.</li> <li>Timing:</li> <li>This Morning</li> <li>Confidence:</li> <li>Moderate</li> </ul>
	<ul> <li>Roads may become impassable due to flooding, flood damage, or rock/mud slides.</li> </ul>

### Del Norte County, Lake County, Mendocino County, Humboldt County

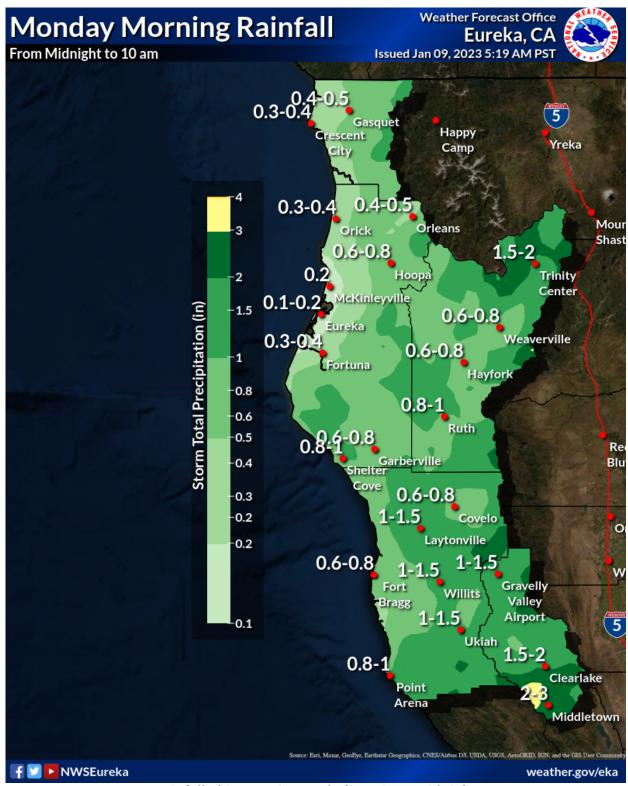
<ul> <li>Impacts:</li> <li>Chance of thunderstorms with deadly cloud-to-ground lightning.</li> <li>Timing:</li> <li>Tonight into Tuesday</li> </ul>				
<ul><li>Brief periods of heavy rainfall</li><li>Strongest storms could product hail and gusty winds</li></ul>				

### FOR MORE INFORMATION

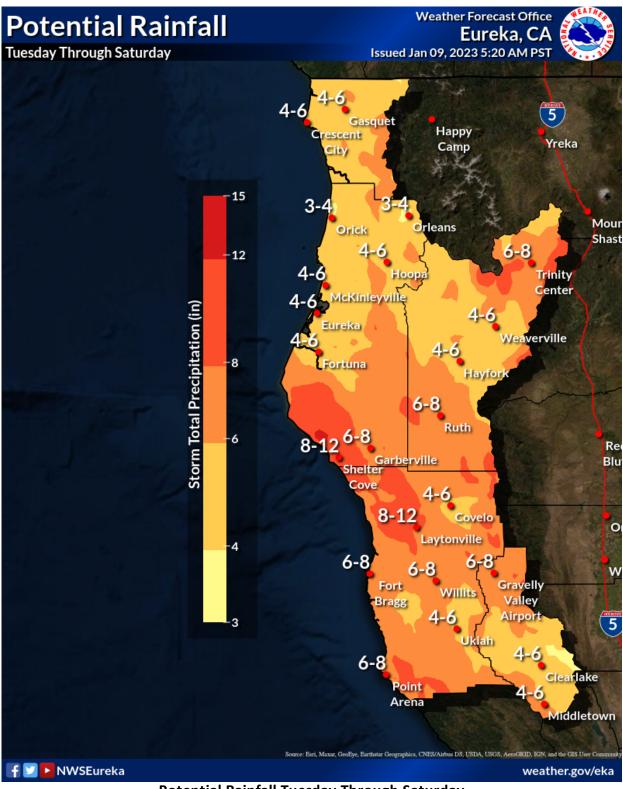
For the latest forecast updates, visit weather.gov/eureka.

If you have questions or would like to submit weather reports, photos, or to unsubscribe from these briefings, email <u>nws.eureka@noaa.gov</u> or call **(707) 443-6484**.

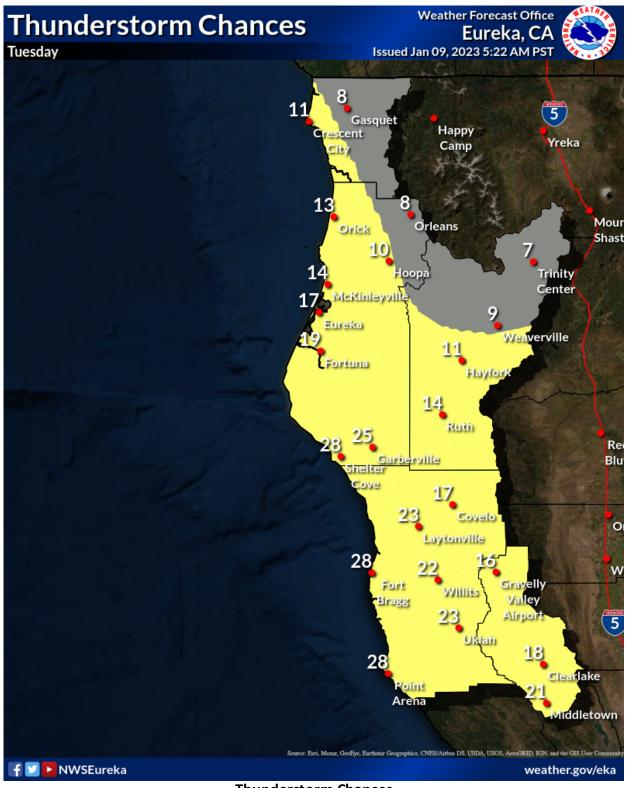
### **GRAPHICS**



**Rainfall This Morning, Including Since Midnight** 



Potential Rainfall Tuesday Through Saturday

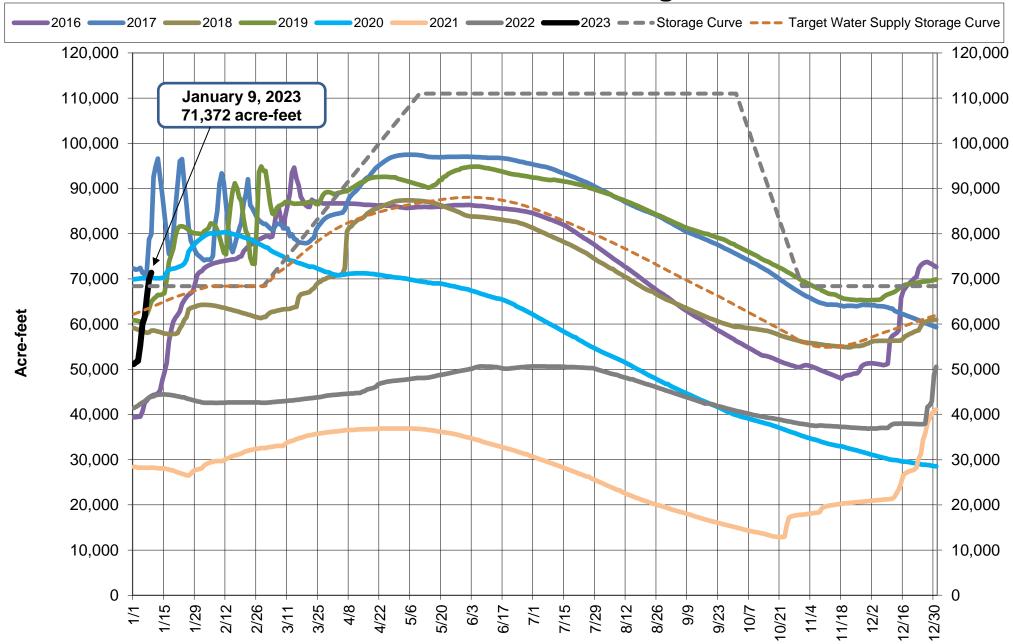




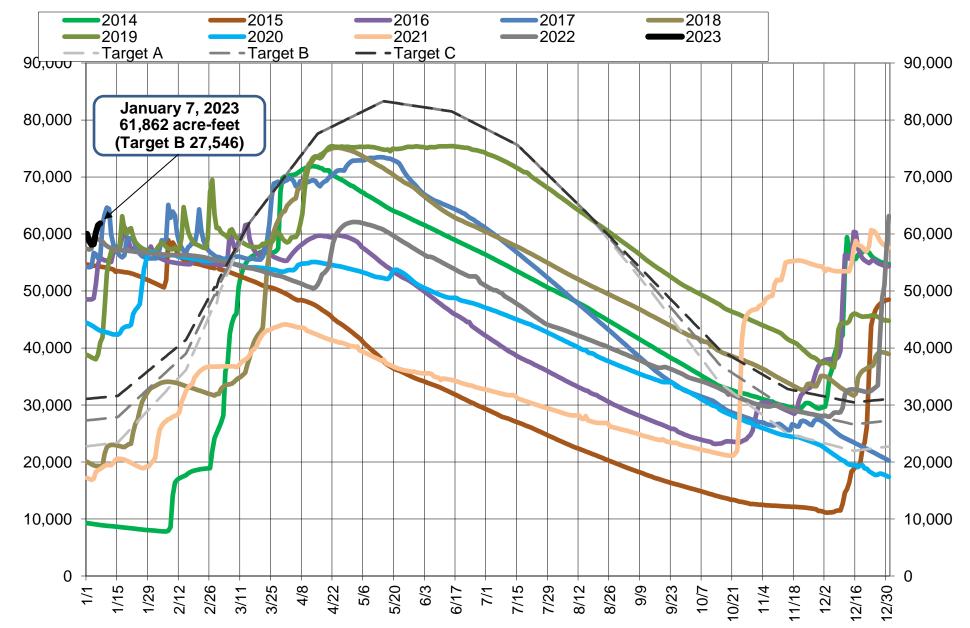


Lightning Safety

### Lake Mendocino Storage

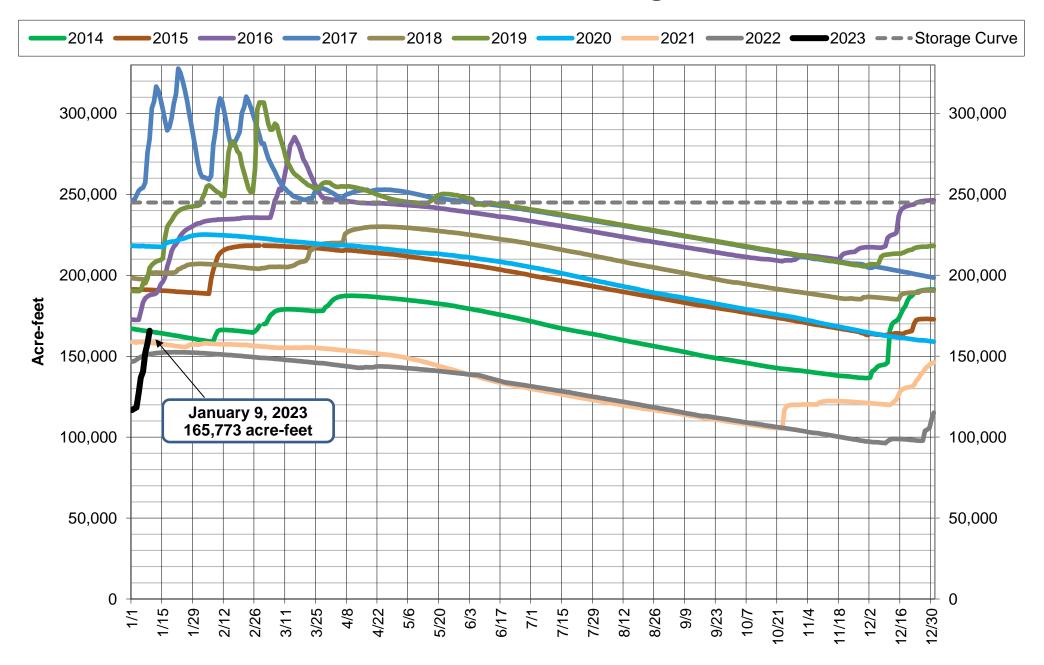


### Lake Pillsbury Storage and Target Storage Scenarios

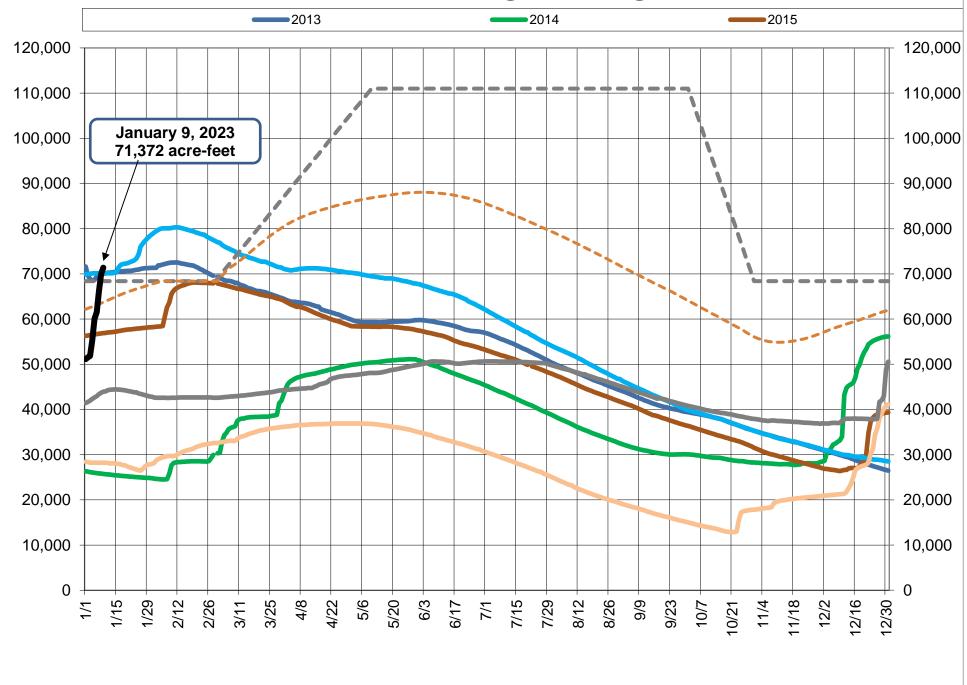


Acre-feet

### Lake Sonoma Storage



### Lake Mendocino Storage - Drought Years



Acre-feet



# Presentation valid at 01-03-2022 at 11AM

# For more up to date information see weather.gov/eka or call us at 707-443-6484



# **Strong Atmospheric River** January 4 - 5 2023

**Presenter : James White** 

# Weather Forecast Office Eureka, CA Tuesday, January 3

## Presentation Start 11:00 AM





## WEATHER RISK OUTLOOK

Risk levels incorporate potential impacts from weather hazards and likelihood of occurrence for a reasonable worse case scenario.

	Tue 1/3	Wed 1/4	Thu 1/5	Fri 1/6	Sat 1/7	Sun 1/8	Mon 1/9
Lake County Clearlake, Lakeport	Rain	Rain Wind Flooding	Wind Rain Flooding	Rain	Rain Wind Flooding	Mountain Snow Rain	Wind Rain
Del Norte County Crescent City, Gasquet	Rain	Rain Wind	Wind Rain Flooding	Wind Rain	Rain Wind	Rain	Rain
Mendocino County Ukiah, Fort Bragg	Rain	Rain Wind Mountain Snow Flooding	Wind Rain Mountain Snow Flooding	Rain Mountain Snow	Snow Rain Wind Flooding	Mountain Snow Rain	Wind Rain Mountain Snow
Trinity County Weaverville, Hayfork	Rain Mountain Snow	Rain Wind Mountain Snow Flooding	Wind Rain Mountain Snow Flooding	Mountain Snow Rain	Snow Rain Wind Flooding	Rain Snow	Wind Rain Mountain Snov
Humboldt County Eureka, Fortuna, Willow Creek	Rain	Rain Wind Flooding	Wind Rain Flooding	Wind Rain	Rain Wind Flooding	Rain	Wind Rain

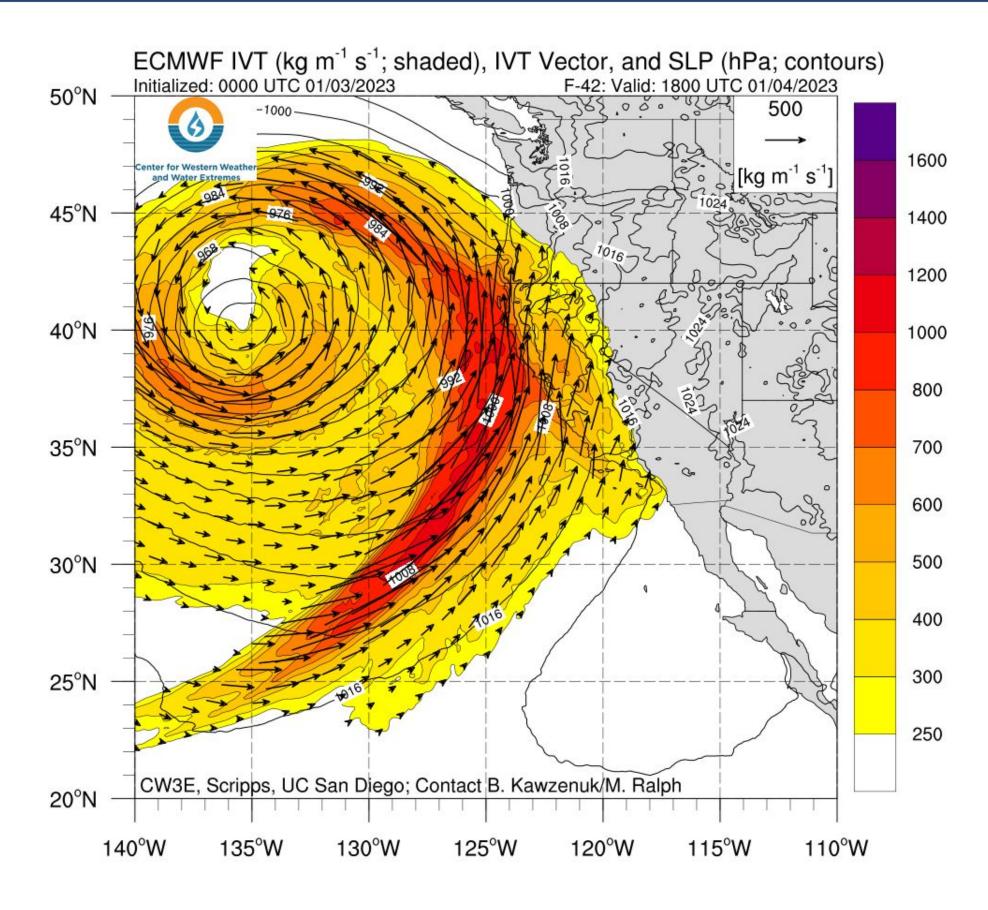


- High winds gusting 60 to 75 mph on coastal ridges and headlands in Mendocino and Humboldt
- 4 to 6 inches of rain in Mendocino and Lake, high risk of rock and landslides
- High risk of small stream flooding and along the Russian, Navarro, and Eel rivers
- Storm force winds and high surf along the coast



# Very strong pacific cyclone approaching the coast tomorrow

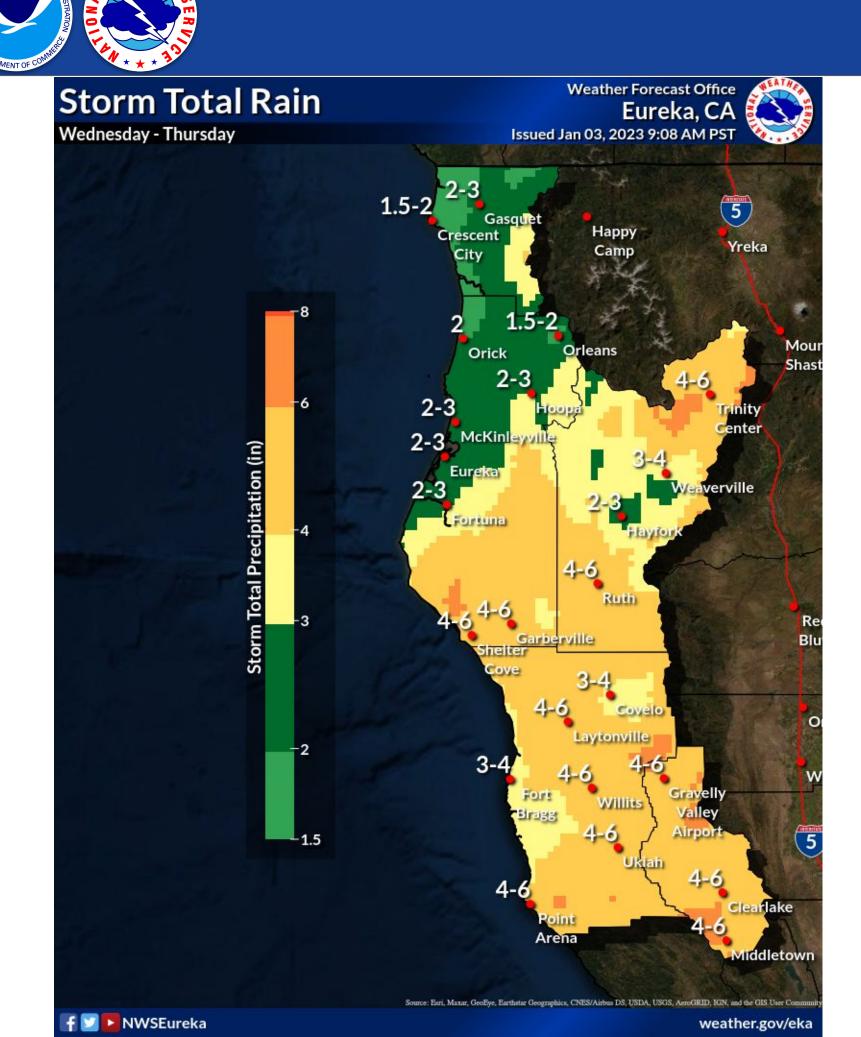
# Will bring a "river" of topical moisture to the area



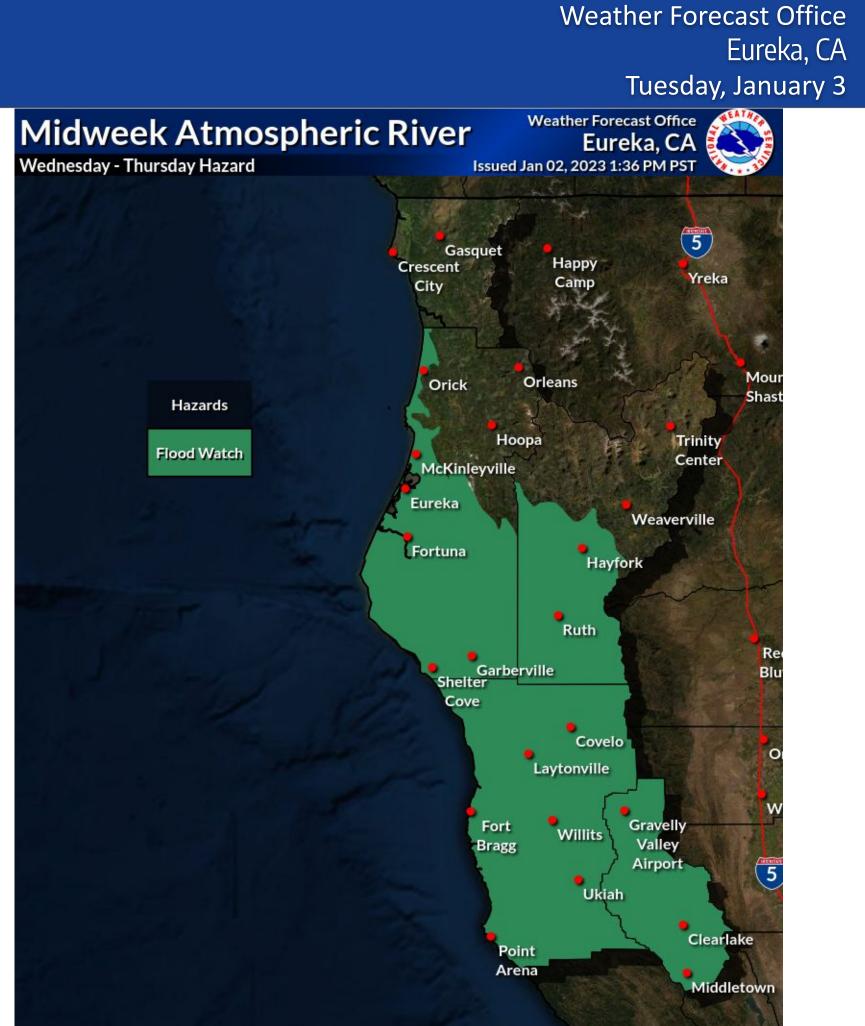


and the second states			
	4:00 am	Tue, Jan 03,	2023
	Rain	Snow/Sleet Brookings	Frz. Rain
in the second		Crescent City <sup>Happy</sup>	Camp
		Orick	Mt. Shas
10		Ноора	Sims
		Eureka	Weaverville
			Reddin
		Shelter Cove	Red Bl
			Paskenta
		Fort Bragg	Alder Springs Stonyford
			Ukiah Clearlake <sub>Du</sub>
GIobal Syste	ms Laboratory		Geyserville





NOAA

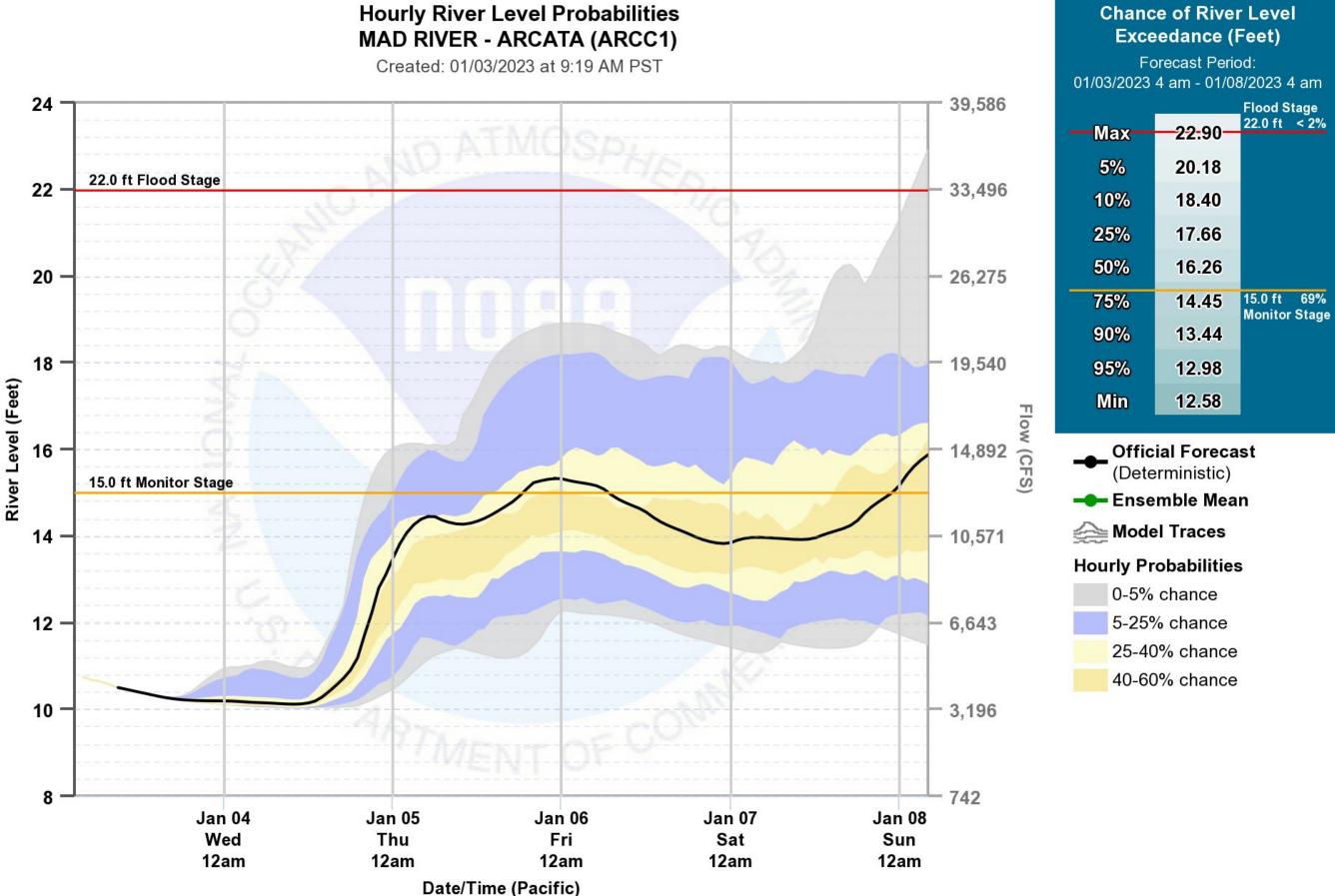


Source: Esri, Maxar, GeoEwe, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Con

weather.gov/eka

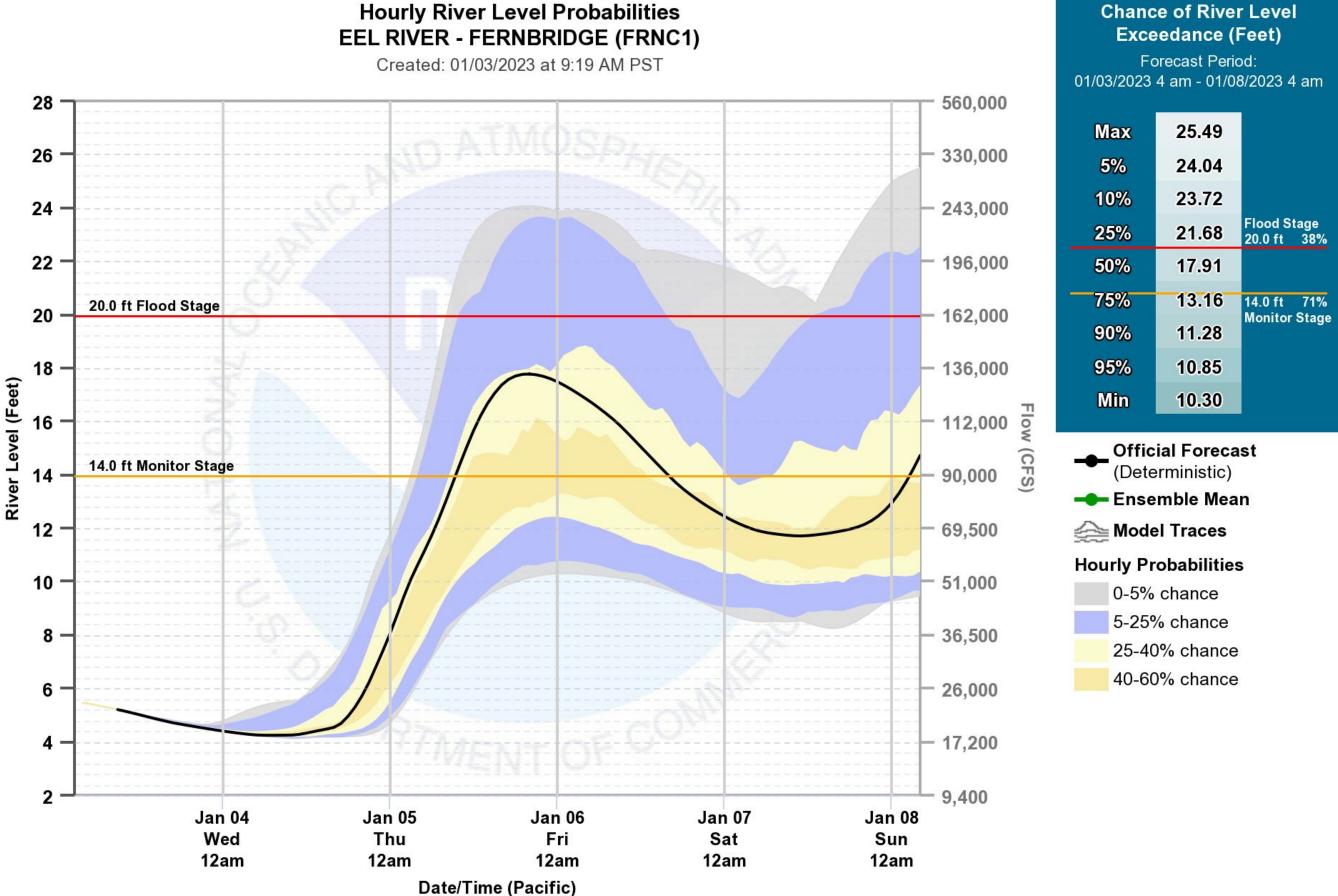


# **Hourly River Level Probabilities**



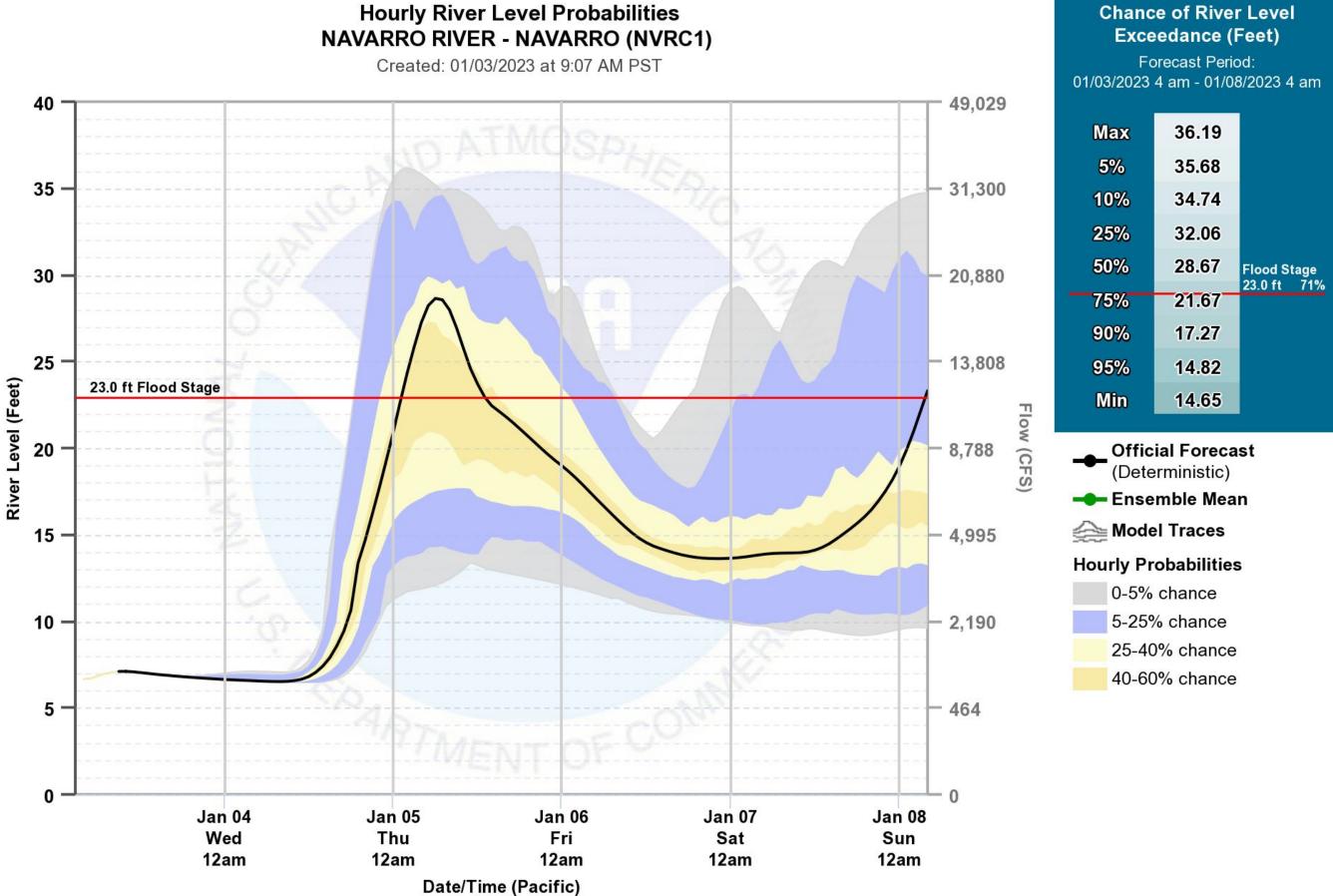


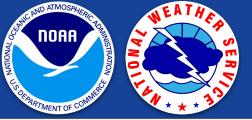
# **Hourly River Level Probabilities**





# **Hourly River Level Probabilities**





## Navarro River at Navarro

Wednesday - Thursday



**NIGHT TO THURSDAY** AFTERNOON...

\* WHAT...Flooding is possible.

\* WHERE...Navarro River at Navarro.

\* WHEN...From late Wednesday night to Thursday afternoon.

\* IMPACTS...At 30.0 feet, Water will flow over the south bank of the river approximately 1 mile east of Highway 1, and begins to flood property in this area including six homes. Expect closure of Highway 128. Motorists should use alternate routes.



nt Aron:

### Weather Forecast Office Eureka, CA Tuesday, January 3



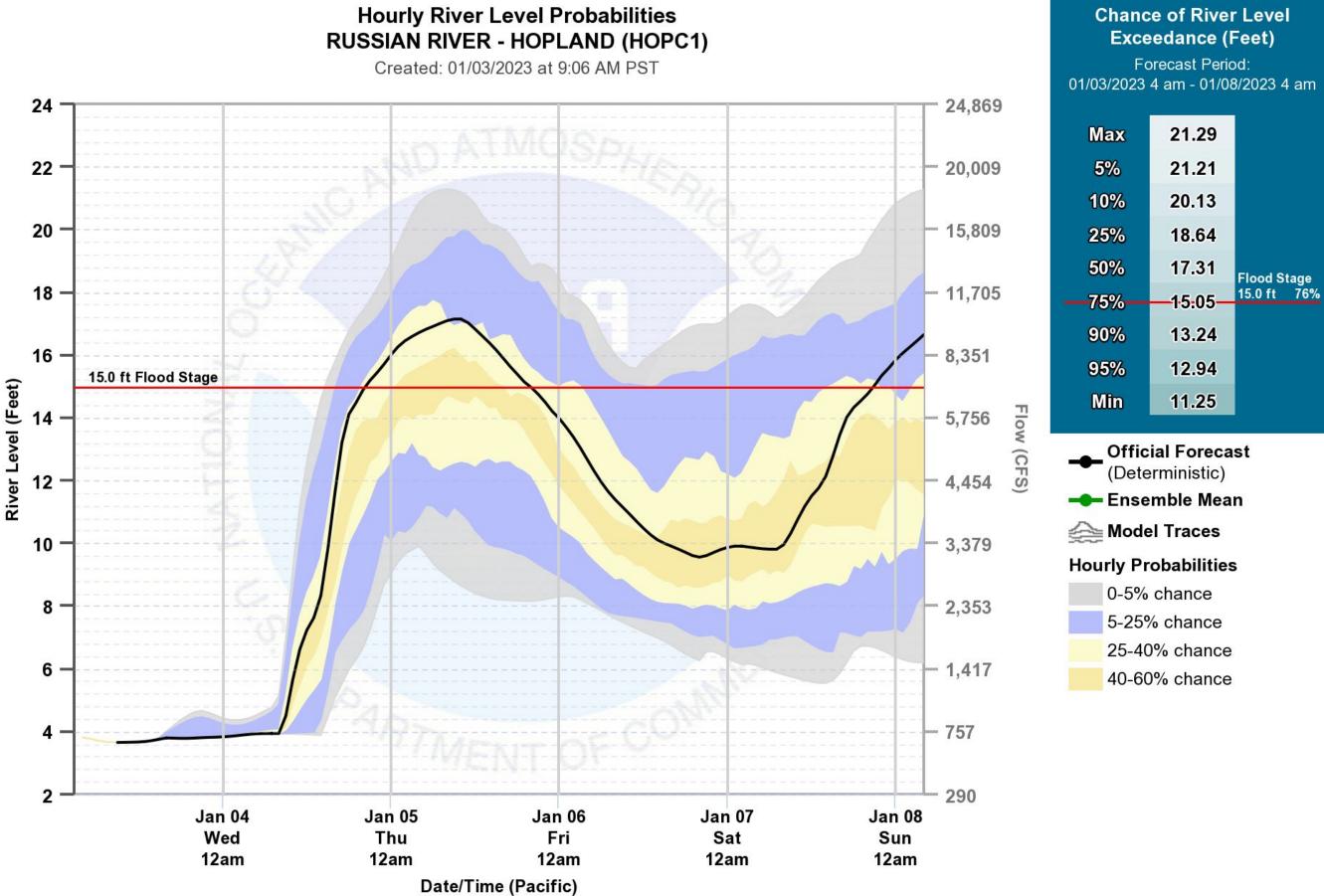
Weather Forecast Office Eureka, CA Issued Jan 03, 2023 9:15 AM PST

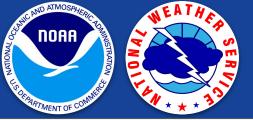
### ...FLOOD WATCH IN EFFECT FROM LATE WEDNESDAY



# **Russian River at Hopland**

# **Hourly River Level Probabilities**





# **Russian River at Hopland**

Wednesday - Friday



...FLOOD WATCH NOW IN EFFECT FROM WEDNESDAY EVENING TO EARLY FRIDAY MORNING...

- \* WHAT...Flooding is possible.
- \* WHERE...Russian River near Hopland.
- \* WHEN...From Wednesday evening to early Friday morning.
- \* IMPACTS...At 17.0 feet, Significant flooding of Highway 175 at the approaches to the Russian River bridge. Minor flooding of Highway 222 near Ukiah, and in crop land along the left and right banks of the Russian River near Hopland.

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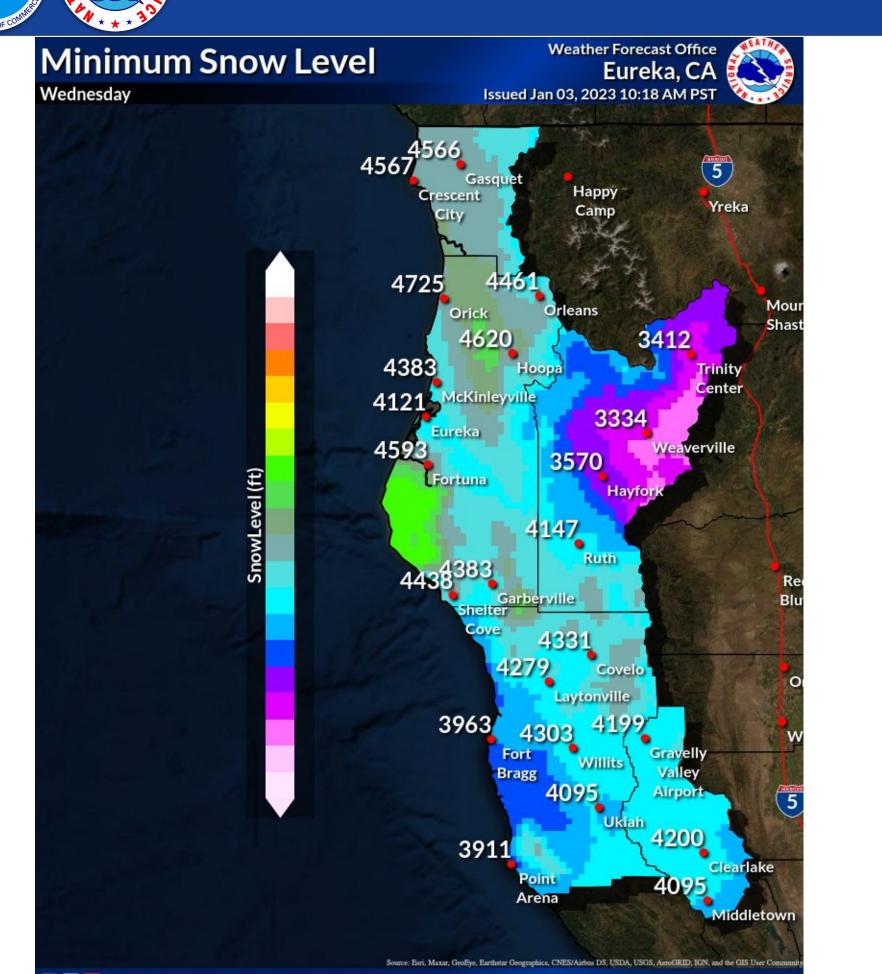


### Weather Forecast Office Eureka, CA Tuesday, January 3



Weather Forecast Office Eureka, CA Issued Jan 03, 2023 9:13 AM PST

ics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Co



# Wednesday

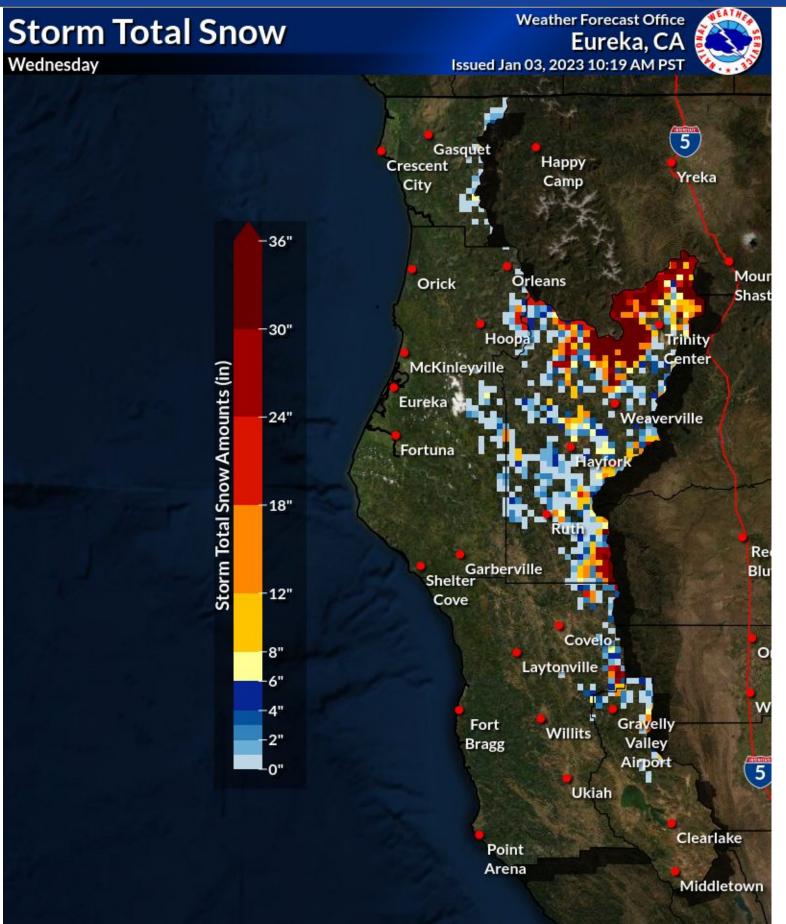
weather.gov/eka

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NOAA

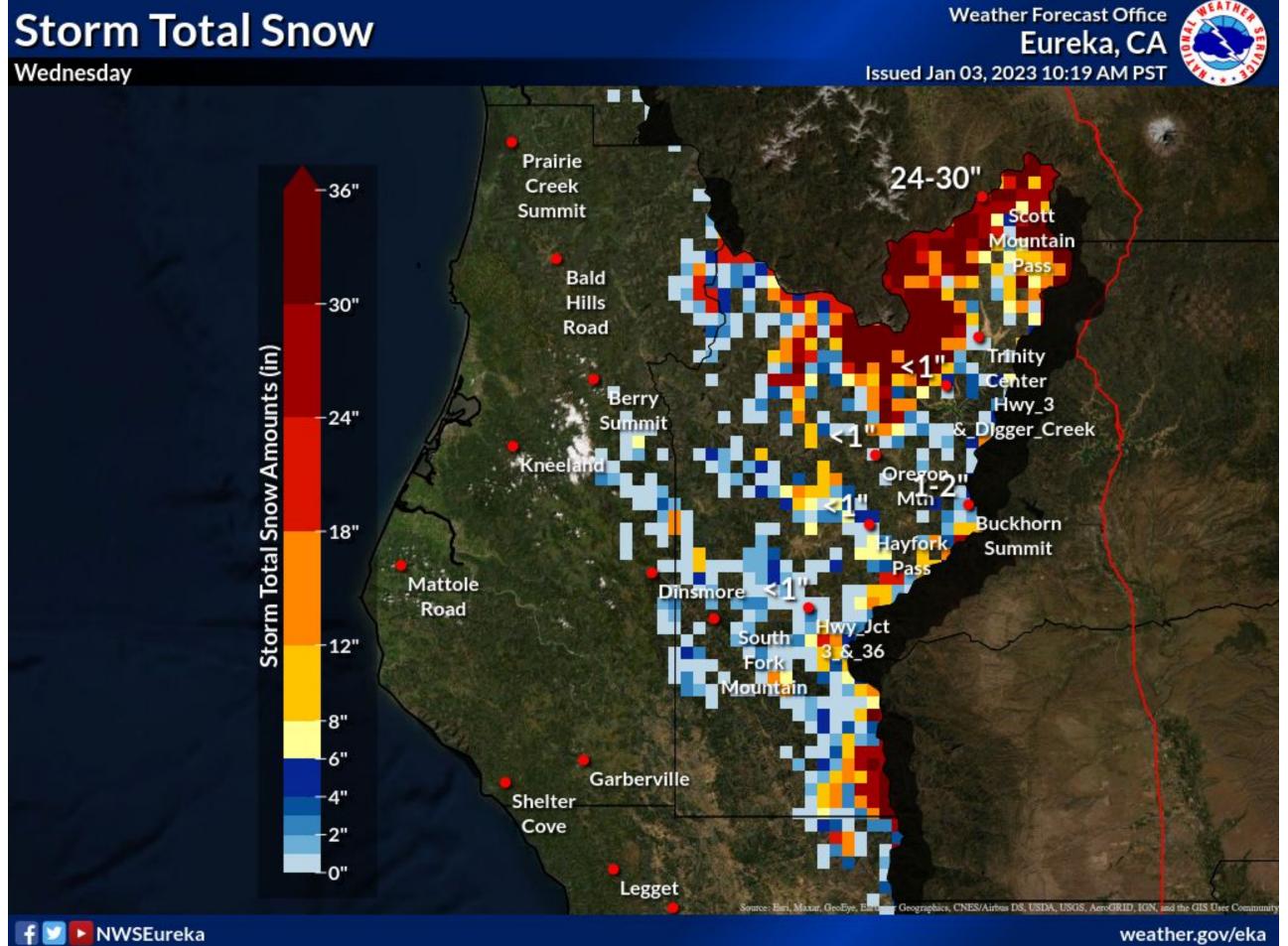
## Weather Forecast Office Eureka, CA

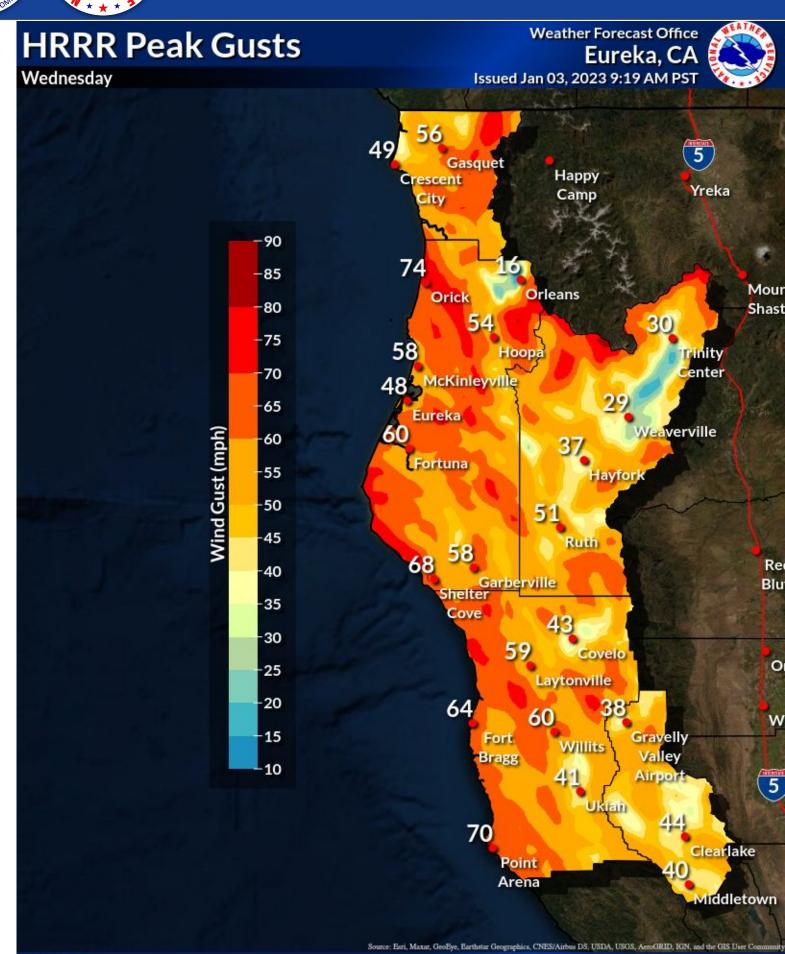
Tuesday, January 3





# **Storm Total Snow**



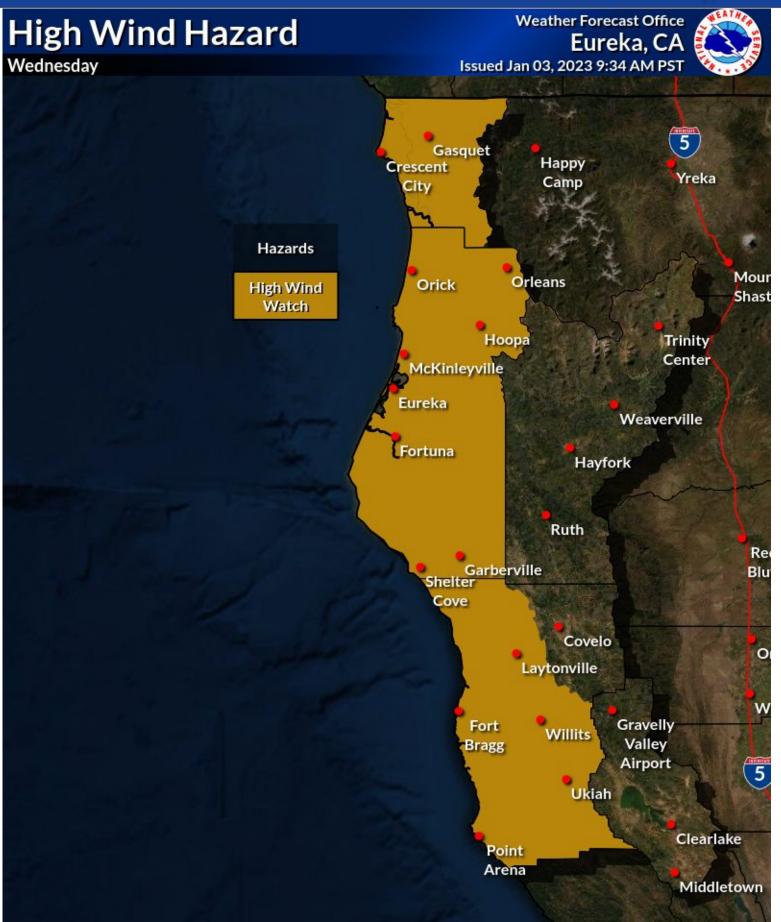


Wednesday

NOAA

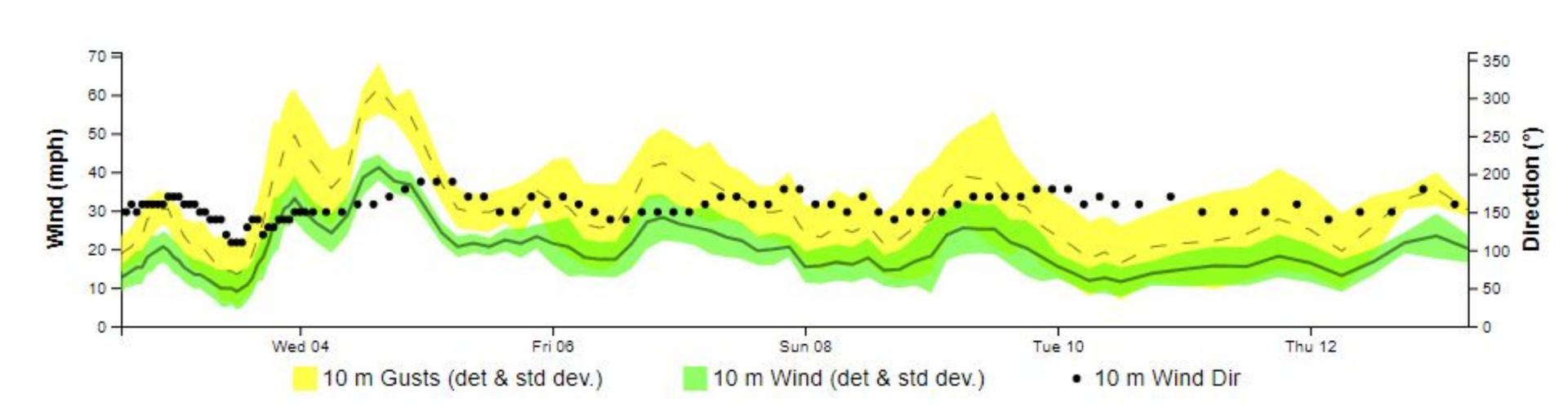
## Weather Forecast Office Eureka, CA



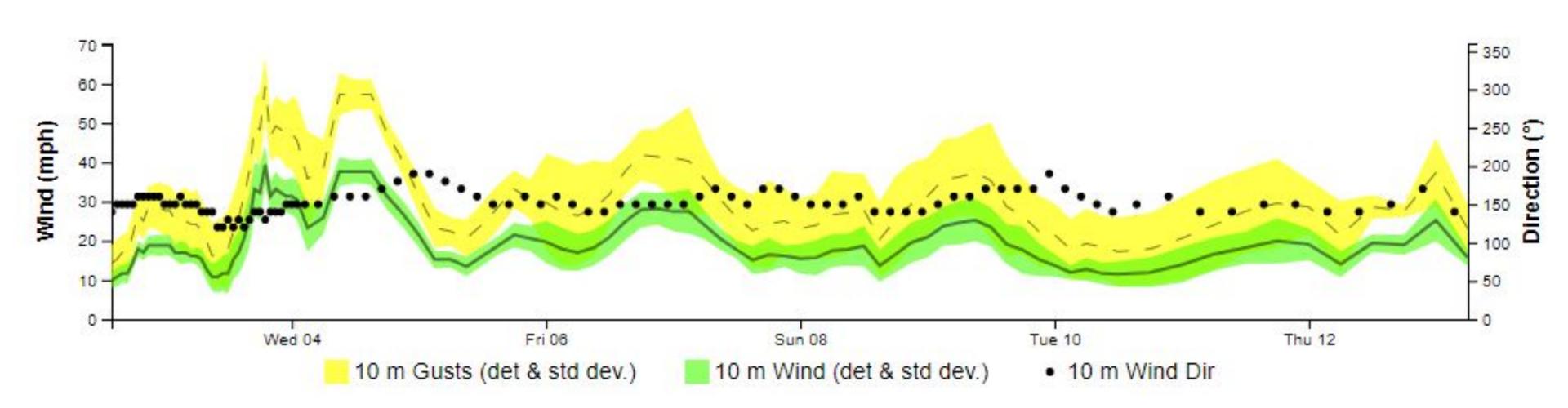


Source: Esri, Maxar, GeoEve, Earthstar Geographics, CNES/Airbus DS, USDA, USOS, AeroGRID, IGN, and the GIS User Co.

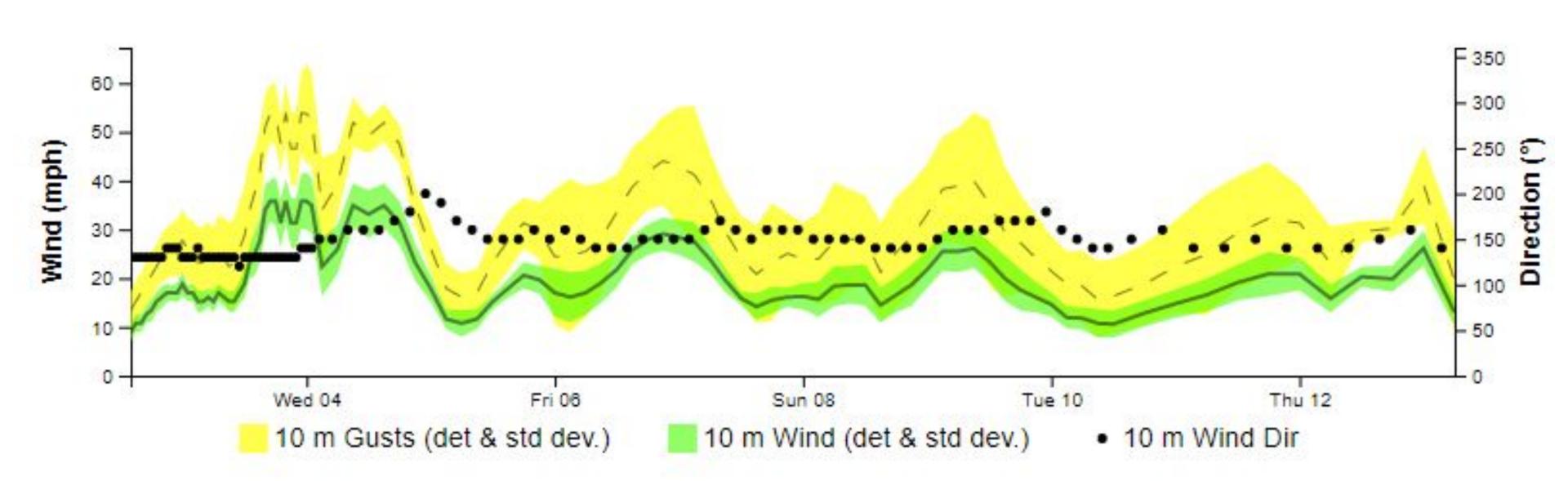




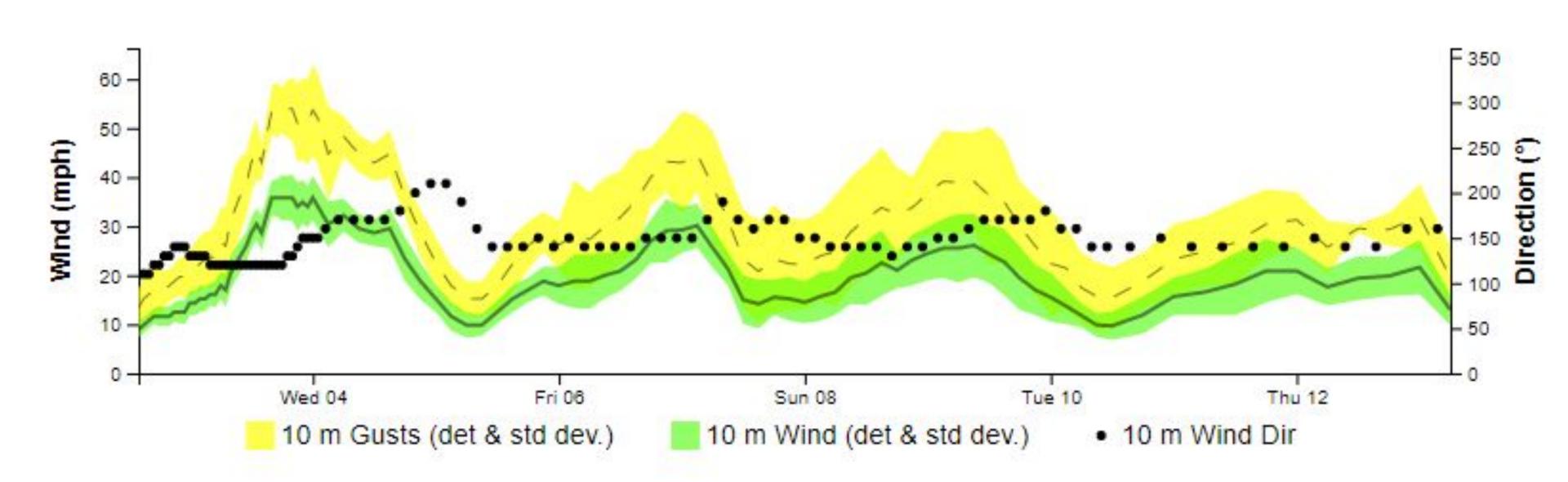




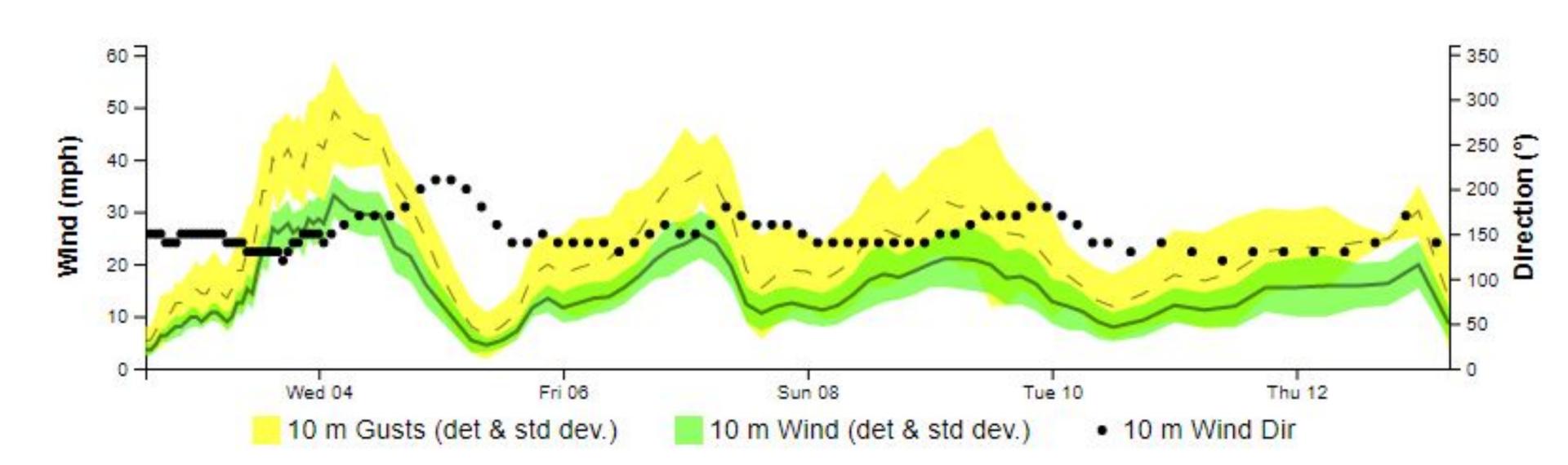












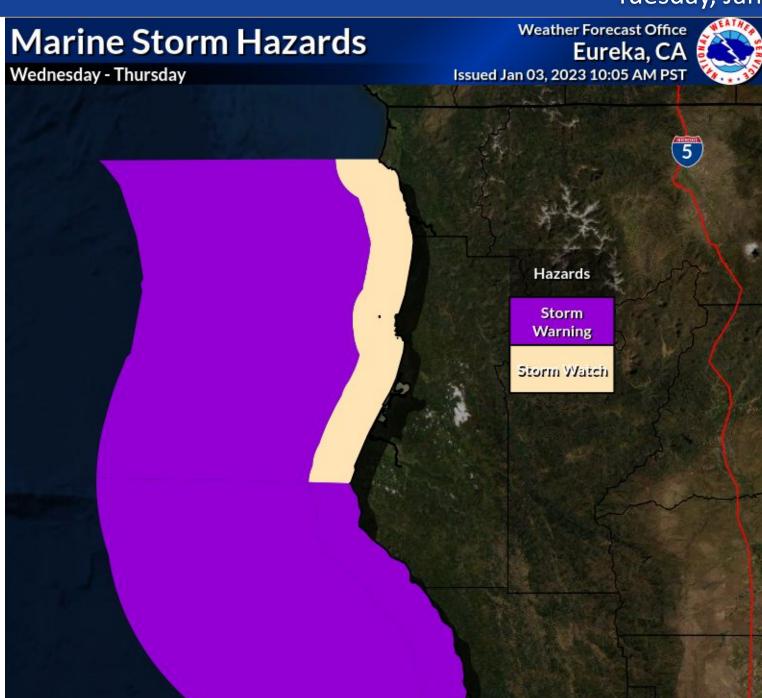


Wednesday - Thursday

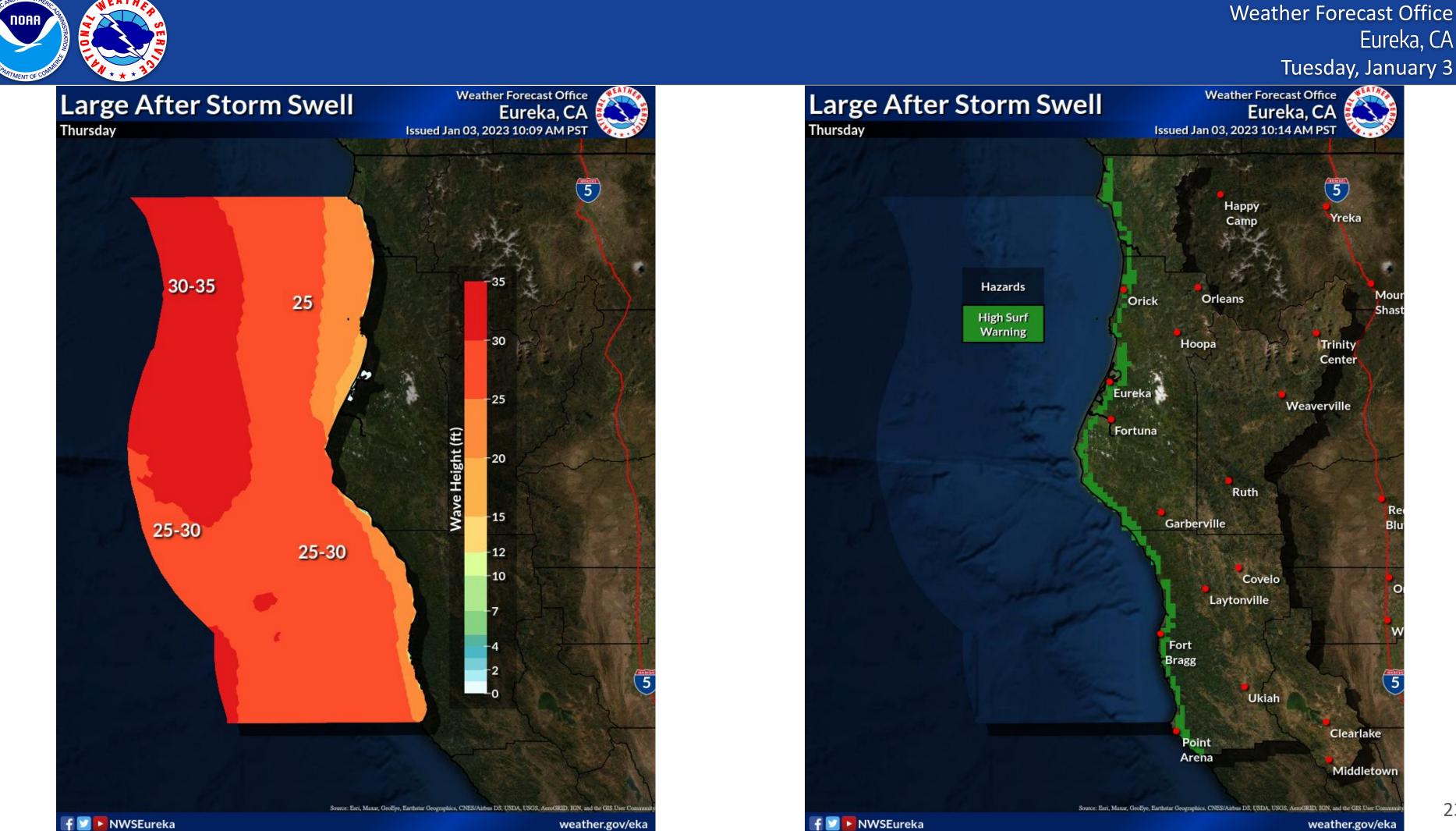


## Weather Forecast Office Eureka, CA

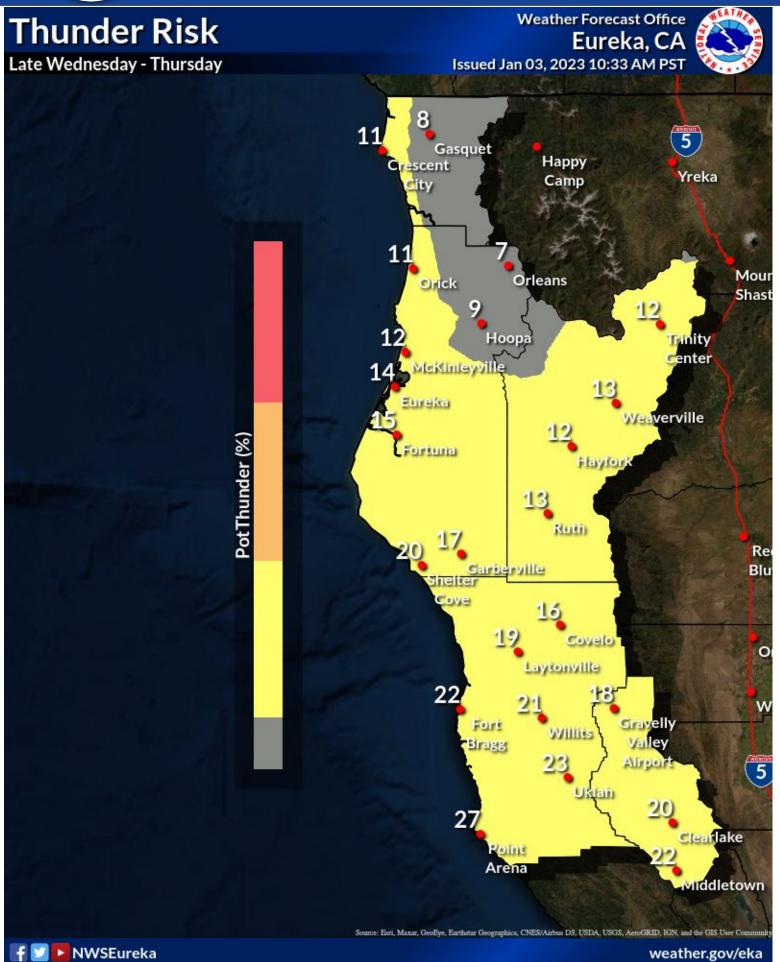
Tuesday, January 3



weather.gov/eka

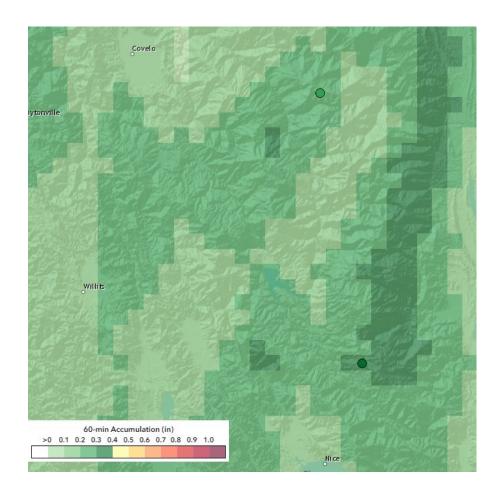


# **Thunder and Debris Flow Risk**

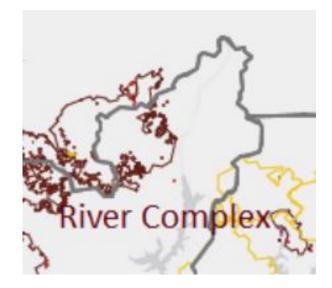


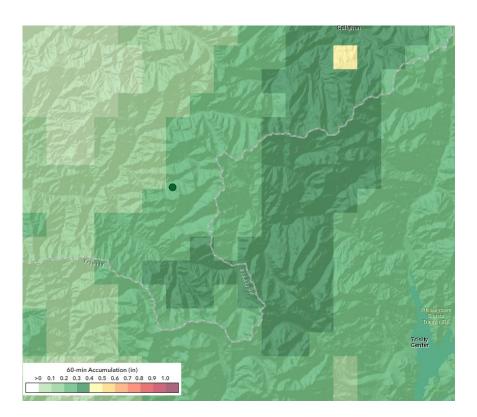
NOAA





weather.gov/eka







- High winds gusting 60 to 75 mph on coastal ridges and headlands in Mendocino and Humboldt
- 4 to 6 inches of rain in Mendocino and Lake, high risk of rock and landslides
- High risk of small stream flooding and along the Russian, Navarro, and Eel rivers
- Storm force winds and high surf along the coast









# PUBLIC MEETING REDWOOD VALLEY EARLY WARNING SIRENS PROJECT



## <u>WHEN</u> January 14, 2023 10:00 AM – 4:00 PM

## WHERE Redwood Valley -Calpella Fire Station 8481 East Road, Redwood Valley, CA 95470

ALL ARE WELCOME AT THIS COMMUNITY OUTREACH AND EDUCATION MEETING

JOIN US FOR A SIREN DEMONSTRATION AND LEARN ABOUT EARLY WARNING SIRENS!

PROJECT SCOPE, SCALE, AND TIMELINES TO BE DISCUSSED

FOR MORE INFORMATION PLEASE CONTACT: CTC MASS NOTIFICATION (509) 630-6266 ctc@ctcmassnotification.com

