

Appendix A
Meteorological Data
Before and During Burn



A.1 OCTOBER 20–24 MET CHAT FORMS

Prescribed Burn Met Chat

Date: 20 October 2003 Time: 3:35 pm

Talked with: Dennis, Duty Meteorologist CARB

From: Kent Field

Discussion Notes: We talked about the upcoming weekend weather. It is a complicated pattern with a lot of upper and lower atmospheric influences. And since there are a lot of possible flies in the ointment we discussed what would happen if the cut-off low that is progged to move from Utah to southern California on Sunday-Monday does not happen, etc. Dennis thought Sunday would be the best day for us, but I explained that the proximity of the High and the cut-off Low would allow for better mixing on Saturday, and I cannot be confident in the location and movement of a cut-off Low on Sunday-Monday, too chancey. I told him that I would be asking ARB for a Favorable decision from them on Wednesday for Saturday's burn. He said that it looked good at this point based on atmospheric structure. I told him that I would call again tomorrow.

Tasks / To Do: On Tuesday I will also be talking with the National Weather Service. And of course I am in at least once daily contact with Wendell Nuss.

Prescribed Burn Met Chat

Date: 21 October 2003 Time: 3:55 pm

Talked with: Amy Castello, Duty Meteorologist CARB

From: Kent Field

Discussion Notes: We talked about the weather for Friday and Saturday. I told them that there is no decision yet to Burn or Not Burn. I told them I was waiting to hear, but I would continue on until I heard. I told them that Friday is the best weather day and Saturday is a good backup day. They were concerned with the mixing depth and I told them that based on historical experience, the 850mb pattern, and surface gradient that Friday is the best and that I expect a mixing depth of at least 2000', but it was way to early to really tell. Mixing depth forecasting is too difficult even the night before let alone 3-4 days out. I asked them what CARB would give as outlooks for Friday and Saturday. She said that Friday would be a "maybe" and Saturday would be a "no burn", at this time. She asked what would happen if CARB called a No Burn, would they still burn? I said that if we met the weather prescription that I would go for a burn suggestion, but the actual decision rests with the Army and the rest of the burn team. I told them that the Army would take the No Burn designation into consideration and decide based on the all of the current information. As for now I am continuing with the idea that Friday and Saturday meet our weather prescription for burning. I told them that once I heard the decision to go or not, I would let them know. I told them I would call again tomorrow.

I also talked with Ryan Wolburn of the National Weather Service at Monterey. We talked about the prescription and Ryan agreed that Friday is the best day, and that Saturday would be a good backup. He said that he would be issuing Red Flag warning for Friday and Saturday for the interior of Monterey County, but not the coastal Monterey area. I told him I would talk to him again on Wednesday.

Tasks / To Do:

Prescribed Burn Met Chat

Date: 22 October 2003 Time: 3:55 pm

Talked with: Dennis King, Duty Meteorologist CARB

From: Kent Field

Discussion Notes: I told him that as far as I know, Friday is a Go for burning and Saturday is a follow-up day. The weather forecast via the models is just as I wanted, and the exact situation that I wrote the prescription for. I told them that I expect offshore flow in the morning NE to E 5-15, temperatures 65-75F, RH 20%, mixing depth greater than 2000'. They did not agree with the mixing depth. I asked them what their, CARB, decision would be for Friday and Saturday, he said at this point it would be No Burn for Friday and No Burn for Saturday. He said he would be coming to Monterey Thursday evening, he had two meetings to attend. I told him that I would forward the No Burn designation and the Army could make the determination from there. I told him I would call again Thursday afternoon for the burn day decision.

Prior to talking to CARB I talked with Wendell Nuss, and I also talked with Ryan Wolburn (NWS MRY). Wendell said the weather for Friday is exactly like we would want for a burn day, winds, mixing height. Ryan Wolburn said similar things, he said it doesn't get much better than this, meaning Friday's weather and meeting our weather prescription and smoke dispersion concerns.

Tasks / To Do: Inform Army of CARB's decision of No Burn for Friday and No Burn for Saturday.

Prescribed Burn Met Chat

Date: 23 October 2003 Time: 10a-4pm

Talked with: Arndt Lornzen and Gary Hancoop,
Duty Meteorologist CARB

From: Kent Field

Discussion Notes: I received a call on my drive to Ft. Ord from Arndt and GaryH. They had a problem with understanding where and how I was figuring that Ft. Ord would have a mixing height greater than 1500' on Friday (24Oct03). I told them that I was basing my decision on the atmospheric models and my interpretation and experience of them and how they have been relating to Ft. Ord weather. I told them that I expected a mixing height of 2000' by 11 a.m.. I was also basing my opinion on a special model run I had Wendell Nuss run for me the day before, and Wendell came up with mixing heights of 1900'-2800', I gave them this information. Their meteorologists did not agree with Wendell and I, and they had a problem with it. I suggested we take the meteorologist subjectivity out of the equation by having Wendell run the model again and then we can talk about the results. They liked that idea, I told them I would call them back. I hung up from them and called Wendell and asked him to run the current model. I called CARB back and left a voice mail that said Wendell was going to run the model and I would call back in an hour or two with the results. Wendell called back two hours later, he said the conservative model results showed mixing height 1500'-2000' by 11a.m. Friday morning. I called CARB and Wendell was in on the call, so we could all talk at once, we believed the mixing height would be greater than 1500' and they believed it would be less than 1500'. Stalemate. They said they would think about it and I said I would call back at 3:30p. I called back, and after some conversation they decided that Friday, 24Oct03 is a No Burn for Ft. Ord. I forwarded the information to the Army and the burn team.

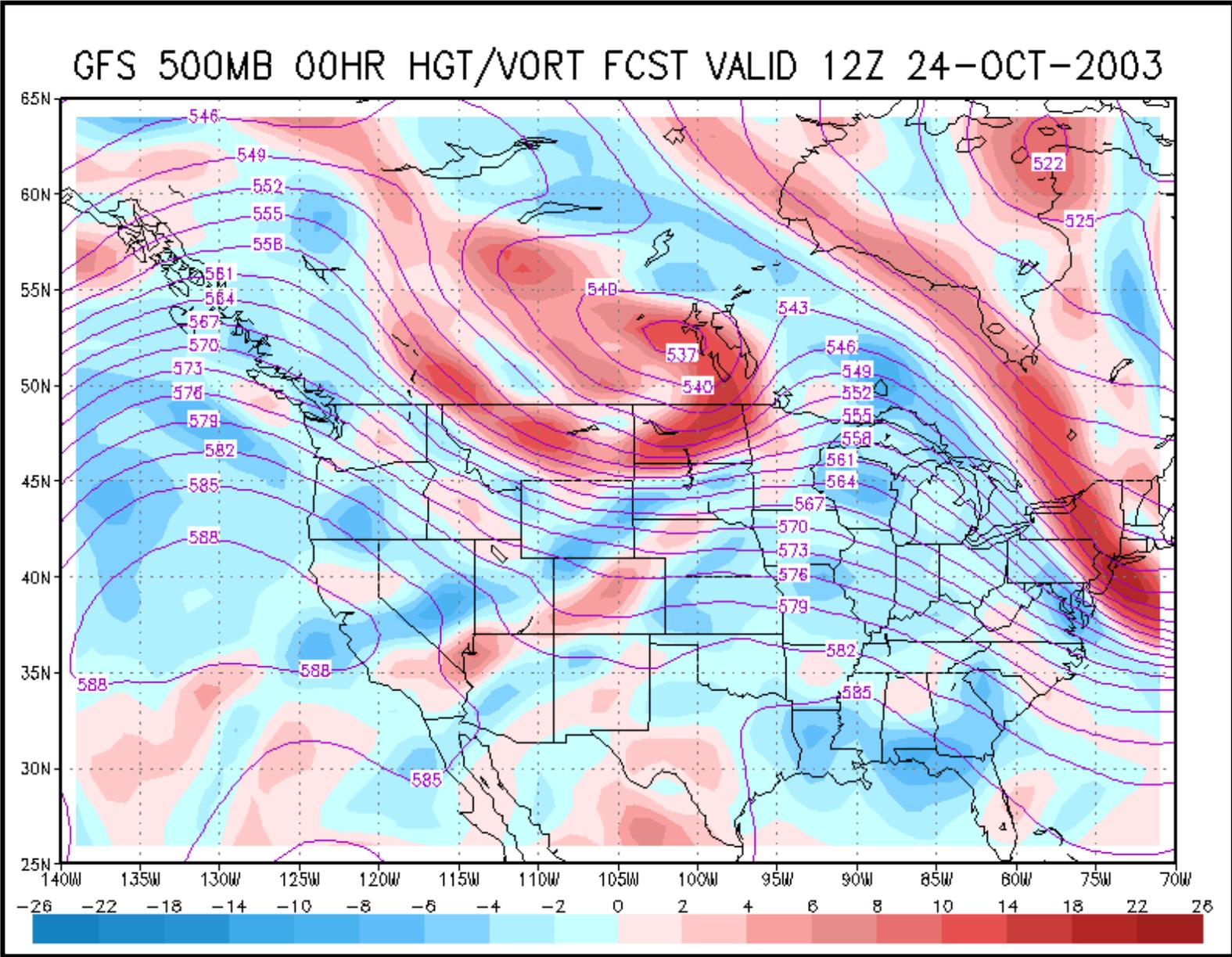
Date: 24 October 2003 Time: 4 pm

Talked with: Jeff, Duty Meteorologist CARB

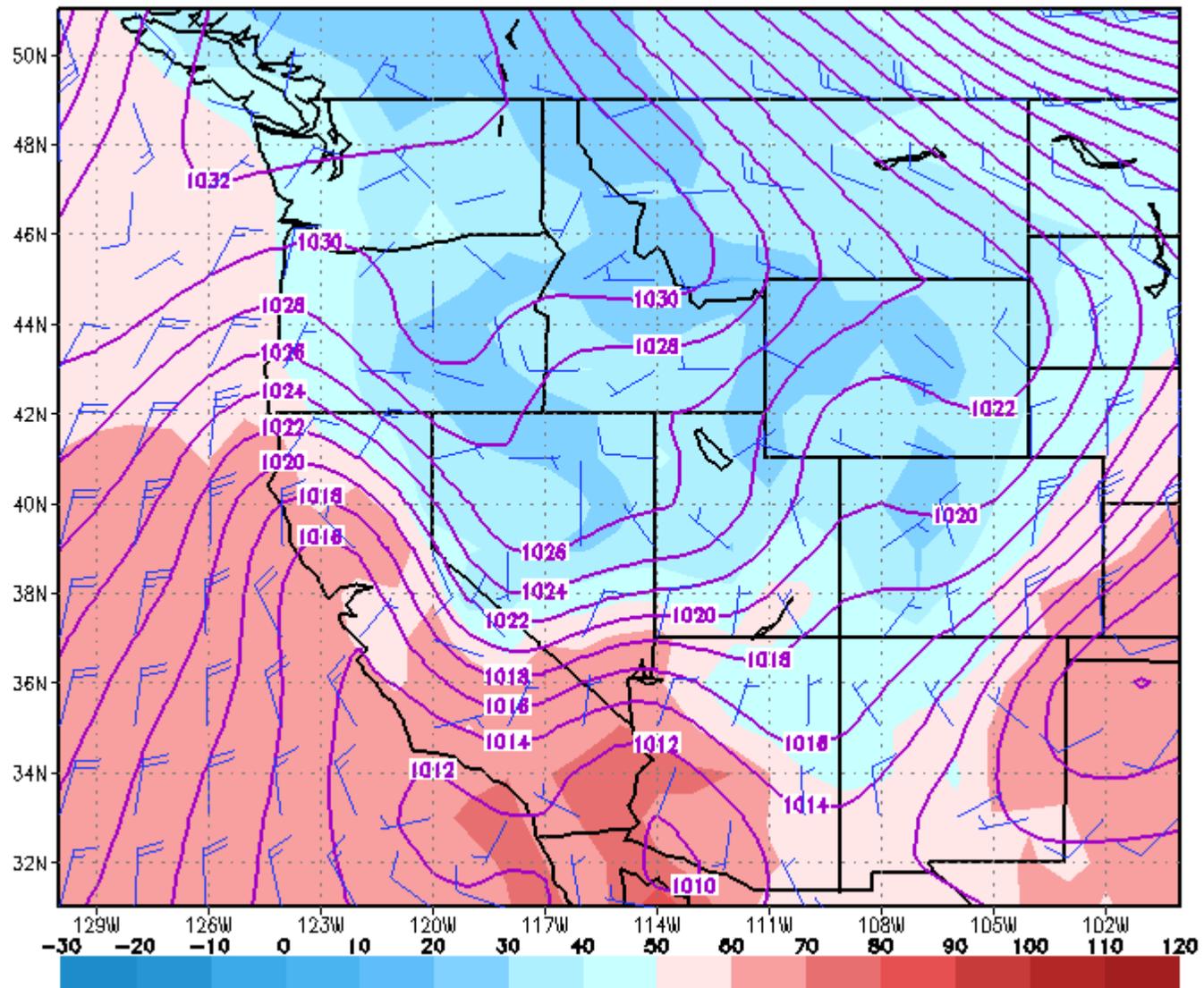
From: Kent Field

Discussion Notes: I called to ask what CARB's decision for Saturday would be. He said it was No Burn for Saturday and No Burn for Sunday.

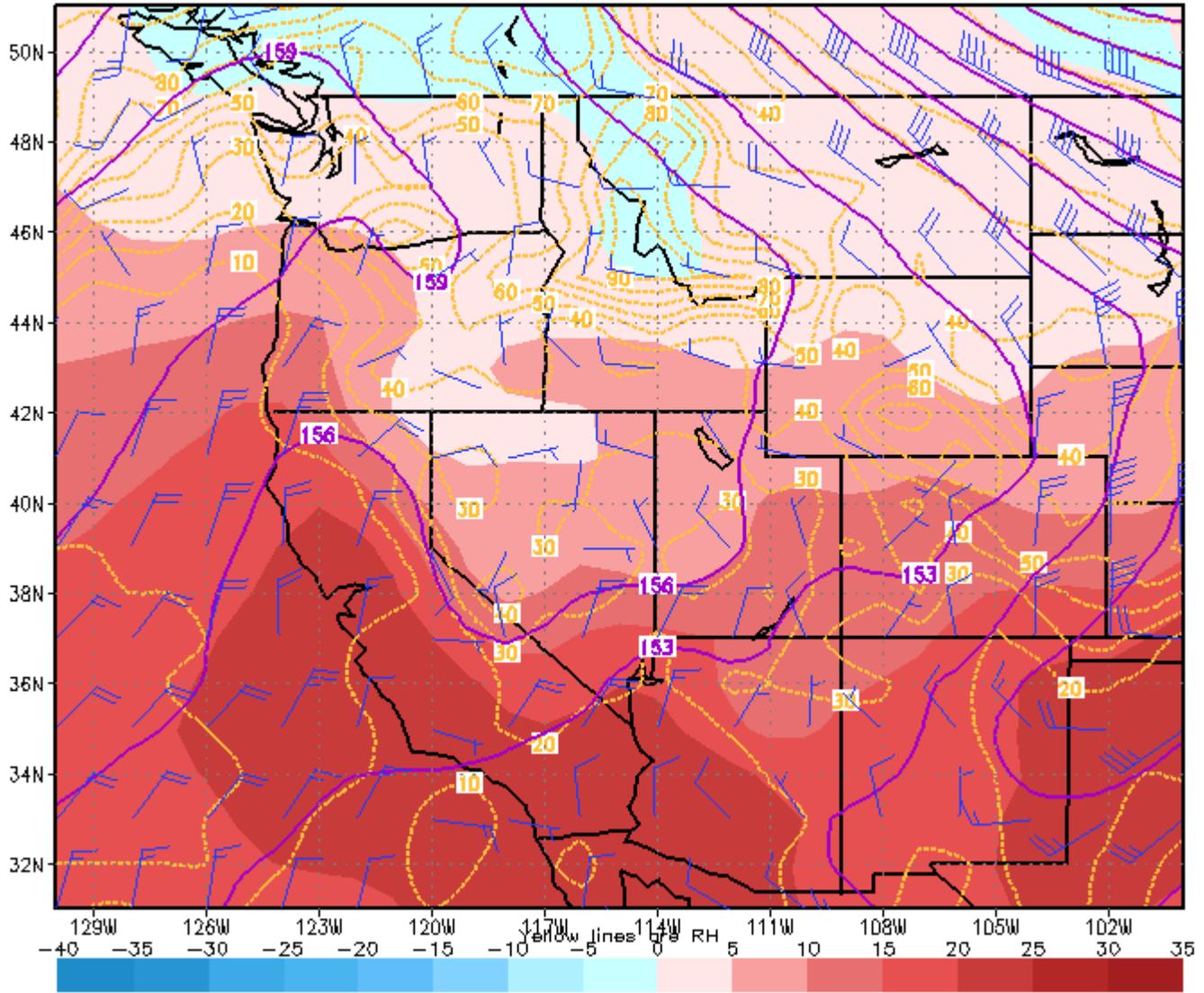
A.2 OCTOBER 24 FORECAST MAPS



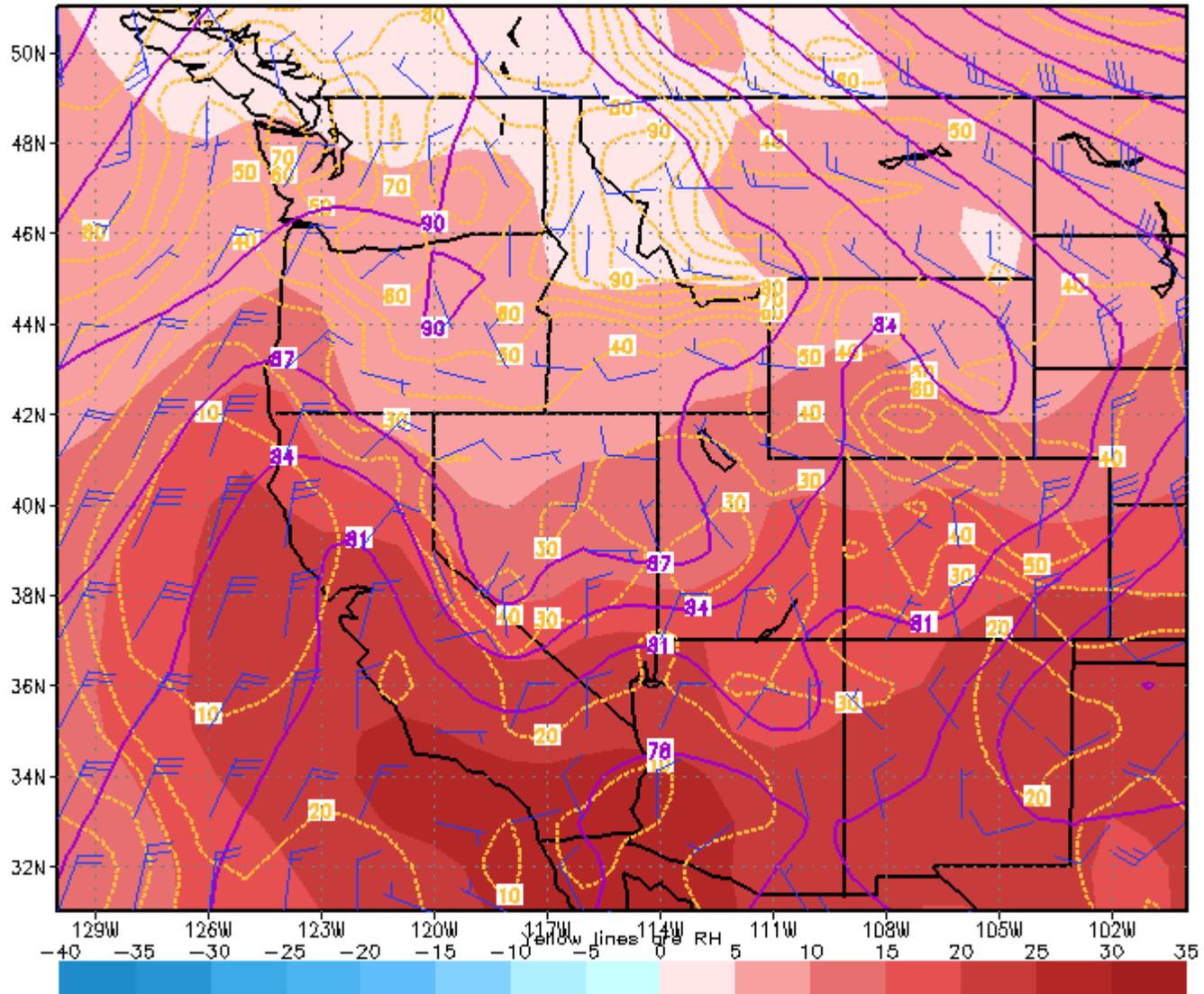
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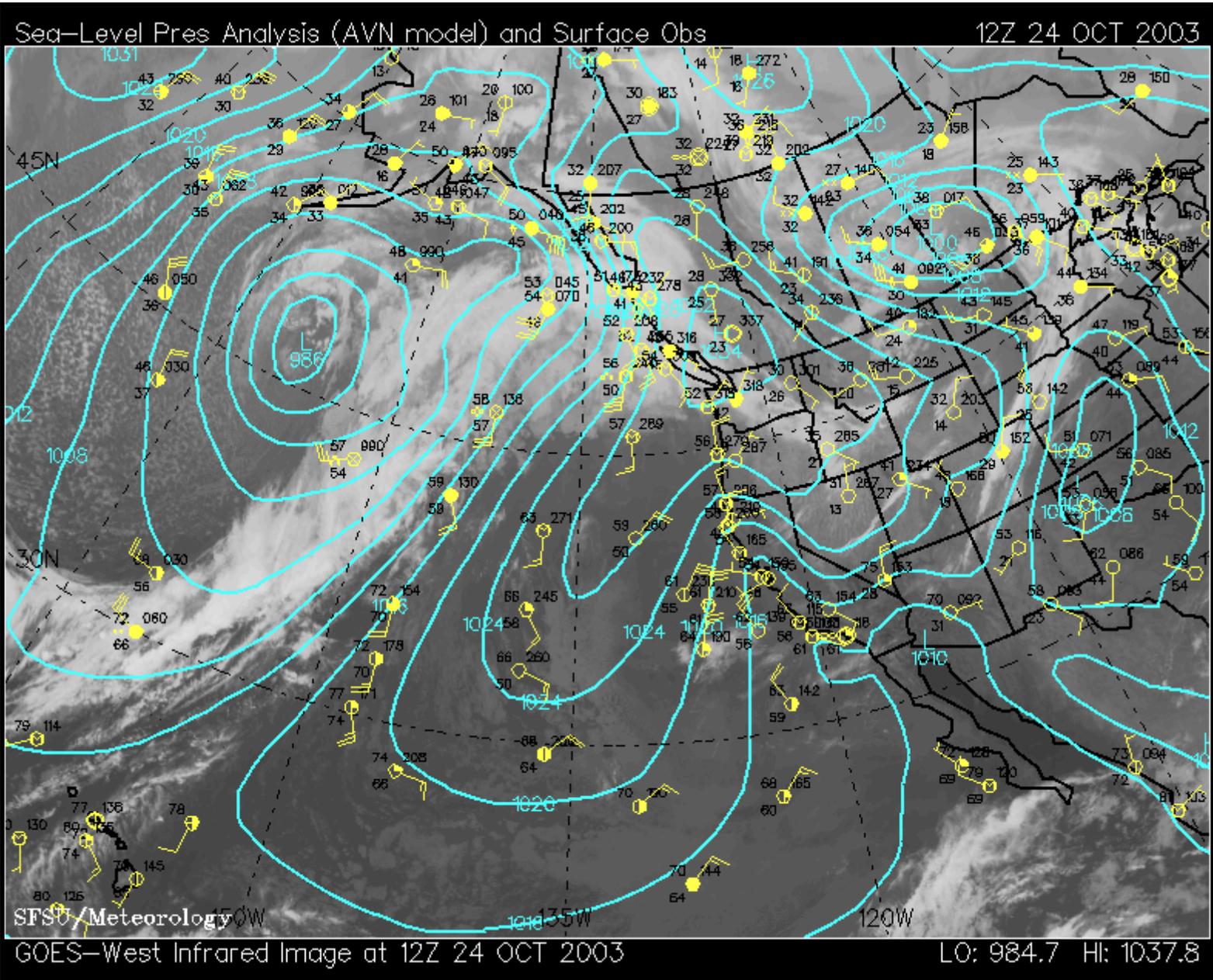


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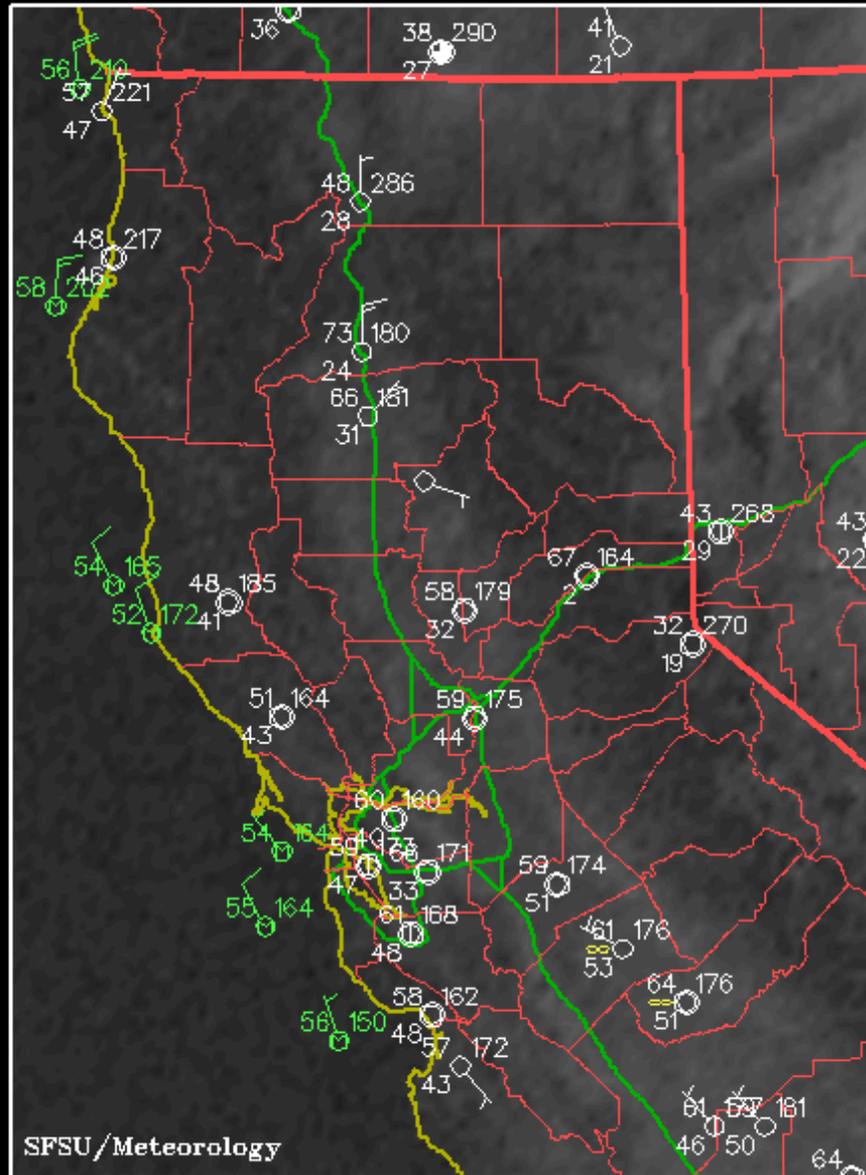
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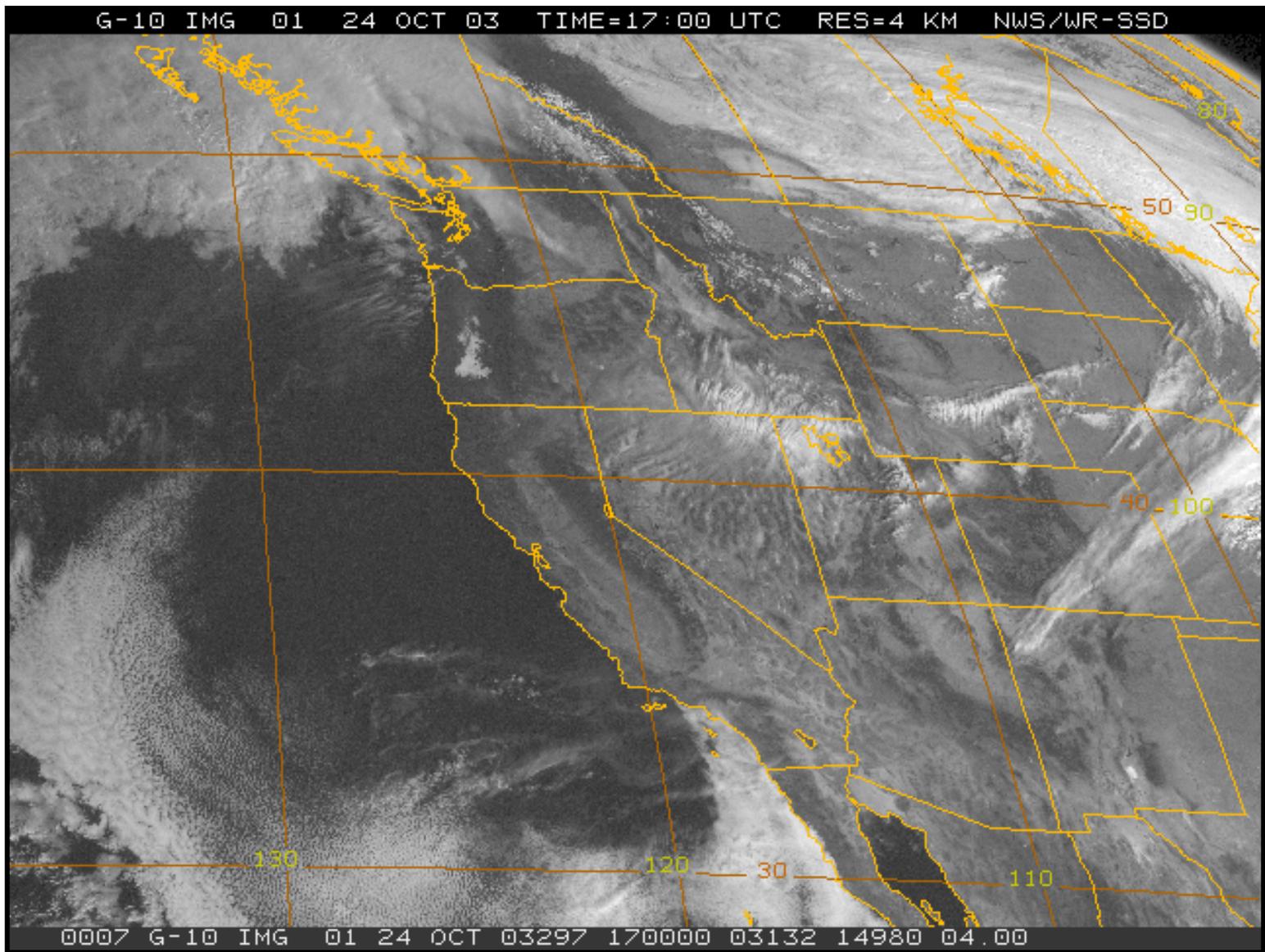


Northern California

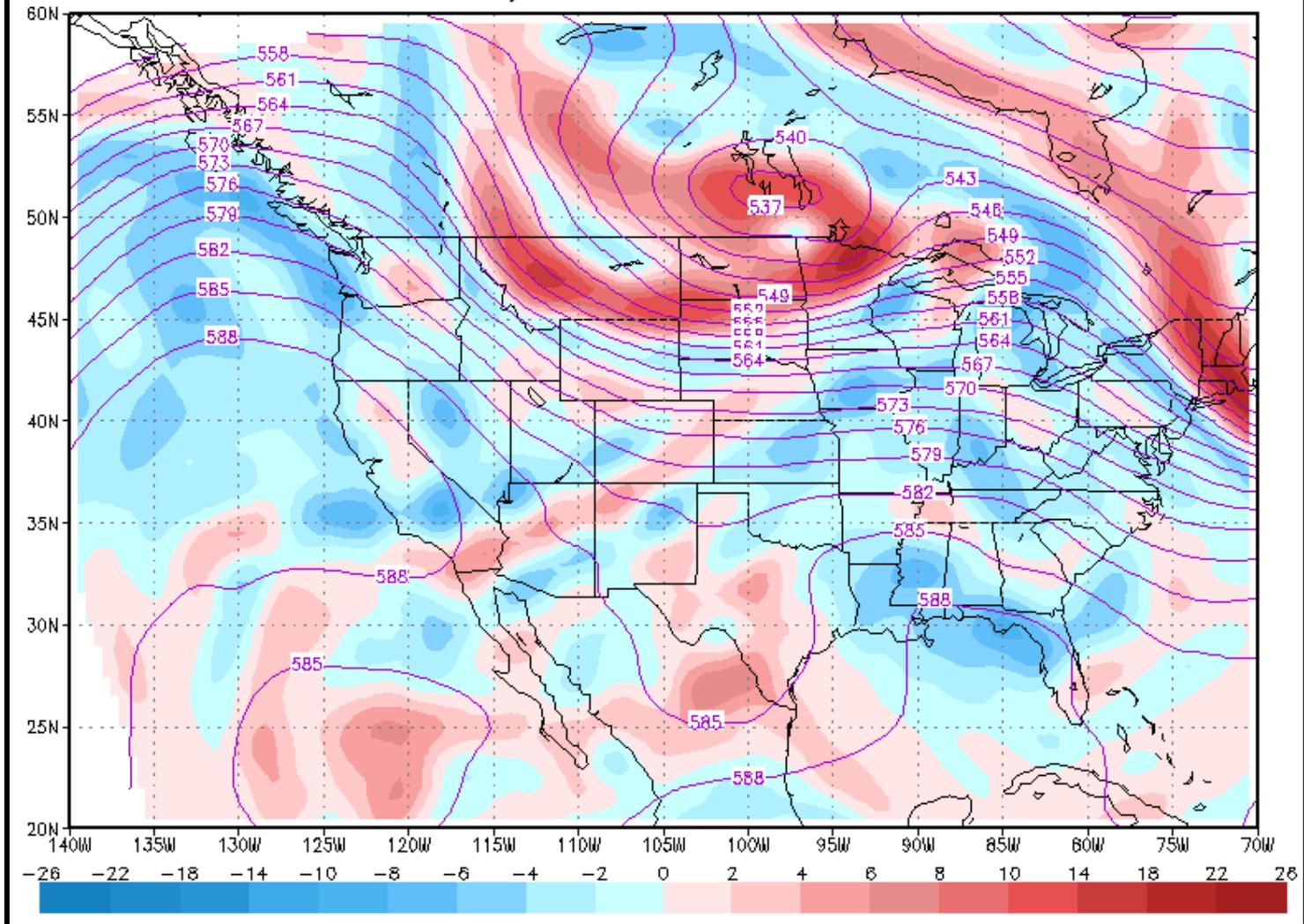
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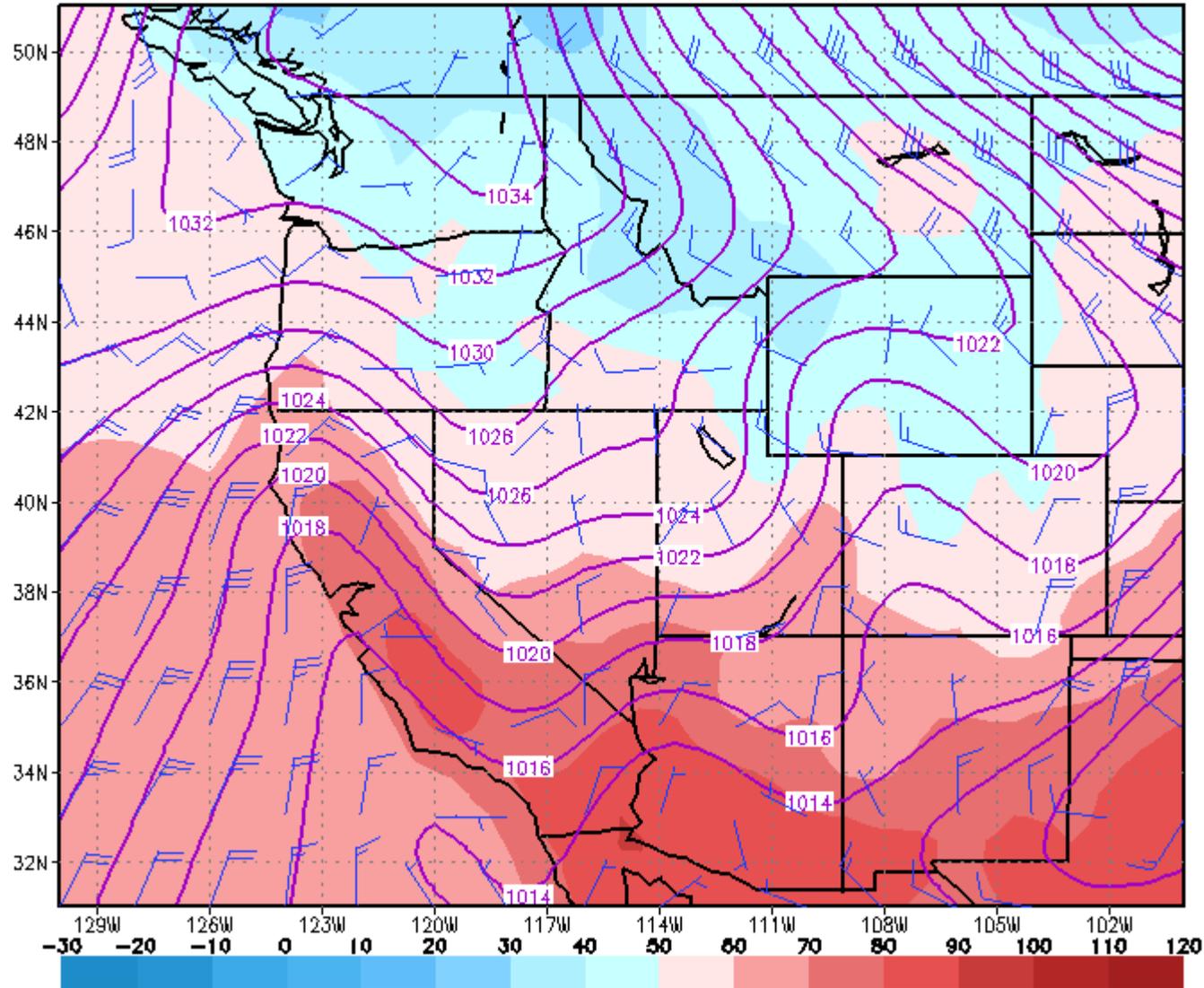
Sfc Obs; Radar; Vis Sat Img SAO data; ships/buoys



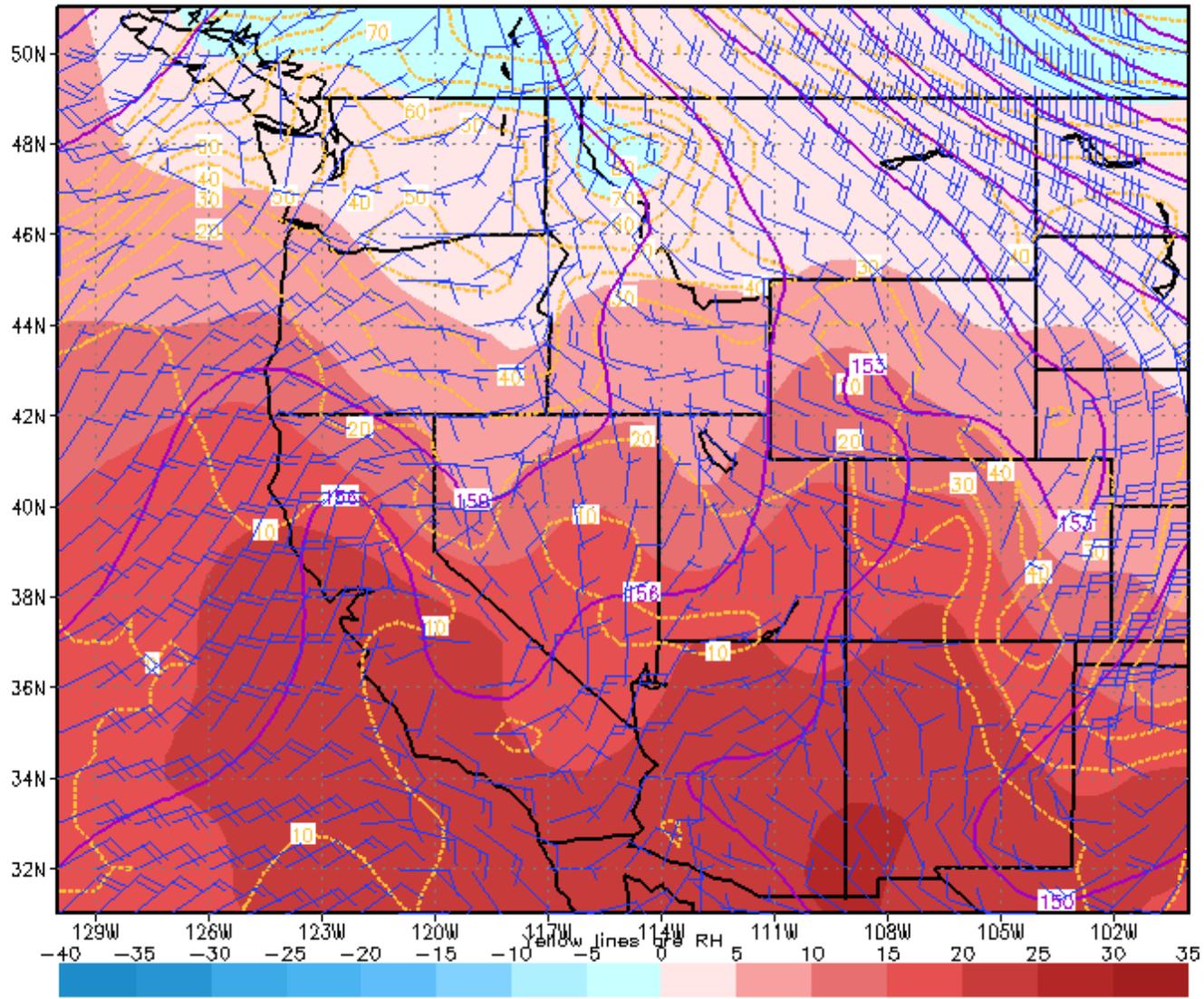
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GFS 00HR SLP/TEMP/WIND FCST VALID 18Z 24-OCT-2003



GFS 00HR 850MB TEMP/RH/WIND FCST VALID 18Z 24-OCT-2003



A.3 FIRE WEATHER FORECASTS OCTOBER 15-31

FIRE WEATHER FORECAST FOR FT. ORD BURN – 15 OCTOBER 2003 (7:00 P.M.)

Prescription Summary: The weather Thursday to Sunday, October 16-19, 2003, does not meet our weather prescription. The weather for Monday to Wednesday, October 20-22, may meet our weather prescription.

Weather Summary: There are a variety of large scale and medium scale weather events changing position and strength during this forecast period. A series of weather systems will be moving through the Pacific Northwest through Sunday. The mild weather pattern over the Ft. Ord area will allow the formation of low clouds and fog night and morning hours, hazy afternoons, and the daily sea breeze. During this forecast period the long-wave Low pressure trough in the eastern Pacific will be retrograding, allowing the High pressure Ridge to move over the Pacific Northwest. In other words, High pressure will be moving into the Pacific Northwest. This will allow for the possibility of offshore (Northeast) winds on Monday to Wednesday. Due to the location and strength of the High pressure area, Ft. Ord will again be on the outer edge of the High's influence. The atmospheric models have not been performing as well as I would like in this scenario, at 5-7 days out. At this point, Monday looks like the best day for meeting our weather prescription. Tuesday is marginal and Wednesday looks doubtful as the position of the High over the western U.S. is more likely to bring back the low clouds and fog. I will be watching this situation closely. Further up stream, a Low pressure weather system moves through northern California on Friday and Saturday of next week giving Ft. Ord another possibility for offshore wind the 26th to 28th.

FIRE WEATHER FORECAST FOR FT. ORD BURN – 19 OCTOBER 2003 (6:00 P.M.)

Prescription Summary: The weather for Monday to Thursday, October 20-23, 2003, does not meet our weather prescription for burning. The weather for Friday, October 24, 2003, may meet our prescription for burning. The weather for Saturday and Sunday, October 25-26, 2003, meets our prescription for burning.

Weather Summary : High pressure dominates the western U.S. on Monday and Tuesday. Skies will be clear, but the diurnal sea breeze will still be present. The High pressure area moves east on Wednesday as a Low Pressure weather system approaches the Pacific Northwest. The Low pressure weather moves through northern California on Thursday. As the Low pressure system moves east it will set up an offshore wind weather pattern for Friday to Sunday. High pressure will be moving into the Pacific Northwest allowing for offshore winds as the Low pressure system moves to the Southeast on Saturday and then Southwestward to southern California by Sunday. This is a very complicated series of interactive events. Should this sequence of events evolve as thought, Ft. Ord will be within it's weather prescription for Friday to Sunday. At this point the best weather for meeting our burn objectives would occur on Saturday. Of course things can change, the weather for this coming week will be watched throughout the day, every day, until this event has passed.

FIRE WEATHER FORECAST FOR FT. ORD BURN – 20 OCTOBER 2003 (7:00 P.M.)

Prescription Summary: The weather for Tuesday to Thursday, October 20-23, 2003, does not meet our weather prescription for burning. The weather for Friday, October 24, 2003, may meet our prescription for burning. The weather for Saturday and Sunday, October 25-26, 2003, meets

our prescription for burning. The best weather day for meeting our burn objectives would be Saturday.

FIRE WEATHER FORECAST FOR FT. ORD BURN – 21 OCTOBER 2003 (8:00 P.M.)

Prescription Summary: The weather for Wednesday to Thursday, October 22-23, 2003, does not meet our weather prescription for burning. The weather for Friday, October 24, 2003, meets our weather prescription for burning. The weather for Saturday, October 25, 2003, meets our weather prescription for burning. The weather for Sunday, October 26, 2003, may meet our weather prescription for burning. The best weather day for meeting our burn objectives would be Friday.

FIRE WEATHER FORECAST FOR FT. ORD BURN – 22 OCTOBER 2003 (9:00 P.M.)

Prescription Summary: The weather for Thursday, October 23, 2003, does not meet our weather prescription for burning. The weather for Friday, October 24, 2003, meets our weather prescription for burning. The weather for Saturday, October 25, 2003, meets our weather prescription for burning. The best weather day for meeting our burn objectives would be Friday.

FIRE WEATHER FORECAST FOR FT. ORD BURN – 24 OCTOBER 2003 (MORNING)

To: Ron Dougherty, FireStop
From: Kent Field

Issued: Friday morning (7 a.m.), 24 October 2003

Summary: High pressure over the Pacific Northwest will cause offshore (NE-E) winds over the Ft. Ord Friday and Saturday. Winds at the surface will be strongest during the morning hours. Afternoon winds will be light offshore with the possibility of a weak sea breeze in the middle of the afternoon. Winds will increase again from the NE Friday evening. Temperatures will be hot in the afternoon, 85-90F. Relative humidity will be 40% at daylight and drop quickly during the morning to 20%. Mixing heights will be low and the layer will be shallow first thing in morning, but as the sun comes up the surface will heat up allowing for a deeper mixed layer reaching 1500'-2500' by 11a.m.

Current conditions:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
6 a.m.	ESE 5-10	58-64F	40-50%	Clear

Fire Weather Forecast:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
7a.m.-9a.m.	E 5-10	60-70F	30-40%	Clear
9a.m.-11a.m.	NE-E 5-10G15	70-80F	20-30%	Clear
Noon-2p.m.	NE-E 5-10	80-90F	20%	Clear
	Chance of NW-W 5-10 after 1 p.m.			
3p.m.-5p.m.	NE-E 5-10	70-80F	30%	Clear
5p.m.-8p.m.	NE-E 5-10G15	65-75F	30%	Clear

FIRE WEATHER FORECAST FOR FT. ORD BURN – 24 OCTOBER 2003 (AFTERNOON AND EVENING)

To: Ron Dougherty, FireStop
From: Kent Field

Issued Friday afternoon (1 p.m.), 24 October 2003

Summary: High pressure over the Pacific Northwest will continue to cause offshore (NE-E) winds over Ft. Ord Friday afternoon and Saturday. Afternoon and evening winds will be ENE, with a chance of Northwesterly sea breeze winds until sunset. Temperatures will be in the low to mid 80's Friday, decreasing to the 60's Friday night. RH values will remain low, 20% in the afternoon and early evening increasing to 40% by midnight.

Saturday will continue with the offshore ENE winds with a trend during the early morning hours to be ESE until sunrise. Saturday afternoon winds will continue from the ENE, with the possibility of NW sea breeze winds after 1p.m. until sunset. Temperatures will range from a low of 60F to high temperatures 85-90F in the afternoon. RH values will decrease from a early morning high of 50% to a mid-morning to afternoon low of 20%.

Date: Friday, 24 October 2003

Current conditions:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
1p.m.	ENE 10G20	80F	18%	Clear

Fire Weather Forecast:

Friday:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
1p.m.-2p.m.	ENE 10G20	80-85F	20%	Clear
	Chance of NW-W 5-10 after 1 p.m. until 6p.m.			
3p.m.-5p.m.	ENE 5-10G15	70-80F	20-30%	Clear
5p.m.-8p.m.	ENE 5-10G15	65-75F	30%	Clear
9p.m.-12a.m.	E-ESE 5-10	60-65F	40%	Clear

Saturday:

1a.m.-7a.m.	E-ESE 5-10G15	55-60F	40-50%	Clear
8a.m.- 10a.m.	E-ENE 5-10G20	55-75F	30%	Clear
11a.m.-1p.m.	E-ENE 5-10G20	80-90F	20%	Clear
	chance of NW 5-10 after 1p.m. until 6p.m.			
2p.m.-5p.m.	E-ENE 5-10G15	85-90F	20%	Clear

FIRE WEATHER FORECAST FOR FT. ORD BURN – 25 OCTOBER 2003

To: Ron Dougherty, FireStop
From: Kent Field

Issued Saturday Morning (8 a.m.), 25 October 2003

Summary: High Pressure continues over the Pacific Northwest causing strong Easterly winds this morning into early afternoon. The easterly winds will give way to the sea breeze this afternoon. Temperatures will be hot today with high's near 90F. Relative humidity this morning will be low (15-20%) this morning with a slight recovery this afternoon with the sea breeze. Easterly winds again late tonight into Sunday morning, but less intense than today. There will be earlier onset of the sea breeze by Sunday late morning.

Date: Saturday, 25 October 2003

Current conditions:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
8 a.m.	E 10G20	60F	40%	Clear

Fire Weather Forecast:

Saturday:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
8a.m.- 10a.m.	E-ENE 10-20G30	60-75F	20-30%	Clear
11a.m.-1p.m.	E-ENE 10-20G30	80-95F	15-20%	Clear
	chance of NW 5-10 after 1p.m. until 8p.m.			
2p.m.-5p.m.	W-NW5-10	85-95F	20-30%	Clear
6p.m.-9p.m.	W-NW5-10	65-75	30-40%	Clear

Issued Saturday Evening (5 p.m.), 25 October 2003

Summary: High Pressure continues to dominate our weather pattern. The surface High pressure area is moving east towards Utah by Sunday morning. This shift will relax the offshore flow for Ft. Ord and shift it to the Southeast. We can expect Southeast winds tonight through Sunday morning. Sunday will see even hotter temperatures during the afternoon. The sea breeze will come in late Sunday morning and remain into the afternoon. Relative humidity will recover some tonight to 50%, but decrease rapidly again Sunday morning.

Issued Saturday Afternoon (5 p.m.), 25 October 2003

Current conditions:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
4 p.m.	W 5-10	83-88F	25%	Clear

Fire Weather Forecast:

Saturday:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
5p.m.-7p.m.	W-NW 5-10	75-85F	30-40%	Clear
7p.m.-9p.m.	SE 5-10	65-75F	30-40%	Clear
10p.m.-12a.m.	SE 5-10	65-70F	30-40%	Clear

Sunday:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
1a.m.-6a.m.	SE 5-10G15	55-60F	40-50%	Clear
7a.m.-10a.m.	SE 5-10G15	60-80F	30-40%	Clear
11a.m.-1p.m.	W 5-10G15	80-95F	20-30%	Clear
2p.m.-5p.m.	W 5-10G15	80-95F	20-30%	Clear

FIRE WEATHER FORECAST FOR FT. ORD BURN – 26 OCTOBER 2003

To: Ron Dougherty, FireStop
From: Kent Field

Issued Sunday Evening (5p.m.), 26 October 2003

Summary: The upper level High Pressure continues to dominate our weather pattern. Surface pressure gradients strengthen briefly Monday morning allowing for the possibility of mild to moderate Northeast winds for a short period during the morning. Otherwise, normal diurnal wind patterns can be expected with southeasterly winds during the morning hours until the westerly sea breeze takes hold by late Monday morning and continues until sunset. High temperatures will be in the 80's to near 90. There will be some RH recovery over night to 50+%, but that will be short lived as RH values drop rapidly Monday morning to 20-30% by 9a.m.

Current conditions:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
5 p.m.	W5G12	83F	25%	Clear

Fire Weather Forecast:

Sunday:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
6p.m.- 9p.m.	SE2-10	65-75F	40%	Clear
10p.m.-12a.m.	SE2-8	60-70F	40-50%	Clear

Monday:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
1a.m.-6a.m.	SE5-10G15 chance of NE-E 5-10G15 from 5 a.m. until 10 a.m.	55-60F	40-50%	Clear
7a.m.-10a.m.	SE 5-10G15	60-75F	30-40%	Clear
11a.m.-1p.m.	W 5-10G15	80-90F	20-30%	Clear
2p.m.-5p.m.	W 5-10G15	80-90F	20-30%	Clear
6p.m.- 9p.m.	SE2-10	65-75F	30-40%	Clear
10p.m.-12a.m.	SE2-8	55-65F	40-50%	Clear

FIRE WEATHER FORECAST FOR FT. ORD BURN – 27 OCTOBER 2003

To: Ron Dougherty, FireStop
From: Kent Field

Issued Monday Morning (7 a.m.), 27 October 2003

Summary: The upper level High Pressure continues to dominate our weather pattern. Surface pressure gradients strengthen briefly this morning allowing for the possibility of mild to moderate Northeast winds for a short period during the morning. Otherwise, normal diurnal wind patterns can be expected with southeasterly winds during the morning hours until the westerly sea breeze takes hold by late Monday morning and continues until sunset. Afternoon temperatures will remain hot with 90-95F around 1-2 p.m.. RH values remained near 30% overnight and will drop to 20% by 9 a.m. and remain low through the day.

The high temperatures and low RH will be going away on Wednesday as the High Pressure over the area dissipates allowing milder temperatures and better RH recovery Wednesday to Friday.

Current conditions:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
4 a.m.	SE5G10	68F	25%	Clear

Fire Weather Forecast:

Monday:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
7a.m.-10a.m.	SE 5-10G15 chance of NE-E 5-10G15 from 7 a.m. until 10 a.m.	60-75F	30-40%	Clear
11a.m.-1p.m.	NW-W 5-10G15	85-95F	20-30%	Clear
2p.m.-5p.m.	NW-W 5-10G15	80-95F	20-30%	Clear
6p.m.- 9p.m.	SE2-10	65-75F	30-40%	Clear
10p.m.-12a.m.	SE2-10	55-65F	40-50%	Clear

FIRE WEATHER FORECAST FOR FT. ORD BURN – 28 OCTOBER 2003

To: Ron Dougherty, FireStop

From: Kent Field

Issued Tuesday Morning (6 a.m.), 28 October 2003

Summary: The upper level High Pressure continues to dominate our weather pattern. Surface pressure gradients strengthen briefly again this morning allowing for the possibility of mild Northeast winds for 1-2 hours during the morning. Otherwise, normal diurnal wind patterns can be expected with southeasterly winds during the morning hours until the westerly sea breeze takes hold by late Tuesday morning and continues until sunset. Afternoon temperatures will warm with 85F around 1-2 p.m.. RH values remained near 30% overnight and will drop to 20% by 9 a.m. and remain low through the day. As the High pressure area diminishes in strength we will begin to see some RH recovery late tonight into Wednesday morning.

A Low pressure weather system approaches the California coast on Thursday, bringing the possibility of occasional rain Thursday night through Wednesday of next week. To begin this change, clouds will be moving in Thursday afternoon bringing light to moderate rain late Thursday night into Friday morning.

Current conditions:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
4 a.m.	SE1-5G10	64-68F	30%	Clear

Fire Weather Forecast:

Tuesday:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
7a.m.-10a.m.	SE 1-5G10 chance of NE-E 5-10 from 7 a.m. until 10 a.m.	60-75F	20-30%	Clear
11a.m.-1p.m.	NW-W 5-10G15	75-85F	20-30%	Clear
2p.m.-5p.m.	NW-W 5-10G15	70-85F	20-30%	Clear
6p.m.- 9p.m.	S-SW 2-10	60-70F	30-40%	Clear
10p.m.-12a.m.	S-SE 2-10	55-65F	40-50%	Clear

FIRE WEATHER FORECAST FOR FT. ORD BURN – 29 OCTOBER 2003

To: Ron Dougherty, FireStop
From: Kent Field

Issued Wednesday Morning (6 a.m.), 29 October 2003

Summary: A Low pressure weather system will be moving into Northern California later today. The Northwest winds this afternoon will be the first sign of it moving toward Ft. Ord. Today the winds will increase out of the Northwest as the system moves closer. Temperatures will be cooler with high temperatures near 70F. RH will also be higher today reaching a low of 40-50% this afternoon and recovering quickly this evening after sunset to 60-80%.

Thursday will continue breezy with Northwest winds 10-20 mph. Clouds will be moving in as the day progresses. There will be light to moderate rain late Thursday night into Friday morning. Rainfall amounts for this event will be less than a quarter of an inch (<0.25”).

This large scale Low pressure weather system will remain over Ft. Ord into next week bringing occasional cloudy skies and rain showers. High temperatures will be 50-60F through the period. RH will be 60-100% for the period. The next chance for rain is Monday.

Current conditions:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
4 a.m.	SE2-5	51F	78%	Clear

Fire Weather Forecast:

Tuesday:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
7a.m.-9a.m.	SE 1-5G10	55-65F	60-70%	Patchy Low Cls
10a.m.-1p.m.	NW-W 5-10G15	65-70F	50%	Clear/Haze
2p.m.-5p.m.	NW-W 5-15G20	65-70F	40-50%	Clear/Haze
6p.m.- 9p.m.	NW 5-15G20	55-60F	50-60%	Clear/Haze
10p.m.-12a.m.	NW 5-15G20	47-52F	60-80%	Patchy Low Cls

FIRE WEATHER FORECAST FOR FT. ORD BURN – 30 OCTOBER 2003

To: Ron Dougherty, FireStop
From: Kent Field

Issued Thursday Morning (6 a.m.), 30 October 2003

Summary: A Low pressure weather system is moving southeasterly through Northern California this morning. This system will move through the Ft. Ord area later tonight. As the system approaches winds will be strong and steady through the day from the Northwest. Clouds will move into the area today bringing light rain late tonight into Friday morning. Rainfall amounts will be light, less than a tenth of an inch (<0.10”).

Weather conditions will continue to be unsettled as the large scale Low pressure weather system remains over the area into next week. The next chance of rain appears to be Monday.

Current conditions:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
4 a.m.	WNW10G20	50F	79%	Clear

Fire Weather Forecast:

Tuesday:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
7a.m.-9a.m.	WNW 10-15G25	50-55F	70-80%	Few Cls
10a.m.-1p.m.	WNW 10-15G25	55-60F	70-80%	Ptly Cldy
2p.m.-5p.m.	WNW 10-15G25	50-60F	70-800%	Cldy
6p.m.- 9p.m.	WNW 5-10G20	50-55F	70-80%	Cldy chcRain
10p.m.-12a.m.	WNW 5-10G20	45-55F	80-100%	Cldy/lgt Rain

FIRE WEATHER FORECAST FOR FT. ORD BURN – 31 OCTOBER 2003

To: Ron Dougherty, FireStop
From: Kent Field

Issued Friday Morning (6 a.m.), 31 October 2003

Summary: A Low pressure weather system is moving through the area this morning. This weather system will bring different intensities of rain this morning from light to heavy as individual cells move through the area. The rain will end by late morning as the system moves to the south. Skies will remain mostly cloudy this afternoon. Temperatures will be on the cool side with high temperatures in the mid 50's. RH values will remain high 70-100%.

There will be another brief shot of light rain late Sunday night into Monday morning. Temperatures will remain cool into next week.

Current conditions:

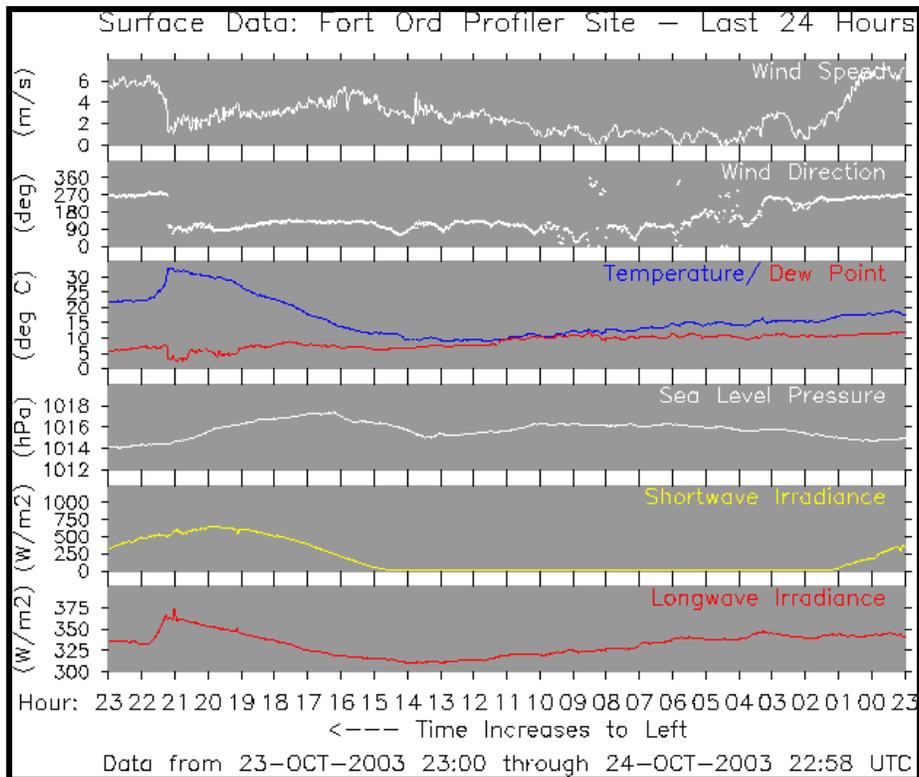
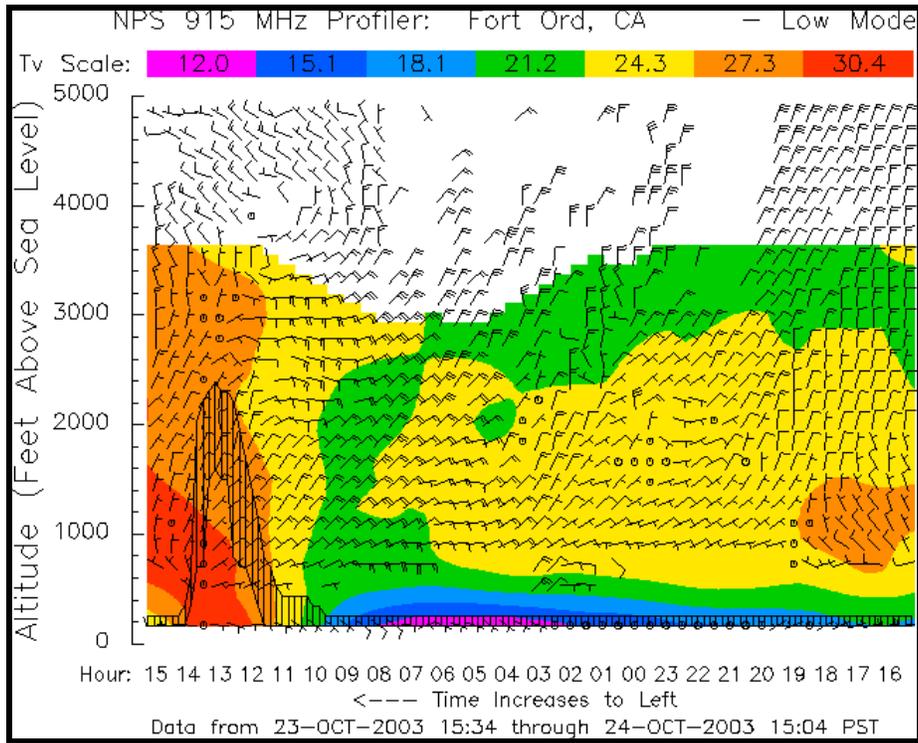
<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
4 a.m.	SSE7-10	45F	80-90%	Cloudy

Fire Weather Forecast:

Tuesday:

<u>Time</u>	<u>Wind</u>	<u>Temperature</u>	<u>Relative Humidity</u>	<u>Sky</u>
7a.m.-9a.m.	SE-S 5-15	45-55F	80-100%	Cldy/Rain
10a.m.-1p.m.	SW 5-15	50-55F	70-90%	MstlyCldy/Showers
2p.m.-5p.m.	SW-W 5-15	50-55F	70-80%	MstlyCldy
6p.m.- 9p.m.	SW-W 5-10	45-55F	70-80%	PtlyCldy
10p.m.-12a.m.	NW-NE 5-10	40-50F	80-100%	PtlyCldy

A.4 MIXING HEIGHT DATA FROM NPS MARINA PROFILER



A.5 METEOROLOGICAL DATA FROM FORT ORD RAWS

Meteorological Data Recorded for October 24

Time	RAWS FO1 (Range 46)				RAWS FO2 (Range 43)			
	Temperature (°F)	Relative Humidity (%)	Wind Speed (MPH)	Wind Direction (°)	Temperature (°F)	Relative Humidity (%)	Wind Speed (MPH)	Wind Direction (°)
6:00 a.m.	59	41	4	114	62	33	9	101
7:00 a.m.	57	39	2	81	65	29	6	72
8:00 a.m.	51	63	4	101	53	52	8	93
9:00 a.m.	68	30	8	78	69	29	6	75
10:00 a.m.	72	26	15	73	73	26	9	77
11:00 a.m.	76	23	13	68	76	23	9	70
12:00 p.m.	80	18	10	69	80	18	9	71
1:00 p.m.	86	20	10	40	86	18	9	58
2:00 p.m.	86	18	7	45	86	17	7	47
3:00 p.m.	75	30	7	284	78	26	6	285
4:00 p.m.	77	24	6	288	79	22	6	297
5:00 p.m.	70	38	5	266	75	32	4	270
6:00 p.m.	72	34	2	256	72	30	3	179
7:00 p.m.	61	60	1	239	64	50	2	208
8:00 p.m.	63	37	3	123	70	22	3	99
9:00 p.m.	66	29	5	88	71	25	6	71
10:00 p.m.	68	28	5	107	71	27	4	77
11:00 p.m.	67	30	3	107	71	25	4	79

Meteorological Data Recorded for October 25

Time	RAWS FO1 (Range 46)				RAWS FO2 (Range 43)			
	Temperature (°F)	Relative Humidity (%)	Wind Speed (MPH)	Wind Direction (°)	Temperature (°F)	Relative Humidity (%)	Wind Speed (MPH)	Wind Direction (°)
12:00 a.m.	63	33	4	128	70	26	5	122
1:00 a.m.	59	36	6	11	68	29	8	110
2:00 a.m.	61	36	5	121	63	31	5	105
3:00 a.m.	60	40	6	112	64	33	9	84
4:00 a.m.	58	45	6	113	59	34	6	100
5:00 a.m.	53	53	11	84	56	51	7	76
6:00 a.m.	56	49	9	106	60	45	14	105
7:00 a.m.	58	45	9	121	62	40	7	92
8:00 a.m.	57	51	7	116	57	45	8	89
9:00 a.m.	64	41	7	108	65	42	9	97
10:00 a.m.	72	38	9	85	71	37	7	80
11:00 a.m.	79	31	12	69	79	31	9	69
12:00 p.m.	86	25	7	97	86	25	7	96
1:00 p.m.	91	24	5	20	87	26	6	21
2:00 p.m.	83	26	5	257	83	25	6	262
3:00 p.m.	86	23	4	280	88	21	5	303
4:00 p.m.	86	25	6	289	88	22	7	287
5:00 p.m.	72	44	6	296	72	41	4	307
6:00 p.m.	66	45	2	312	68	43	4	300
7:00 p.m.	65	47	3	142	64	47	3	161
8:00 p.m.	64	40	3	142	71	32	3	152
9:00 p.m.	63	36	3	139	71	28	4	132
10:00 p.m.	63	34	2	123	71	25	4	135
11:00 p.m.	62	34	1	147	71	27	2	129

Meteorological Data Recorded for October 26

Time	RAWS FO1 (Range 46)				RAWS FO2 (Range 43)			
	Temperature (°F)	Relative Humidity (%)	Wind Speed (MPH)	Wind Direction (°)	Temperature (°F)	Relative Humidity (%)	Wind Speed (MPH)	Wind Direction (°)
12:00 a.m.	63	34	5	118	68	29	6	101
1:00 a.m.	65	32	5	113	65	29	9	103
2:00 a.m.	61	37	6	111	65	33	5	102
3:00 a.m.	59	44	7	120	61	44	7	132
4:00 a.m.	58	38	4	132	63	36	8	128
5:00 a.m.	61	38	6	120	62	41	5	124
6:00 a.m.	55	51	5	120	60	46	8	127
7:00 a.m.	59	39	5	151	66	35	4	134
8:00 a.m.	68	32	5	133	71	34	4	144
9:00 a.m.	81	25	5	59	79	27	4	52
10:00 a.m.	81	27	6	55	80	27	6	50
11:00 a.m.	83	26	7	60	84	26	7	46
12:00 p.m.	88	21	2	150	87	21	4	356
1:00 p.m.	90	21	5	292	90	19	6	312
2:00 p.m.	87	20	7	292	91	18	8	286
3:00 p.m.	82	23	5	267	87	20	5	270
4:00 p.m.	83	24	5	302	87	24	4	322
5:00 p.m.	70	38	7	306	68	39	7	324
6:00 p.m.	66	35	4	224	65	35	4	216
7:00 p.m.	65	39	3	143	64	37	5	160
8:00 p.m.	64	40	2	144	70	30	4	157
9:00 p.m.	65	34	2	144	68	30	8	154
10:00 p.m.	66	29	4	135	74	25	5	136
11:00 p.m.	67	28	3	119	73	23	3	114