

NORTHEAST OREGON SMOKE INTRUSION REPORT

Date of Intrusion: 9/26 – 9/27 **Area Impacted:** City of La Grande

Time Impact Began: 9/26/06 2100 BSCAT of 2.30 (Moderate)
9/26/06 2200 BSCAT of 7.7 (Heavy)

Number of Hours of Impact: 9/26 – 9/28, 14 hours moderate, 19 hours of heavy intrusion. *Neph shows 100+ hours of impact, total*

Were impacts: Measured on nephelometer: Yes
 Visually observed: Yes
 Reported by public: Yes
 Other (describe): _____

Duration of impact: 33 hours.

Minimum reported visibility > 1 mile *PM2.5 ($\mu\text{g}/\text{m}^3$)*
Maximum nephelometer value of 309.5 occurred at 0300 on 9/27

Average nephelometer values:

For the three hours before the impact began: .54

For the three hours after the impact ended: .67

DESCRIPTION OF BURN (S)

Smoke management Number	Acres	Tons Burned	Legal Description	Ignition Date/Time
065061018108	2000	6440	T2 S R 36E Sec 29	9/25 1100
064061018109	1500	11076	T3 S R 35E Sec 2	9/25 1100

COMMENTS: (Were the forecasts/instructions adequate? Any suggestions to avoid a recurrence? Multi-day burning? Aerial extent of burning? Other burning?)

Information shared between the forecaster and the requesting burn agency needs to be thorough enough that both parties have the same understanding of what the plan is, especially if a written forecast from the internet is not available. Things to discuss in detail include: size of burn units, location (emphasizing distance to smoke sensitive areas), anticipated total number of burn days, acres per day, expected tons per acre, expected smoldering into the night and potential diurnal flow, and other pertinent environmental conditions. The forecaster's instruction should be in writing and include the burn info that was given to them by the requesting burn agency.

Other recommendations would be to layout units to accommodate burning smaller acres if environmental conditions change and burning needs to be curtailed.

Report prepared by: Trish Wallace, Date: 9/28/06
Forest or District: WWNF, La Grande R.D. Phone: 541-962-8553
Edit/Review by: Ken Rockwell, W-W AFMO Date: 10/3/2006

ODF Smoke Management notified approximately 0900 9/27 of smoke intrusion into LaGrande.
FOR ODF USE: INTRUSION NO. NEO: 06-01

*PRELIMINARY REPORT OF SMOKE INTRUSION

Oregon Department of Forestry – Salem

Intrusion date: Sep 26 - 27, 2006	Intrusion time: 26/2100 to present (27/1100)	Intrusion number: NEO 06-01
Initial info source: Region 6 USFS, DEQ, NE Oregon District		
Area being affected: La Grande		
District of Forest burning that may be causing the intrusion: Wallowa-Whitman NF		
Location of unit(s) that may be causing the intrusion: 2S 36E s29 3S 35E s2		
Land owner: USFS	Unit number(s): 064061018108 064061018109	Unit size (tons): 13,200 12,000
Airport affected: _____		
Nephelometer affected: <u>La Grande</u> 2.3 at 26/2100 to 19.06 at 27/0300		
Estimated level of impact: <input type="checkbox"/> light <input type="checkbox"/> moderate <input checked="" type="checkbox"/> heavy		
Comments: Burning was not in compliance with the written instruction for NE Oregon burning.		
Additional distribution (Area, District/Forest): EOA – Cliff Diedtke, NEO District – John Buckman, W-WNF – Ken Rockwell, USFS R-6 – Jim Russell		

A follow-up report will be distributed as significant additional information becomes available.

A final report will be routed once the District/Forest intrusion is received.

Prepared by: Nick Yanke

FSM1 OREGON SMOKE MANAGEMENT SYSTEM - REGISTRATION INFORMATION

MODE: I (INQUIRE ADD UPDATE)	TIN OR SSN:	
	GOVT. UNIT:	BURNFEE EXEMP: Y
FACTS NBR : 06 406 10181 08	DISTRICT : 166	COUNTY : 31
OWNER : LA GRANDE RANGER DIS	OWNER TYPE:	FPF NBR : 000
SALE NAME : SPRINKLE (BLK. C)	SALE UNIT : 603	DIST FROM DA : 60
LEGAL LOC : 020S 360E 29	ELEVATION : 4100	
SPECIAL PROT: L	SLOPE : 30	
BURN REASON : B	BURN TYPE : N	BURN FEE PAID: N
FUEL METHOD : L	SPECIES : P	DIAMETER CODE: 1
CUTTING DATE: 9999 (MMYY)	DUFF DEPTH: 0	NBR ACRES : 2000

- - - - - TOTAL WOODY LOADING - - - - -

LANDING/RIGHT OF WAY TONS :	0 (TOTAL TONS)
OTHER PILED TONS :	0 (TOTAL TONS)
0 - 0.25" FUEL LOADING:	0 (TONS/ACRE)
0.26 - 1.00" FUEL LOADING:	2 (TONS/ACRE)
1.10 - 3.00" FUEL LOADING:	1 (TONS/ACRE)
3.10 - 9.00" FUEL LOADING:	1 (TONS/ACRE)
9.10 - 20.00" FUEL LOADING:	1 (TONS/ACRE)
OVER 20.00" FUEL LOADING:	0 (TONS/ACRE)

RECORD FOUND

FSM1 OREGON SMOKE MANAGEMENT SYSTEM - REGISTRATION INFORMATION

MODE: I (INQUIRE ADD UPDATE)

FACTS NBR : 06 406 10181 09	TIN OR SSN:	
OWNER : LA GRANDE RANGER DIS	GOVT. UNIT:	BURNFEE EXEMP: Y
SALE NAME : DARK MEADOW	DISTRICT : 166	COUNTY : 31
LEGAL LOC : 030S 350E 02	OWNER TYPE:	FPF NBR : 000
SPECIAL PROT: L	SALE UNIT : 601	DIST FROM DA : 60
BURN REASON : B	ELEVATION : 4000	
FUEL METHOD : L	SLOPE : 20	
CUTTING DATE: 9999 (MMYY)	BURN TYPE : N	BURN FEE PAID: N
	SPECIES : P	DIAMETER CODE: 2
	DUFF DEPTH: 7	NBR ACRES : 1500

- - - - - TOTAL WOODY LOADING - - - - -

LANDING/RIGHT OF WAY TONS :	0 (TOTAL TONS)
OTHER PILED TONS :	0 (TOTAL TONS)
0 - 0.25" FUEL LOADING:	0 (TONS/ACRE)
0.26 - 1.00" FUEL LOADING:	2 (TONS/ACRE)
1.10 - 3.00" FUEL LOADING:	4 (TONS/ACRE)
3.10 - 9.00" FUEL LOADING:	2 (TONS/ACRE)
9.10 - 20.00" FUEL LOADING:	2 (TONS/ACRE)
OVER 20.00" FUEL LOADING:	4 (TONS/ACRE)

RECORD FOUND

8:59:10

CURRENT BURNING PLANS

FACTS NUMBER	DISTRICT	LEGAL		TOTAL TONS	- IGNITION -	
		LOCATION	ACRES		DATE	TIME
01-406-10170-56	Prairie City	120S-350E-16	40	1200	10/02/06	14:00
02-406-10176-23	Wallowa Valley	020N-450E-28	250	3750	10/02/06	12:30
02-406-10176-24	Wallowa Valley	020N-450E-34	180	2700	10/02/06	13:00
05-771-55614-04	Middle Fork	190S-050E-09	8	304	10/02/06	13:00
06-406-10144-50	John Day	210S-310E-21	300	2700	10/03/06	10:00
06-406-10161-47	Wallowa Valley	030N-470E-16	300	900	10/02/06	13:00
*06-406-10181-08	La Grande	020S-360E-29	2000	6000	<u>9/15/06</u>	11:00
*06-406-10181-09	La Grande	030S-350E-02	1500	13500	<u>9/30/06</u>	10:00
06-406-10218-05	North Fork RD	030S-320E-28	76	2280	<u>9/28/06</u>	10:00
	9		4654	33334		

END OF REPORT

8:01:17

BURNING RESULTS FOR:09/25/06

FACTS NUMBER	DISTRICT	LEGAL LOCATION	ACRES	TOTAL TONS	IGNITION TIME
06-406-10181-08	La Grande	020S-360E-29	1700	5100	11:30
06-406-10181-09	La Grande	030S-350E-02	1200	10800	11:30
	2		2900	15900	

END OF REPORT

FSM3 OREGON SMOKE MANAGEMENT SYSTEM - ACCOMPLISHMENT CORRECTIONS SCREEN
 FACTS NBR: 064061018108 DISTRICT: 166 - LA GRANDE

IGNITION	RTWY	BROAD	M R	DAY	T	H	S
DATE	TIME	ACRES	LAND PILE	UBRN	IGN	E A	WETH
			TONS	TONS	T/A	DUR	T P
092506	1130 1700		0	0	3	600	A N Unit
							STAT HR HR CD RN P M DR SP W
							10 17 W 7 67 41 13 3 4

MAKE CHANGES TO ACCOMPLISHMENTS DISPLAYED
 OR USE F3 TO SELECT ANOTHER FACTS NUMBER

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FSM3 OREGON SMOKE MANAGEMENT SYSTEM - ACCOMPLISHMENT CORRECTIONS SCREEN
 FACTS NBR: 064061018109 DISTRICT: 166 - LA GRANDE

IGNITION	DATE	TIME	ACRES	RTWY LAND	TONS	BROAD PILE	UBRN	M R IGN	E A T/A	WETH DUR	10 T	1000 P	S STAT	M HR	U HR	WIND CD	N RN	S P	H M	DR	SP	W W
092506	1130	1200	0	0	9	540	H	N	UNIT	10	17	W	7	65	40	13	3	4				

MAKE CHANGES TO ACCOMPLISHMENTS DISPLAYED
 OR USE F3 TO SELECT ANOTHER FACTS NUMBER

EASTERN OREGON
Automatic Calculation of Slash Tonnage

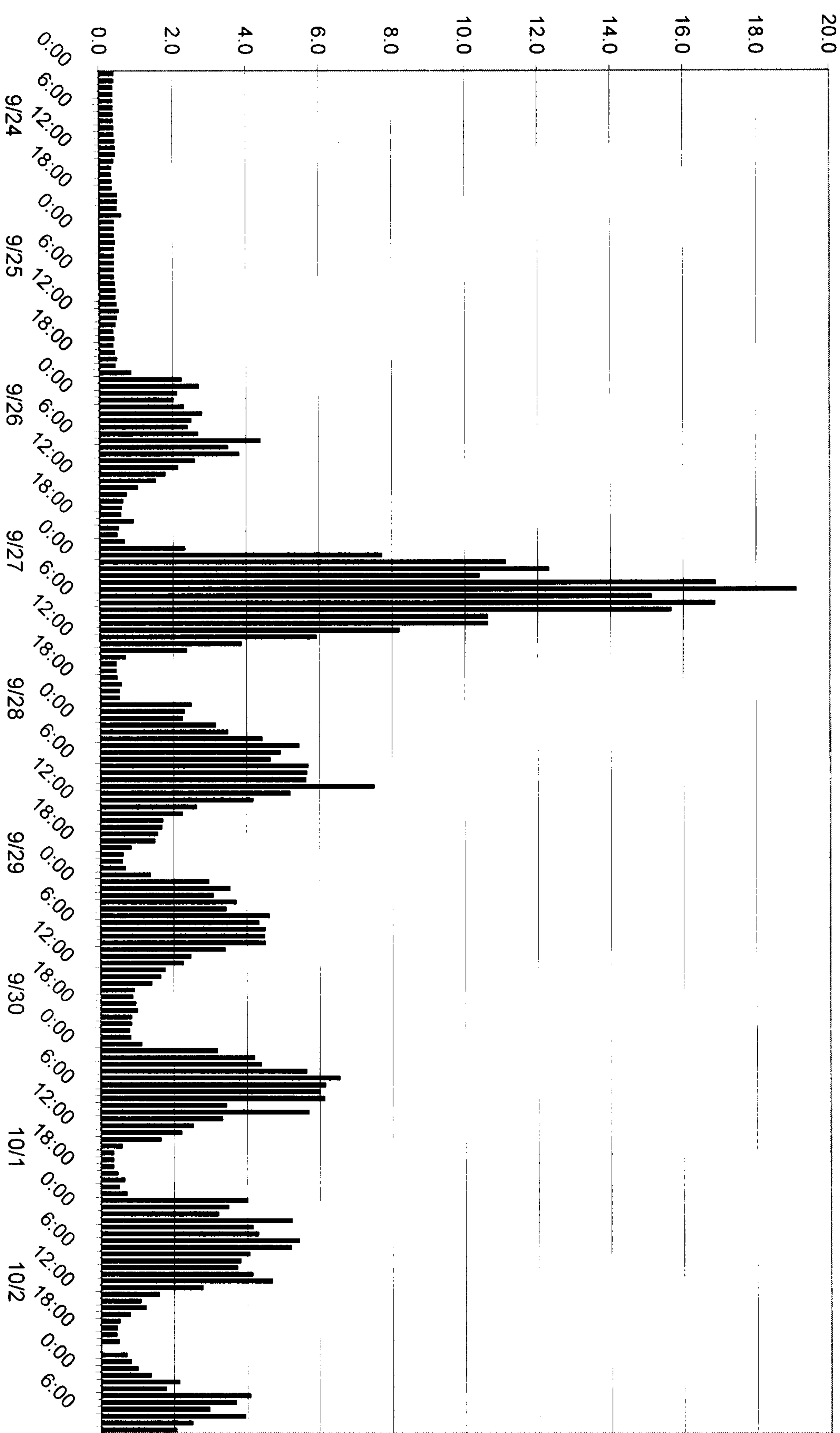
Ver 3.0 4/93

Questions call 945-7448

Harvest Date -- Date 70% cutting was complete, month/year 10hr -- Measured fuel moisture of .25" to 1" fuels
 Snow Off Date -- Month unit last had snow 1000hr -- Fuel moisture of 3" plus fuels
 Ignition Duration -- Total ignition time Wind Speed -- Midflame wind speed
 Percent Slope -- Average slope of unit Method -- N for NFDR, A for ADJ-th, W for Oven Dried
 DSR -- WO Days since .5" rain in a 48 hour period EO Days since .25" rain in a 48 hour period.

REGIONAL AREA		EO WO for Western Oregon, EO for Eastern Oregon																	
Unit Information						Weather Information					Fuel Loading					Consumption			
Unit #	AC	Harvest Date	Snow Off	Ign Dur	% Slp	DSR	Wind Sp.	10 HR	1000 HR	Meth	0 to 1/4"	1/4" to 1"	1" to 3"	3" to 9"	9" to 20"	20" +	Duff Dep	Tons AC	Total Tons
																		####	#DIV/0!
64061018108	1700	Apr-92	4	600	30	7	3	10	17	W	0	2	1	1	1	0	0	4	6913
64061018109	1200	May-92	4	540	20	7	3	10	17	W	0	2	4	2	2	4	0.7	13	16156
																		####	#DIV/0!

La Grande Nephelometry (Bscat)



Oregon air quality index - 30 Day History

Monitoring Area	Date	Daily AQI	Category	Pollutant
La Grande	10/10/2006	24	Good	PM2.5
La Grande	10/09/2006	23	Good	PM2.5
La Grande	10/08/2006	25	Good	PM2.5
La Grande	10/07/2006	30	Good	PM2.5
La Grande	10/06/2006	31	Good	PM2.5
La Grande	10/05/2006	38	Good	PM2.5
La Grande	10/04/2006	48	Good	PM2.5
La Grande	10/03/2006	64	Moderate	PM2.5
La Grande	10/02/2006	93	Moderate	PM2.5
La Grande	10/01/2006	116	UFSG	PM2.5
La Grande	09/30/2006	114	UFSG	PM2.5
La Grande	09/29/2006	122	UFSG	PM2.5
La Grande	09/28/2006	172	Unhealthy	PM2.5
La Grande	09/27/2006	181	Unhealthy	PM2.5
La Grande	09/26/2006	97	Moderate	PM2.5
La Grande	09/25/2006	33	Good	PM2.5
La Grande	09/24/2006	16	Good	PM10

DEQ Monitoring Data

The U. S. Environmental Protection Agency's scale for rating air quality

Air Quality Rating	Air Quality Index (AQI)	PM2.5 24-hour Average (micrograms/m3)	8-hour Ozone Concentration (ppm)	Carbon Monoxide 8-hour average (ppm)
GOOD	0-50	0-15.4	0-0.064	0.0-4.4
MODERATE	51-100	15.5-40.4	0.065-0.084	4.5-9.4
UNHEALTHY for Sensitive Groups (UFSG)	101-150	40.5-65.4	0.085-0.104	9.5-12.4
UNHEALTHY	151-200	65.5-150.4	0.105-0.124	12.5-15.4
VERY UNHEALTHY	201-300	150.5-250.4	0.125-0.155	15.5-30.4
HAZARDOUS	>300	>250.4	>0.155	>30.4



10:13 AM • Thursday AM • September



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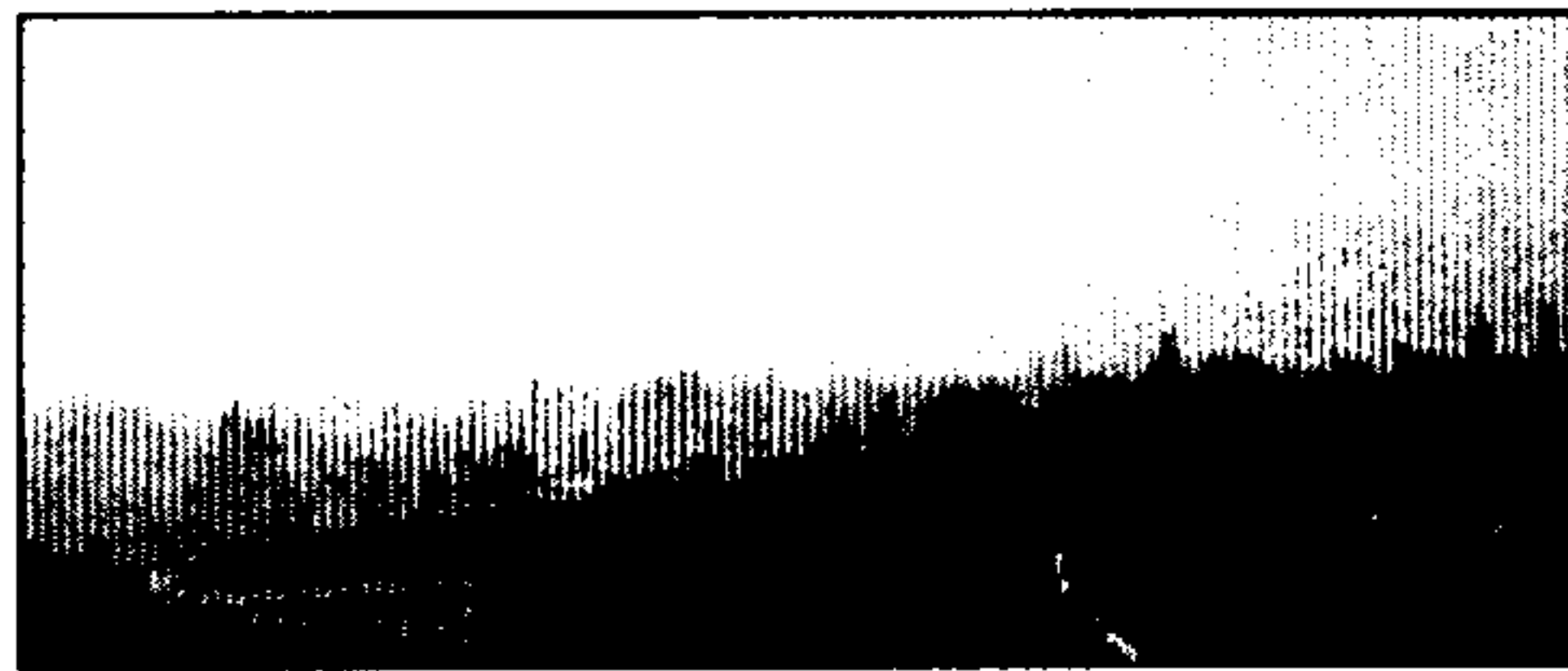
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Prescribed burn smoke thickens valley air

Published: September 27, 2006



SMOKED OUT: Smoke from prescribed burns settles in La Grande this morning, as viewed from near Gangloff Park.

The Observer/CHRIS BAXTER

Mardi Ford

The Observer

Union County residents awoke to lots of smoke this morning — enough to cause health concerns.

By 9 a.m. the air quality index at the Ash Street station in La Grande had reached the mid-range of the unhealthy category with a reading of 177.

Tuesday, the Forest Service began prescribed burning on a total of more than 3,000 acres of Wallowa-Whitman National Forest in two separate units 15 and 20 miles west of La Grande.

With its habitual infiltration of smoke, wildfire season had begun to wind down. Usher in the season for fall prescribed burning on its coattails. Over the weekend, skies across the Grande Ronde Valley turned blue again and everyone breathed a little easier. It didn't last long.

Dave Quinn of the Northeast Oregon Interagency Fire Center, the agency that issued the prescribed burn notification late Tuesday morning, confirmed the smoke affecting

La Grande was coming from the prescribed burns.

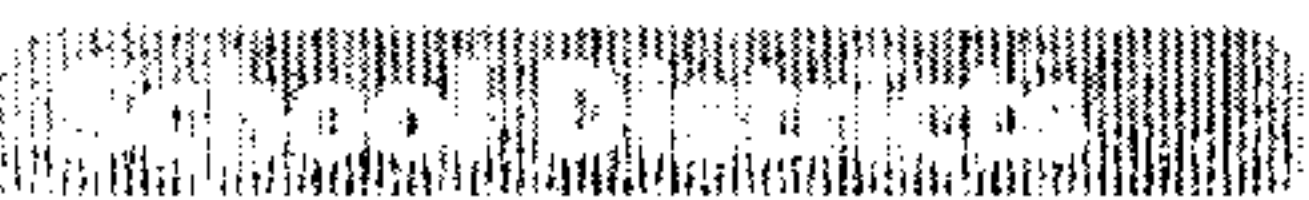
The Department of Environmental Quality's air quality index is a formulaic indication for the amounts of pollution and particulate in the air. Monitoring stations, like the one in La Grande, measure carbon monoxide, ozone, particulate in the PM 10 scale and the tiny PM 2.5 scale.

Smoke is comprised of the fine PM 2.5 particulate that worries health officials.

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GR Model Watershed

It is so fine it is easy to draw deep into the lungs and harder to expel, according to Richard Bly, Union County's environmental health specialist.



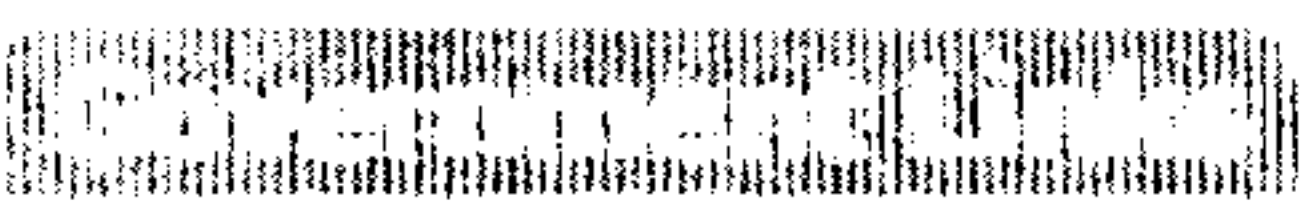
La Grande
Cove
Union
North Powder
Imbler
Elgin
Enterprise
Wallowa
Joseph

A reading of 177 is in the red zone and approaching very unhealthy.

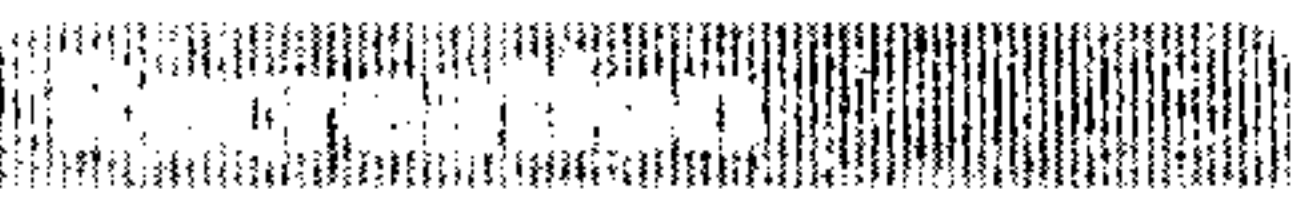
The local office of the Wallowa-Whitman National Forest indicated this morning it had received numerous phone calls from concerned citizens. No one at the local office was available by press time to comment on the burns.

La Grande Air Quality Superintendent Liz Hill was also unavailable for comment Wednesday morning.

The Air Quality Index for La Grande and its surrounding areas can be viewed online at www.deq.state.or.us/aq/api/Index.asp



Gov. Kulongoski
Senator Wyden
Senator Smith
Rep. Walden
Union County
City of La Grande
City of Union
City of Enterprise
OR Legislature



Visit La Grande
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Wallowa/Whitman
Forest Info
Rocky Mtn. Elk
Foundation



ODOT TripCheck
ODOT Road Cams
ODOT/OSP Report
Weather Stations



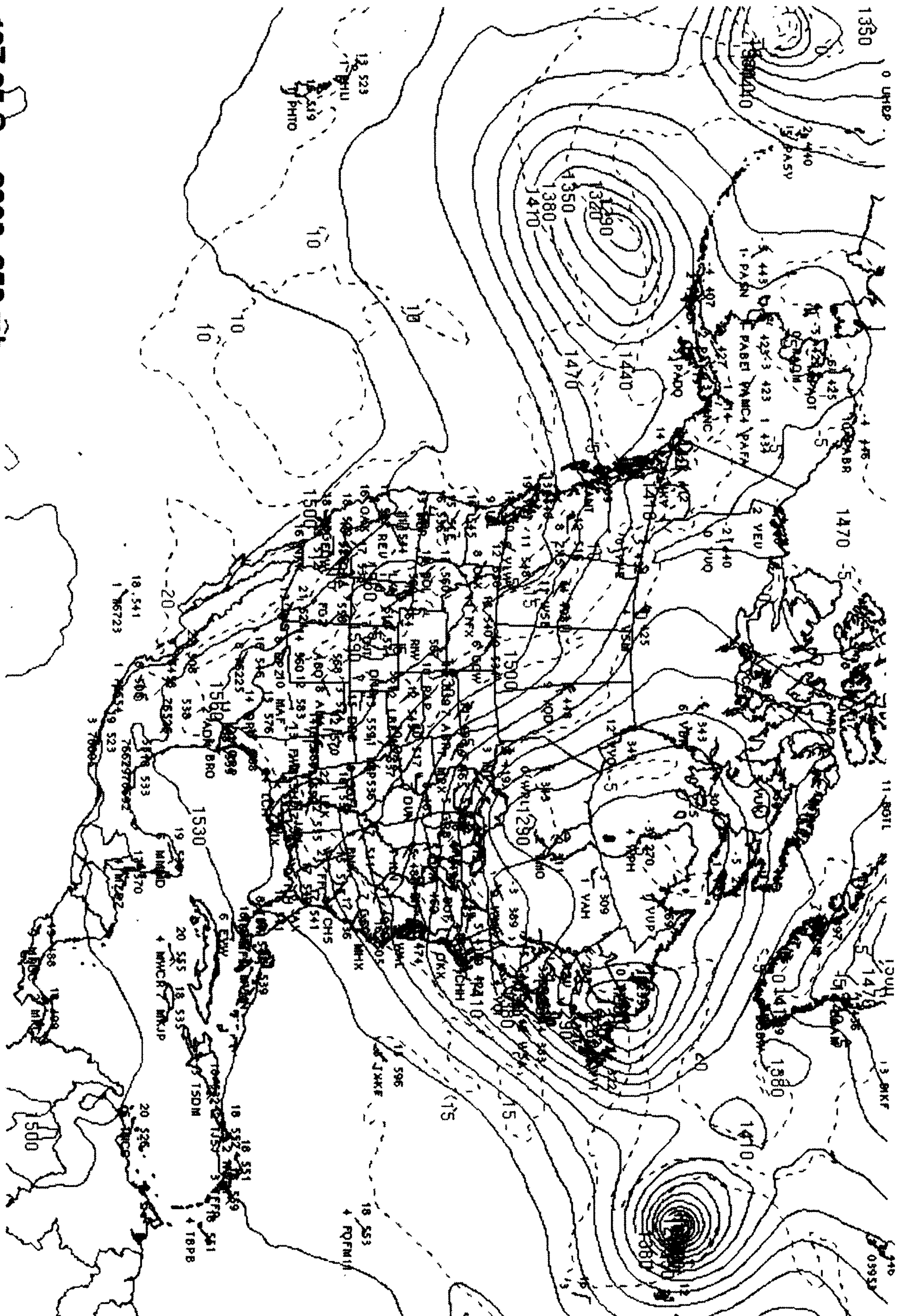
NOAA Weather



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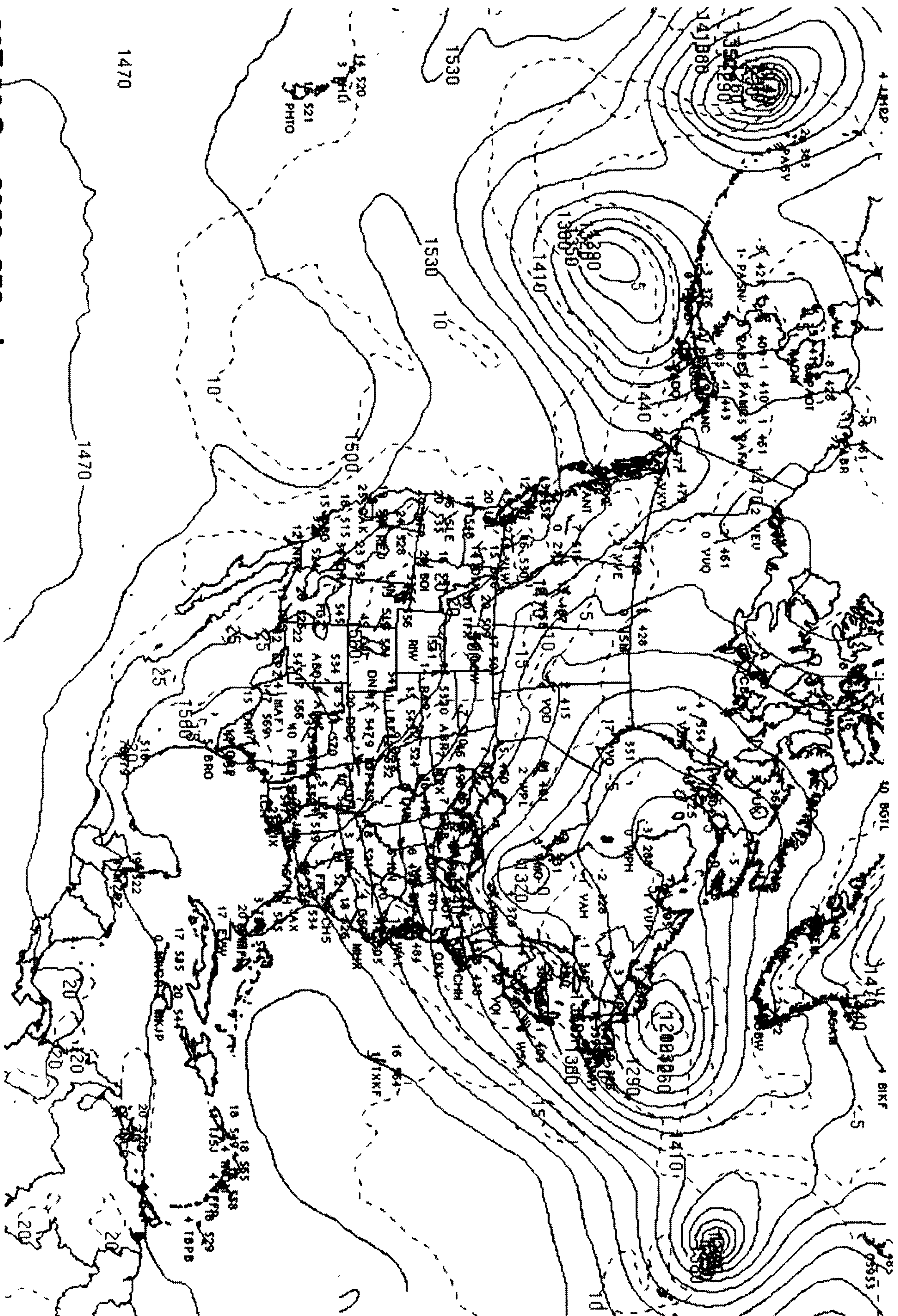
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12Z 25 Sep 2006 850 mb

University of Wyoming

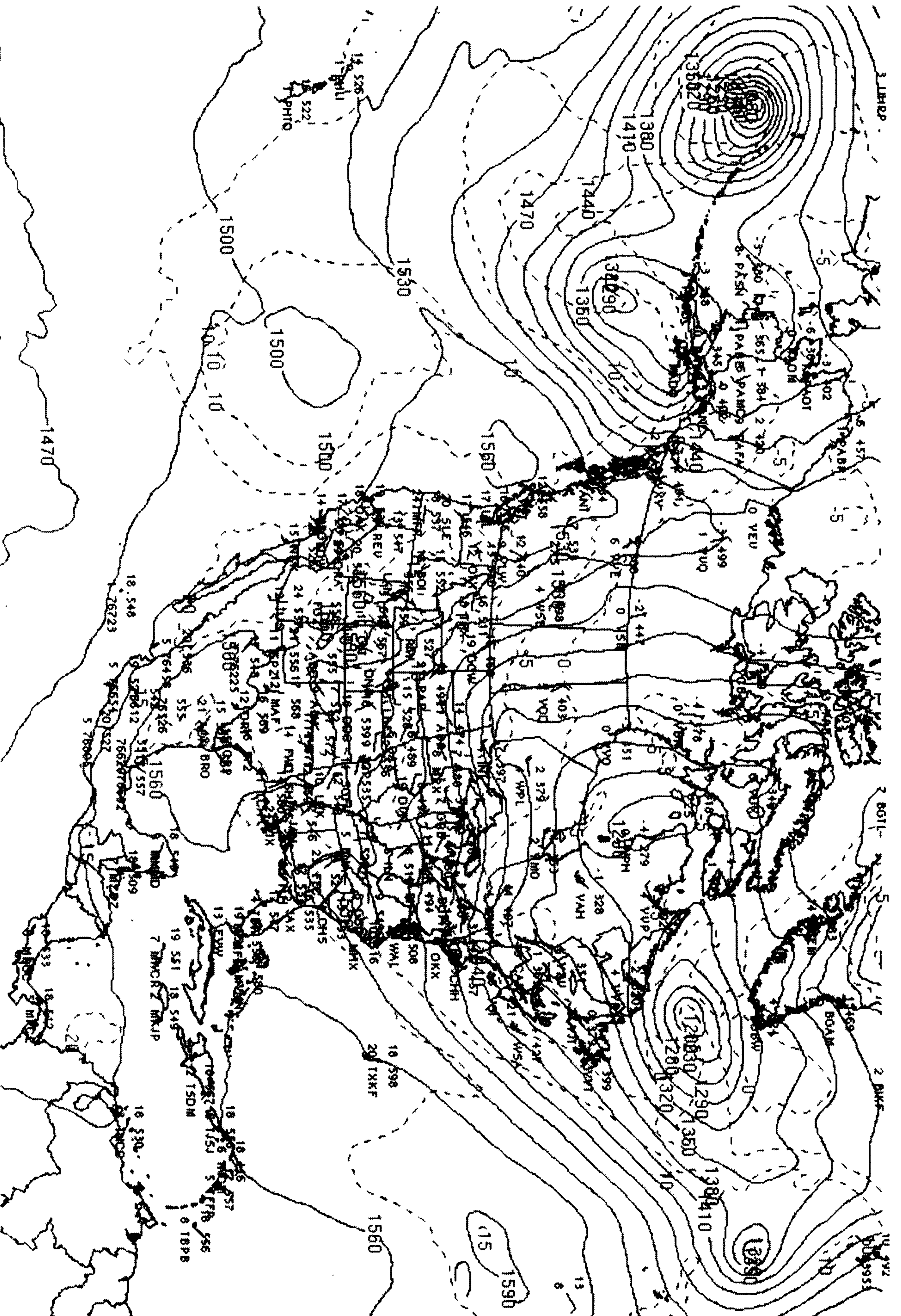
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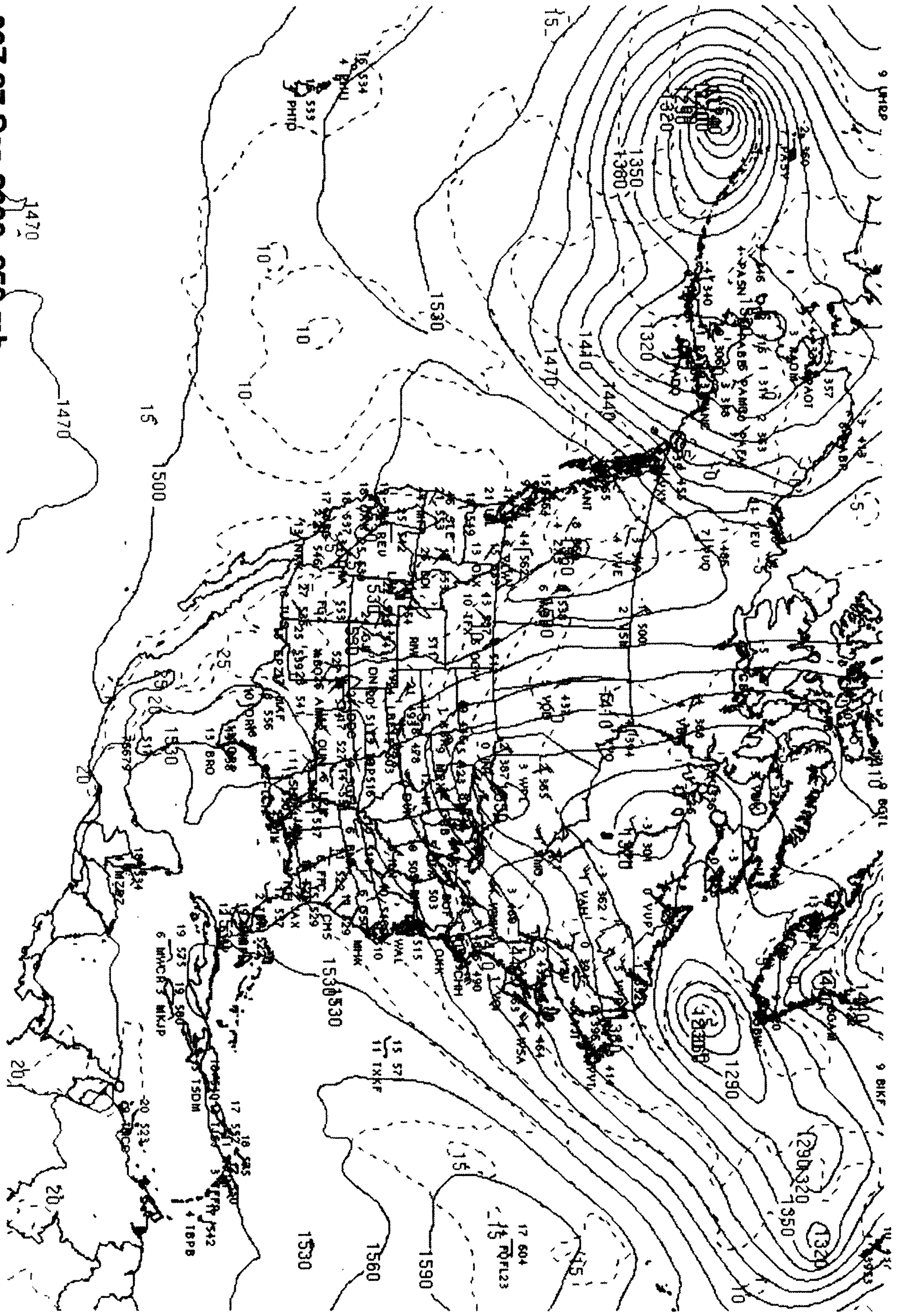


122 26 Sep 2006 850 mb

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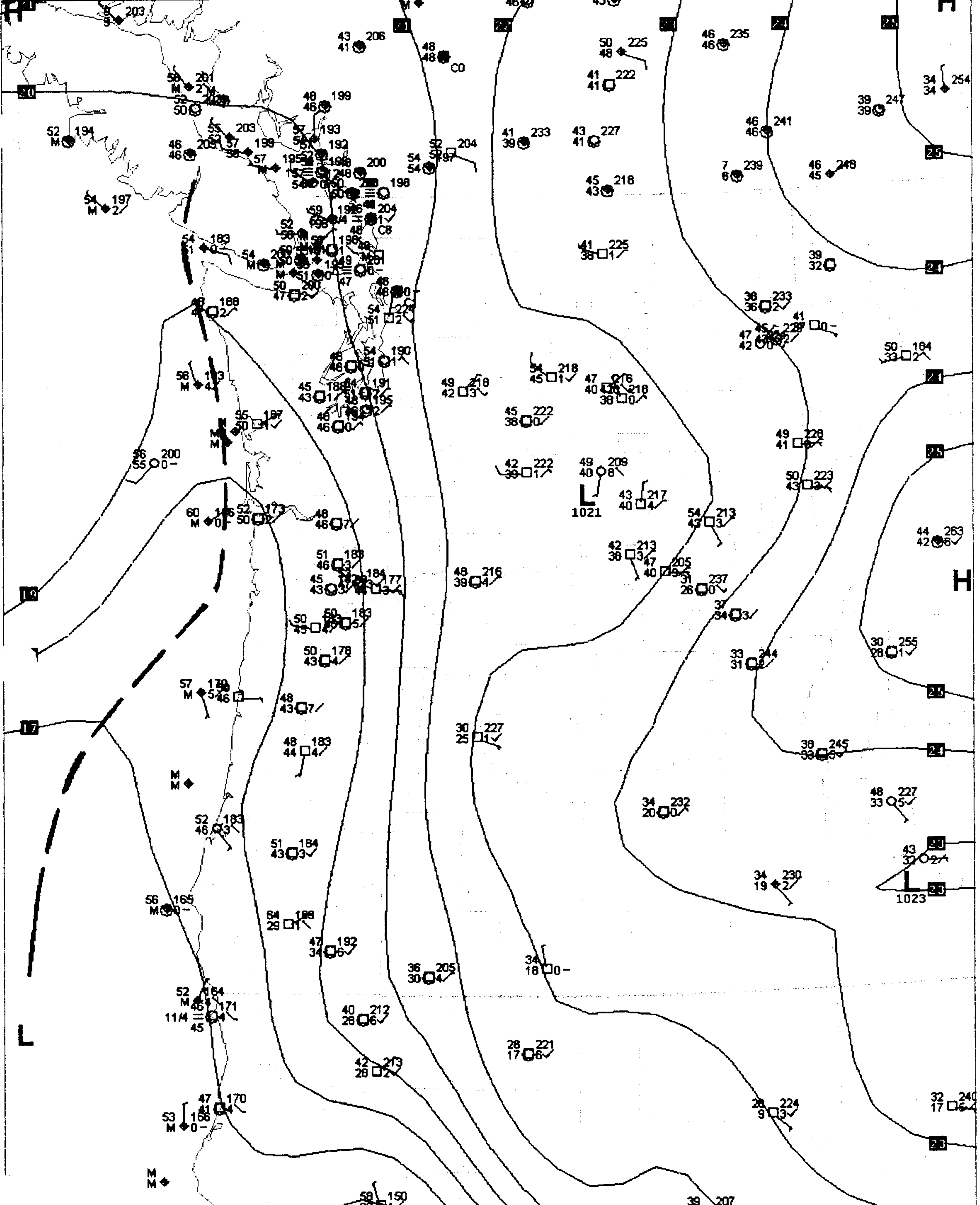
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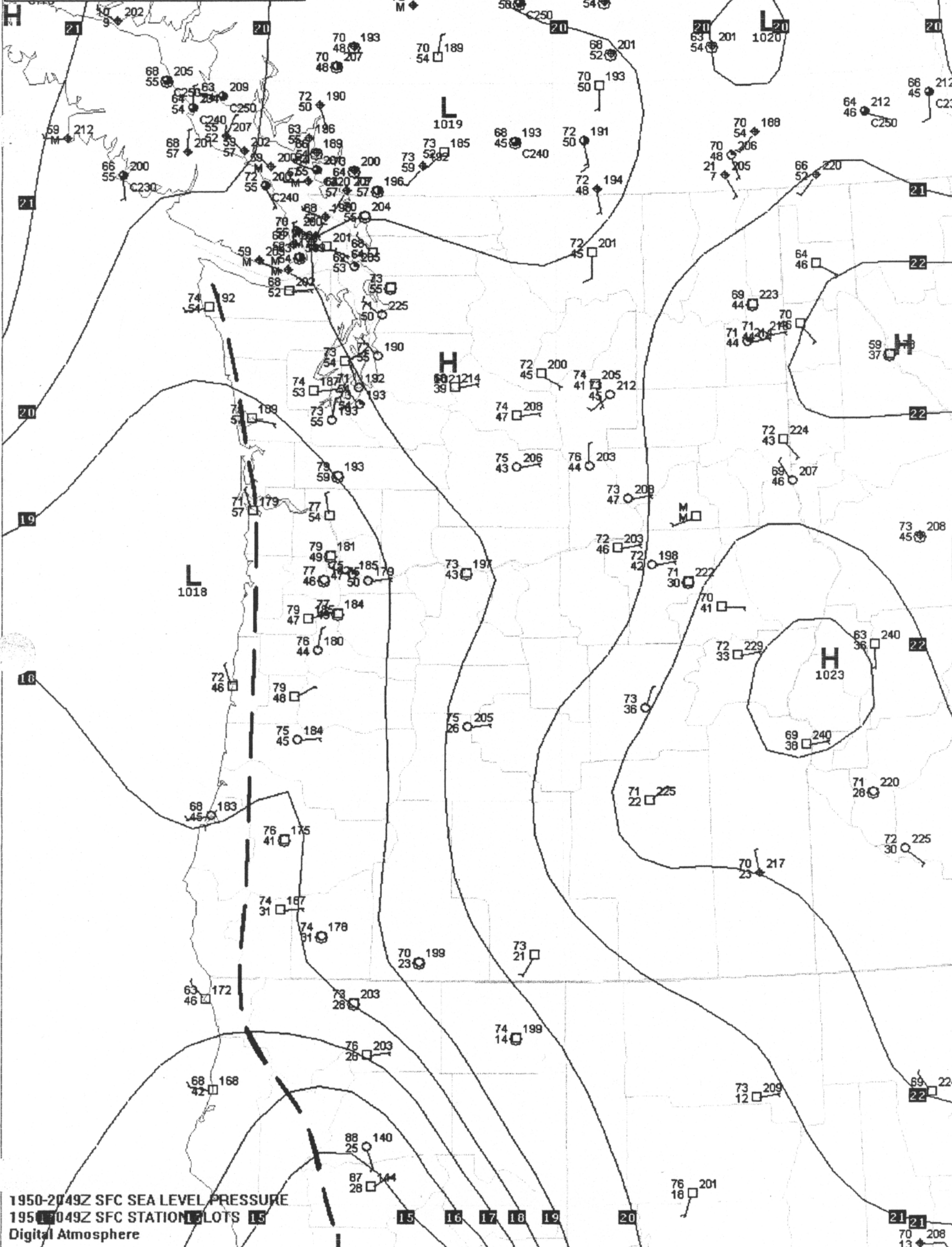
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1150-1249Z SFC SEA LEVEL PRESSURE
 1150-1249Z SFC STATION PLOTS
 Digital Atmosphere

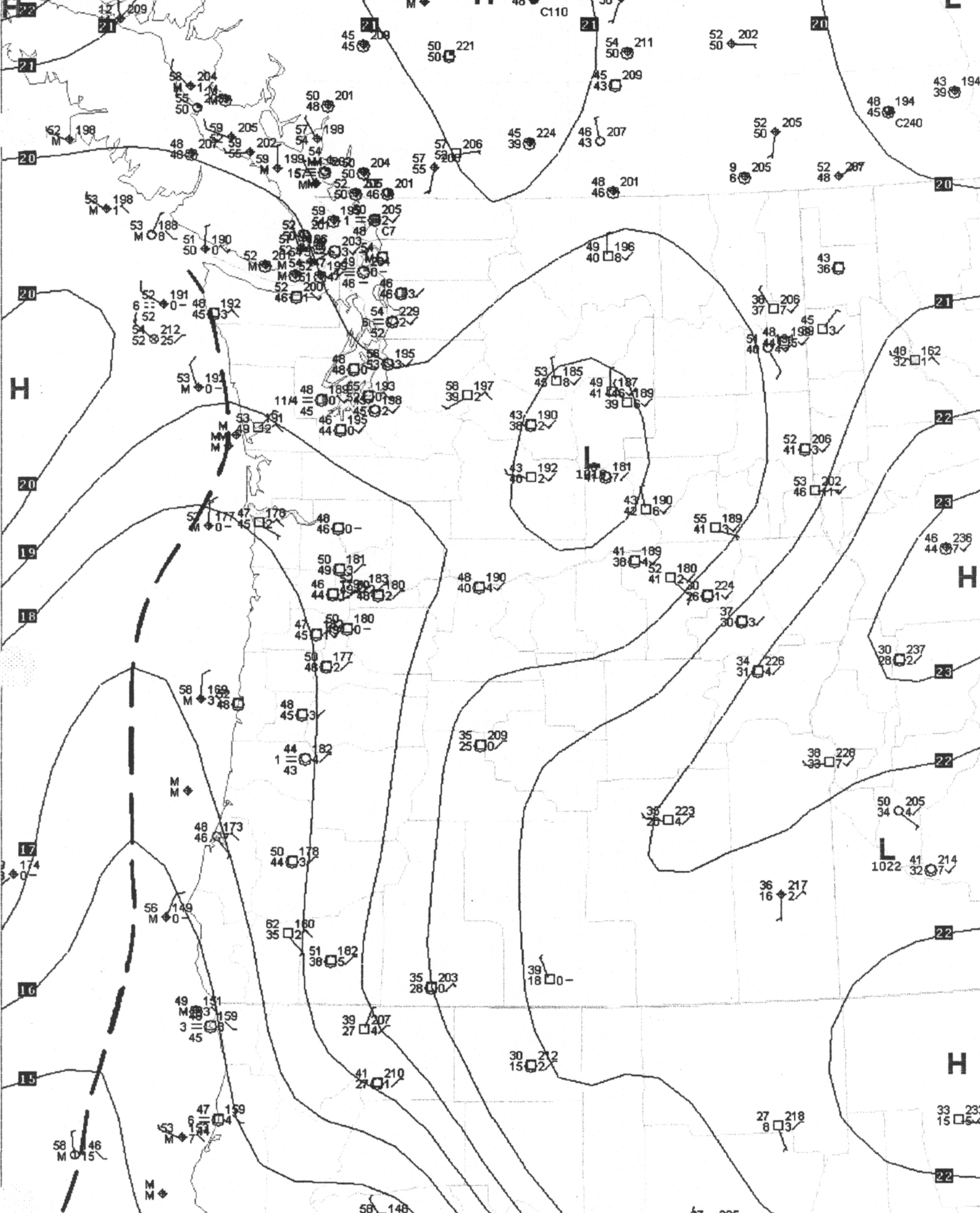
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1950-2049Z SFC SEA LEVEL PRESSURE
1950-2049Z SFC STATION PLOTS
Digital Atmosphere

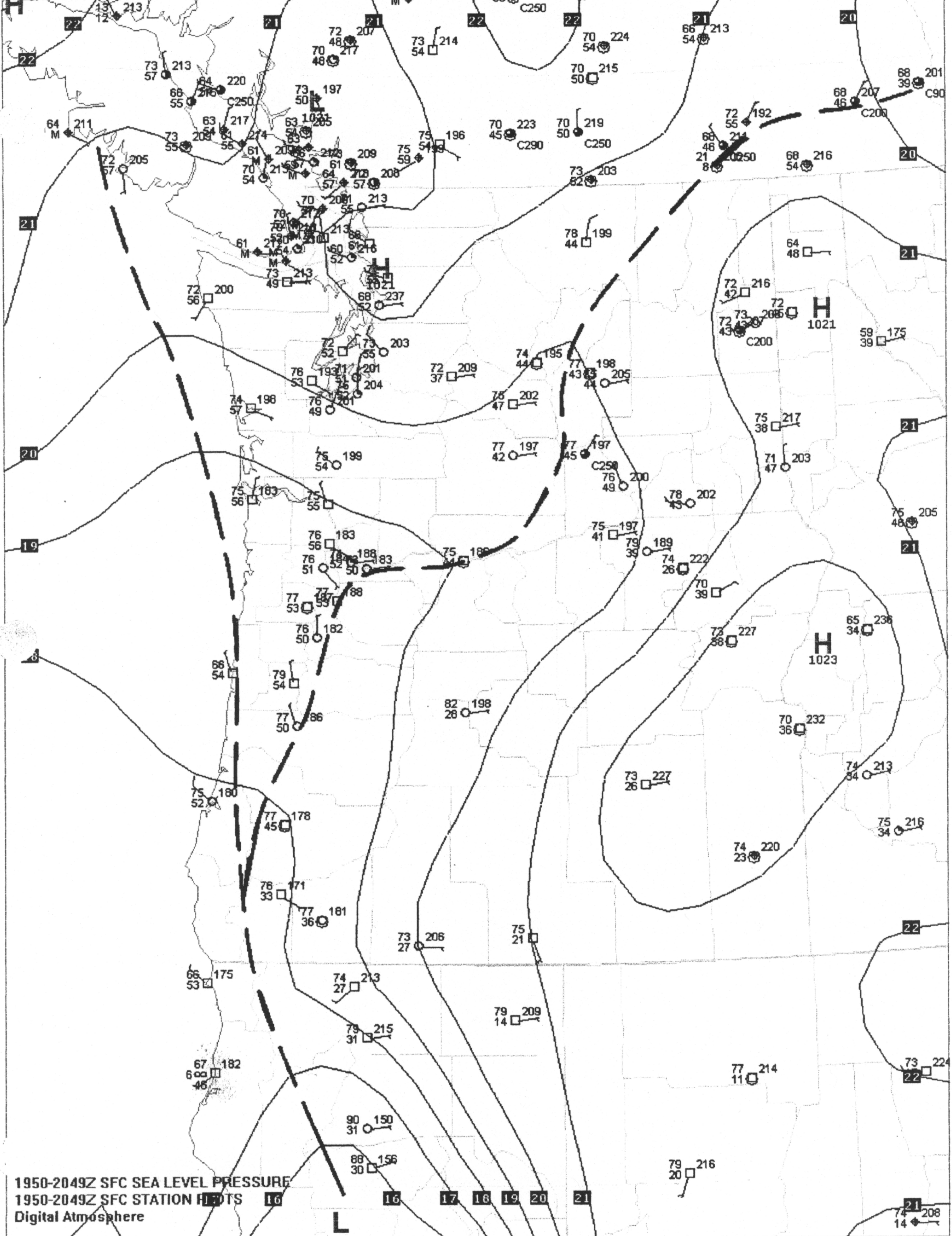
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1150-249Z SFC SEA LEVEL PRESSURE
1150-1249Z SFC STATION PLOTS
Digital Atmosphere

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1950-2049Z SFC SEA LEVEL PRESSURE
1950-2049Z SFC STATION PLOTS
Digital Atmosphere

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