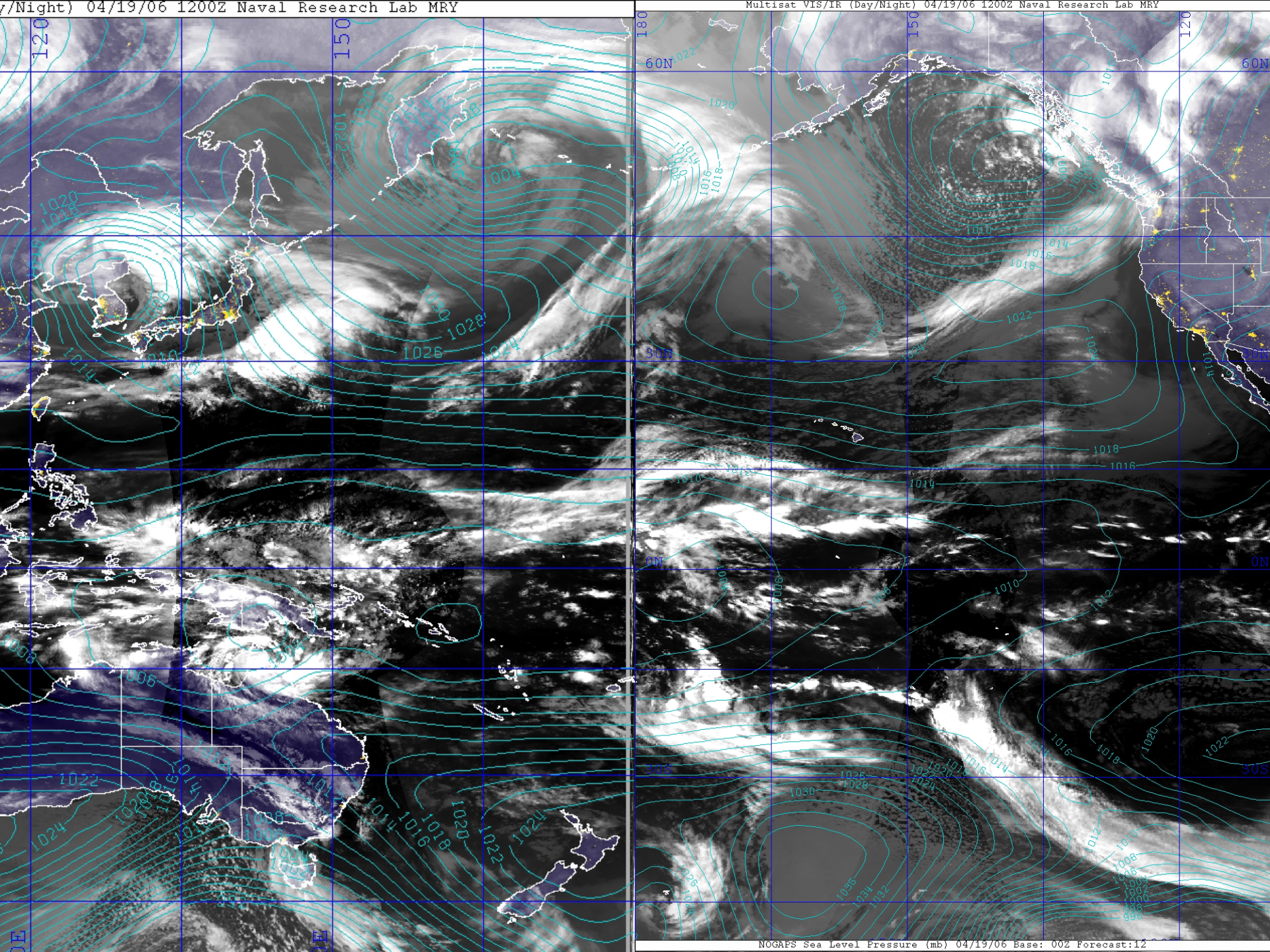
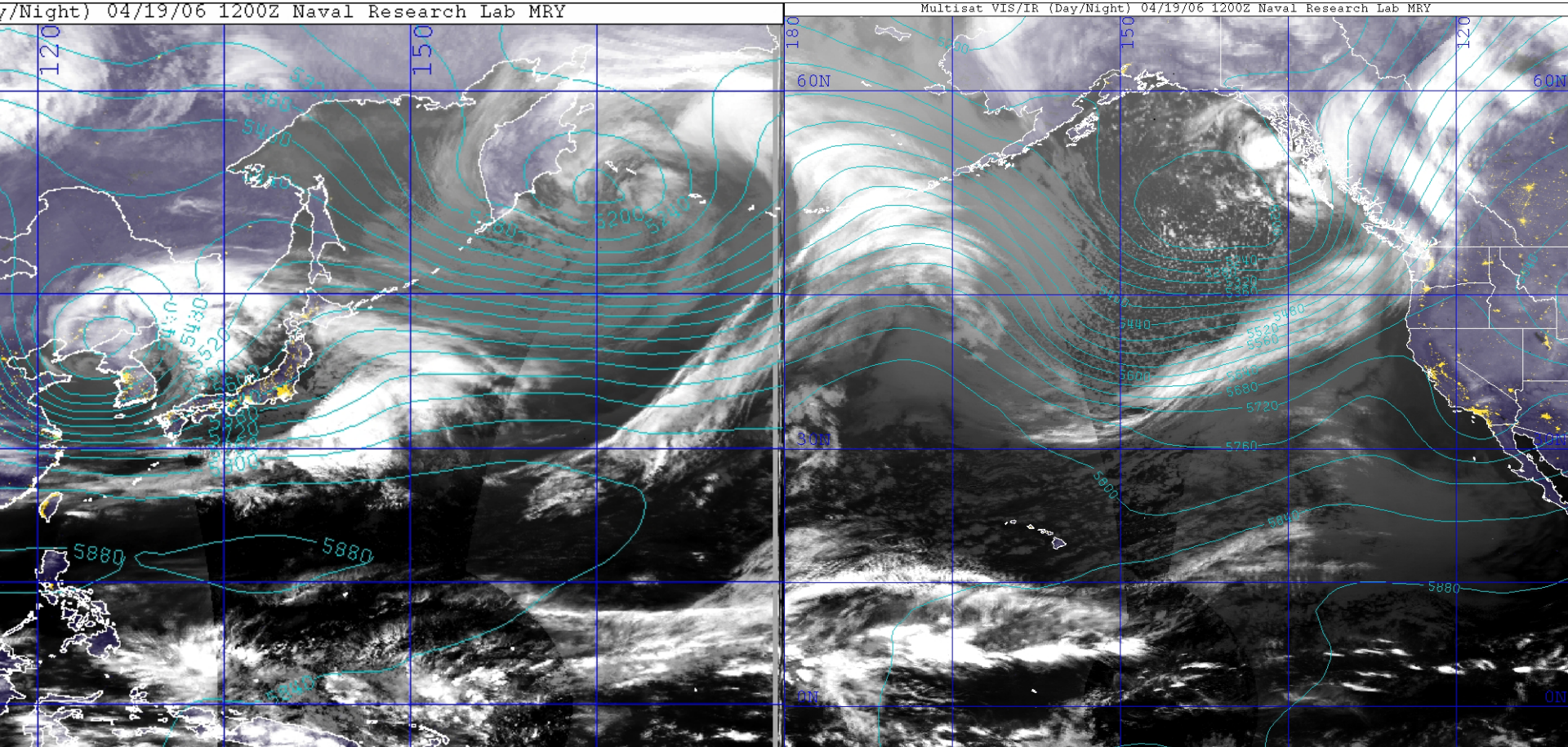
MET Brief 0419


y/Night) 04/19/06 1200Z Naval Research Lab MRY
Multisat VIS/IR (Day/Night) 04/19/06 1200Z Naval Research Lab MRY
NOGAPS Sea Level Pressure (mb) 04/19/06 Base: 00Z Forecast:12


y/Night) 04/19/06 1200Z Naval Research Lab MRY
Multisat VIS/IR (Day/Night) 04/19/06 1200Z Naval Research Lab MRY
120
150
180
60N
30N
0N
5880
5760
5720
5680
5640
5600
5560
5520
5480
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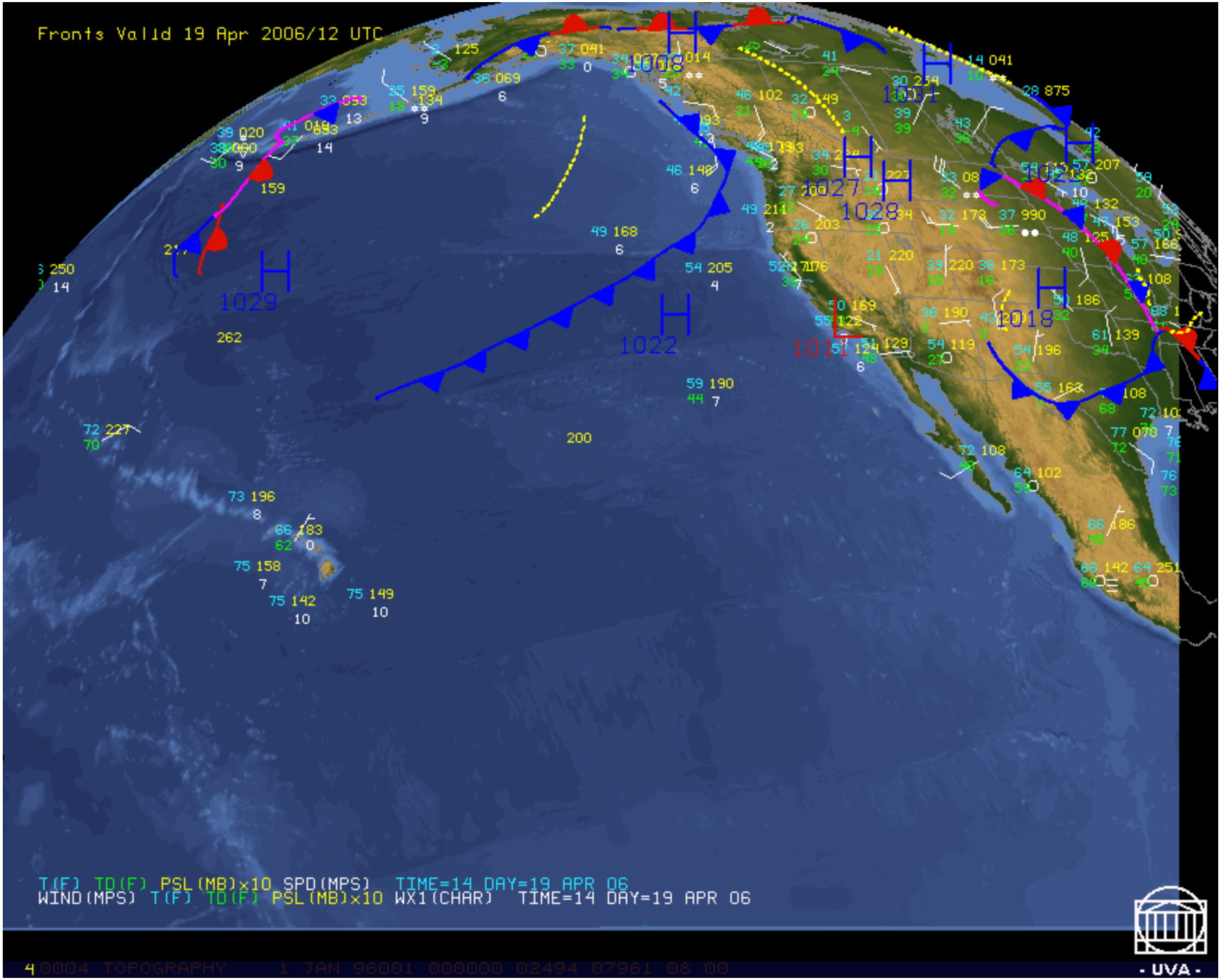
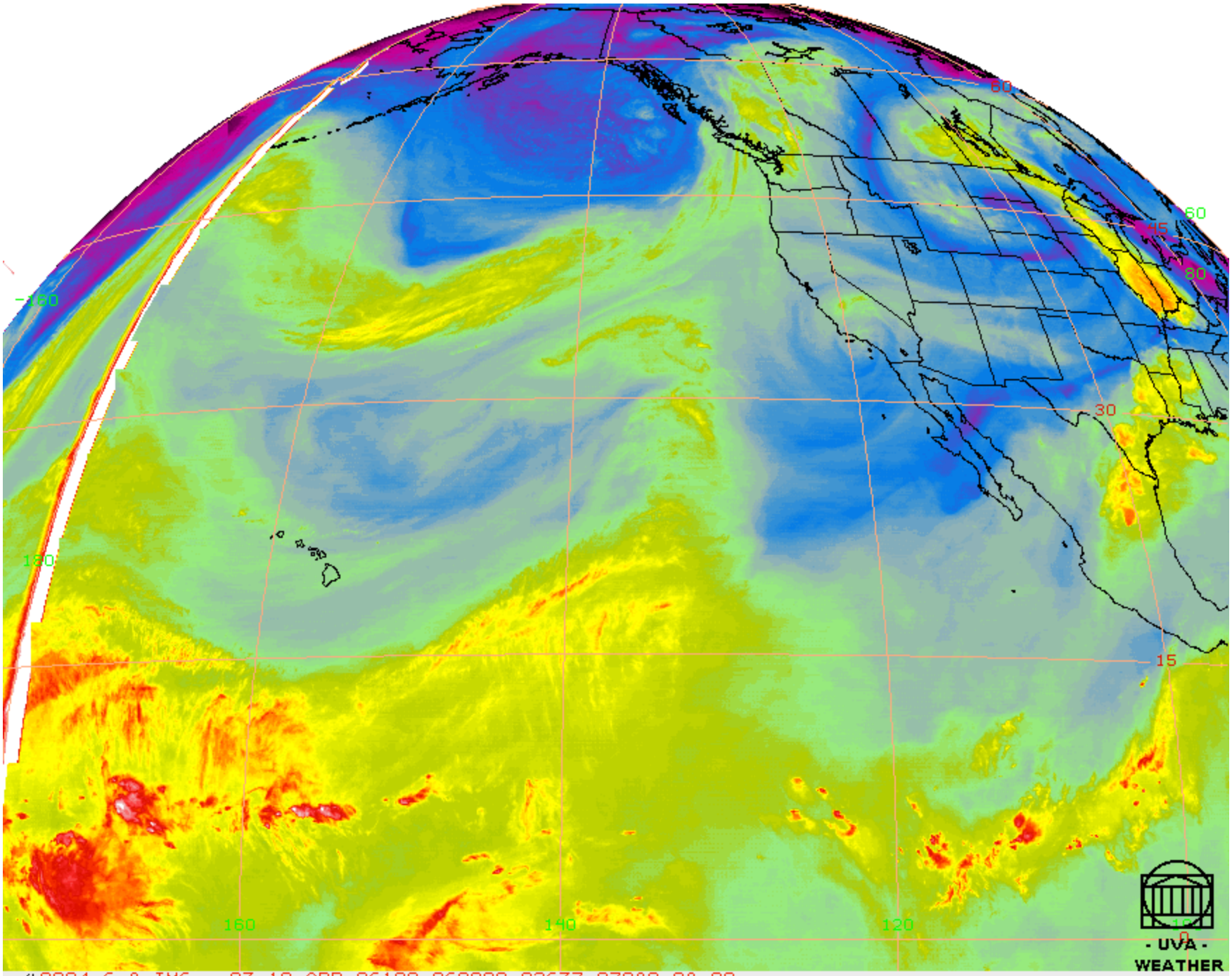
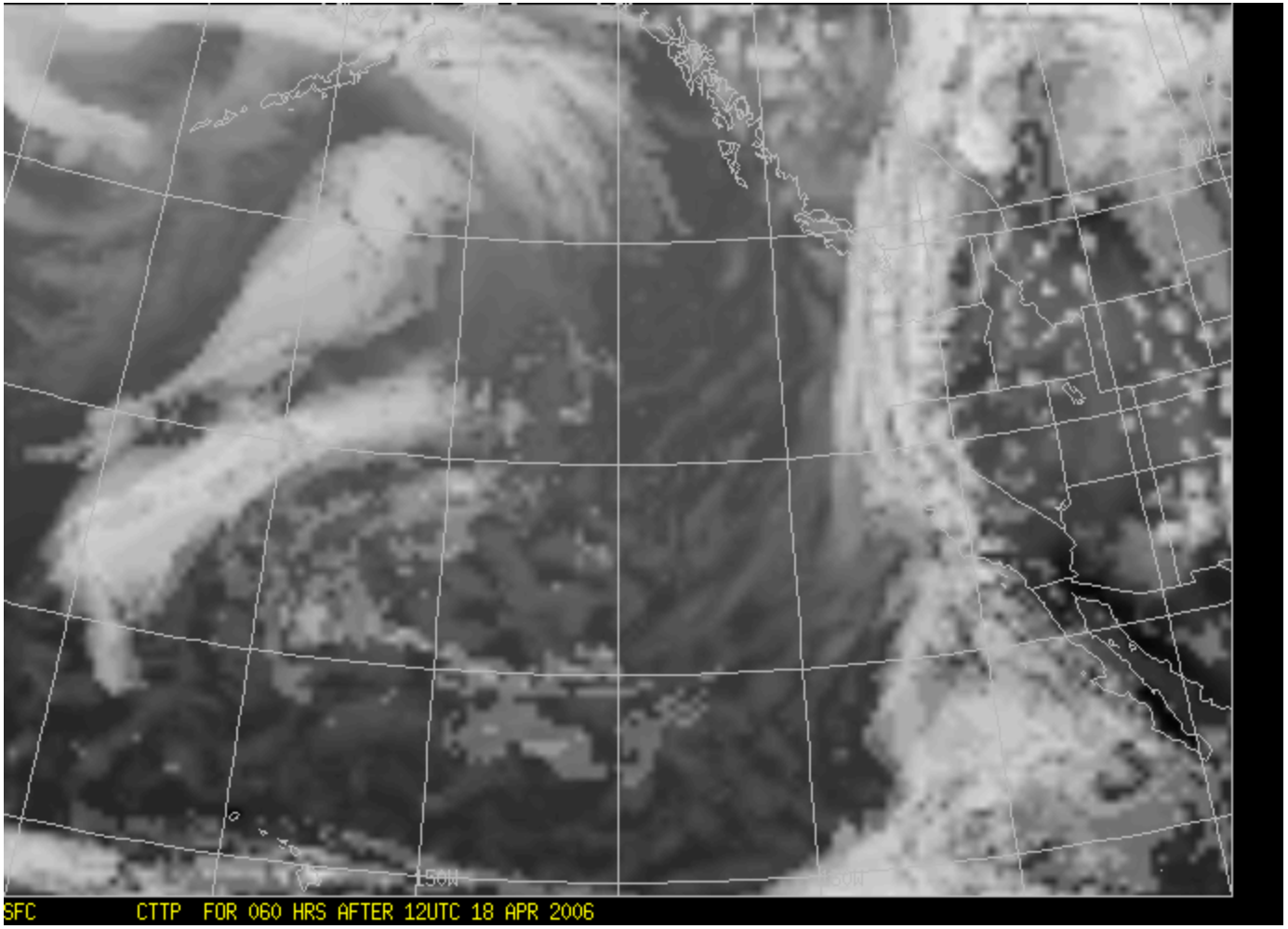
5400
5360
5320
5280
5240
5200

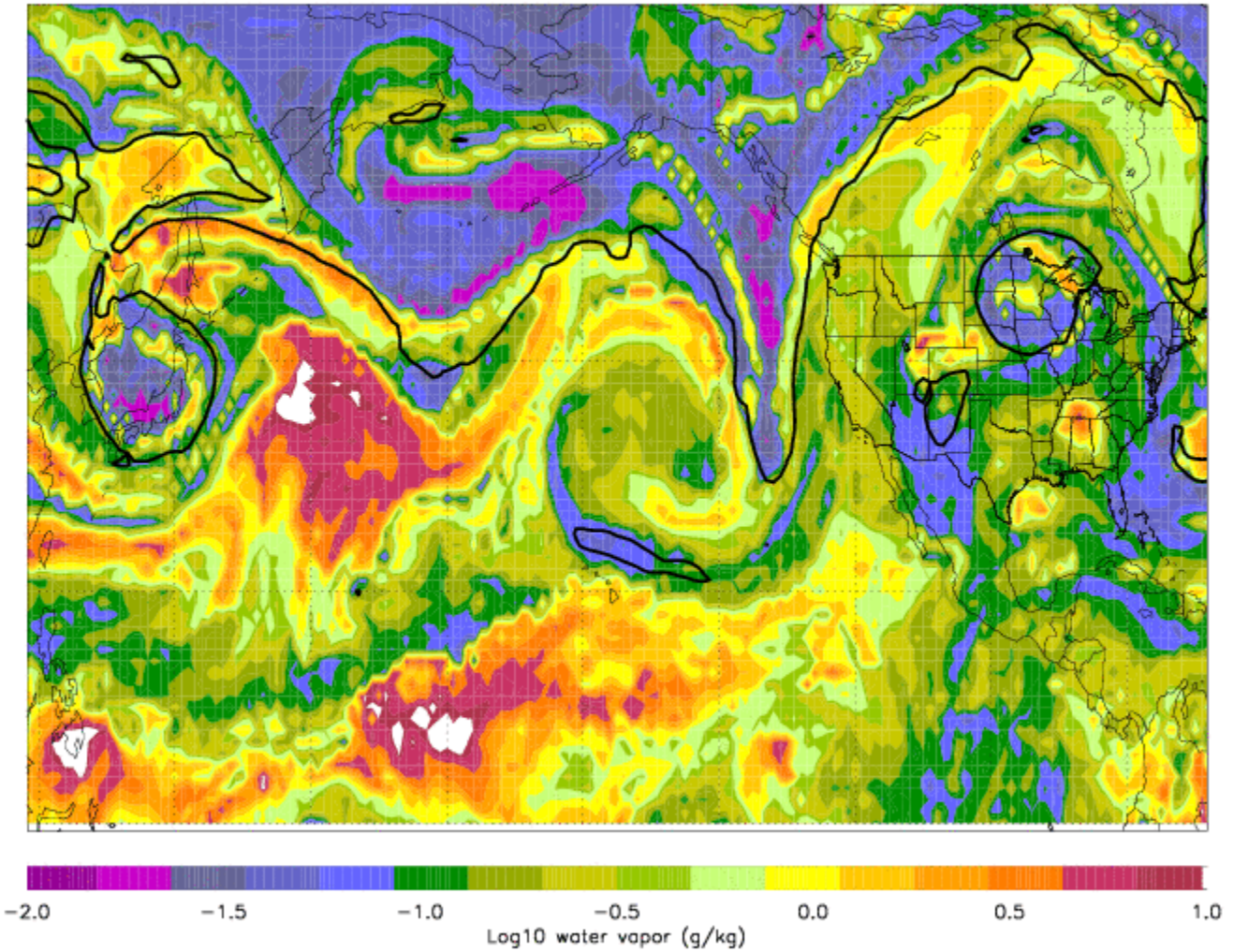

Fronts Valid 19 Apr 2006/12 UTC
T(F) TD(F) PSL(MB)x10 SPD(MPS) TIME=14 DAY=19 APR 06
WIND(MPS) T(F) TD(F) PSL(MB)x10 WX1(CHAR) TIME=14 DAY=19 APR 06
4 0004 TOPOGRAPHY 1 JAN 96001 000000 02494 07961 08.00
UVA


60
60
45
90
-160
30
180
15
160
140
120
- UVA -
WEATHER
4 0004 G-8 IMG 03 19 APR 06109 060000 02637 07989 08.00

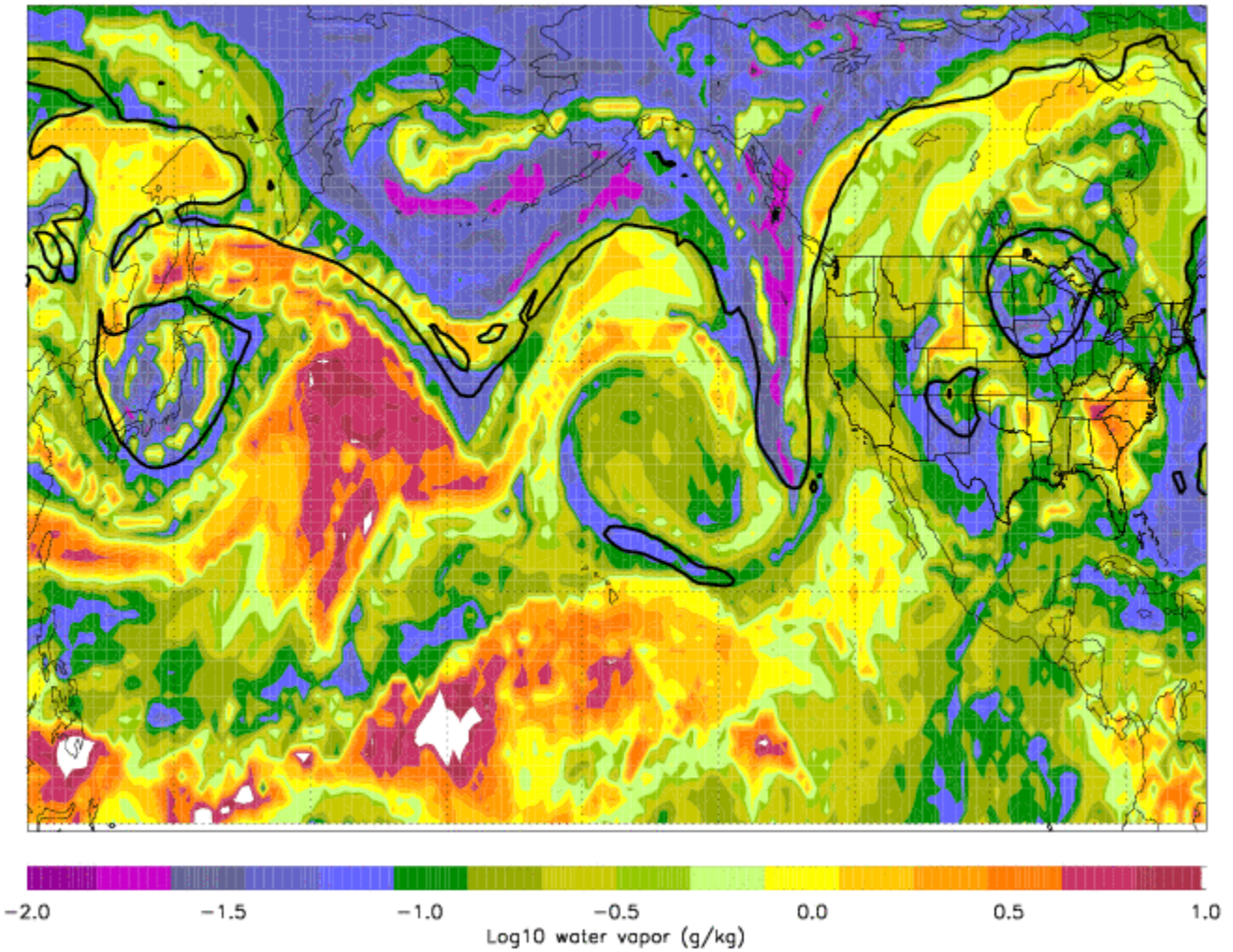
60 Hr Cloud Forecast from the CIMMS CRAS model, simulated 11um (Long-wave IR) GOES image valid for 00UTC 4/21 (Thursday afternoon)- relevant for the DC-8 Plans



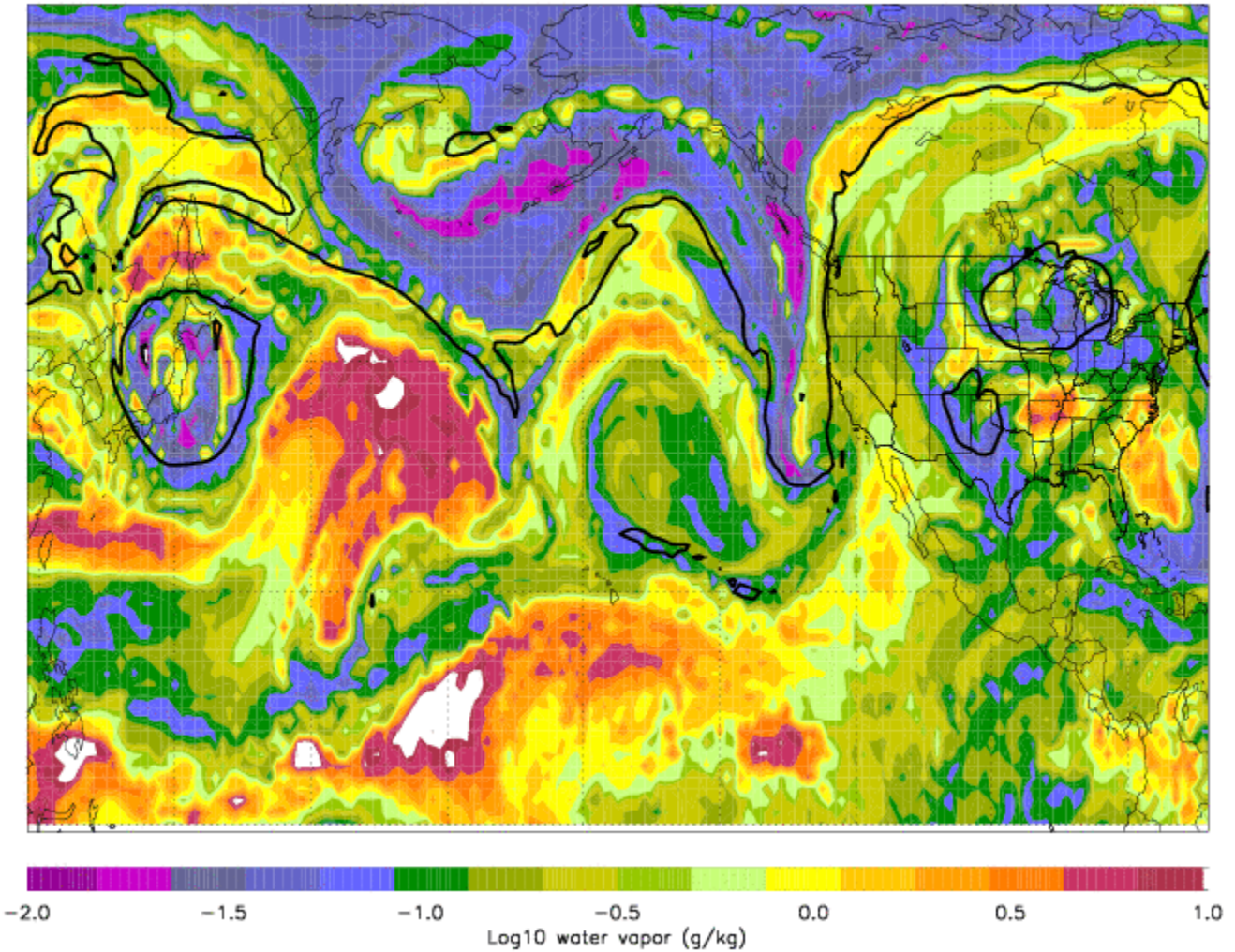
200–400mb Layer averaged –48hr RDF water vapor valid 2006042018
(Layer averaged 2.5 PVU isopleth in Black)



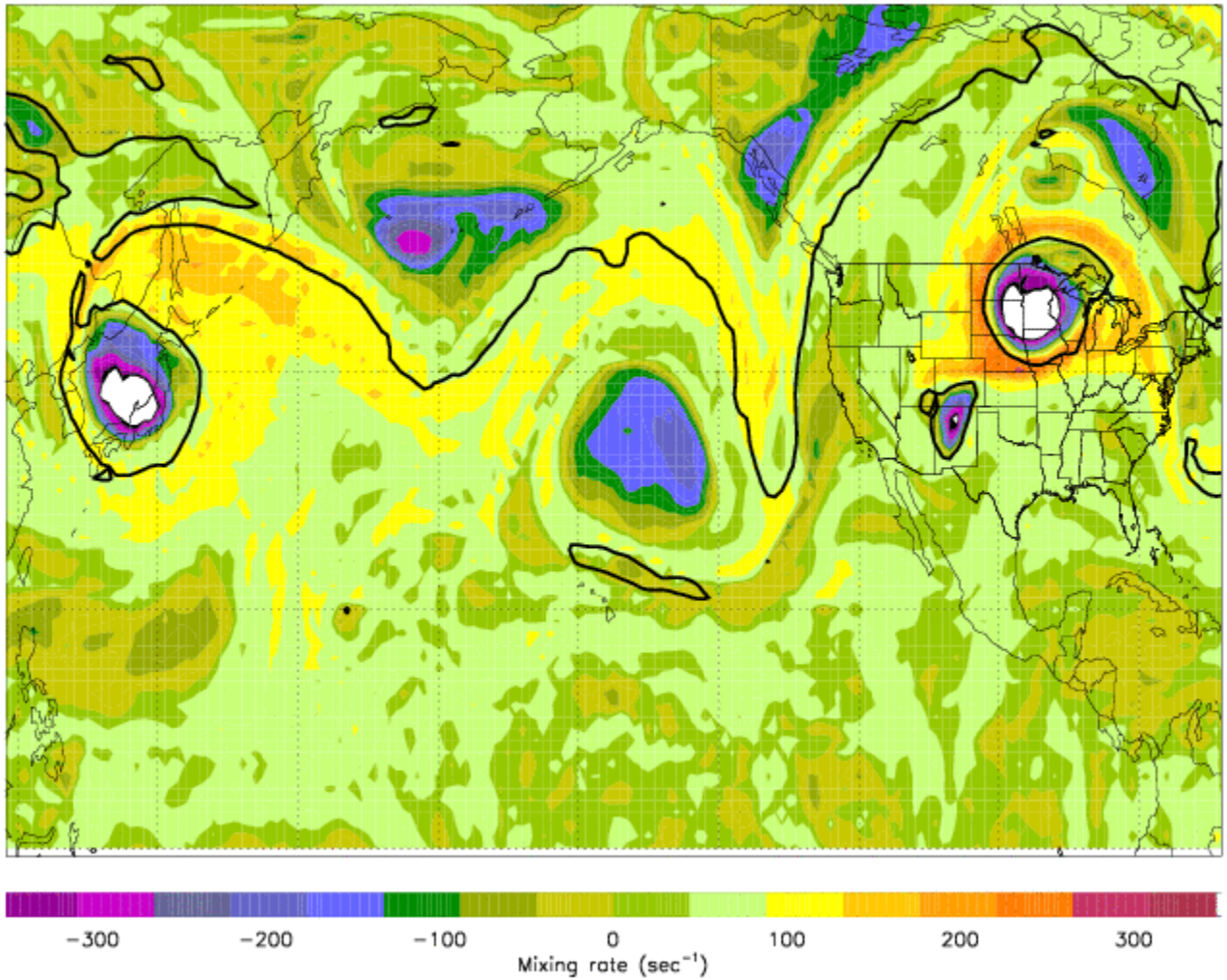
200–400mb Layer averaged –48hr RDF water vapor valid 2006042100
(Layer averaged 2.5 PVU isopleth in Black)



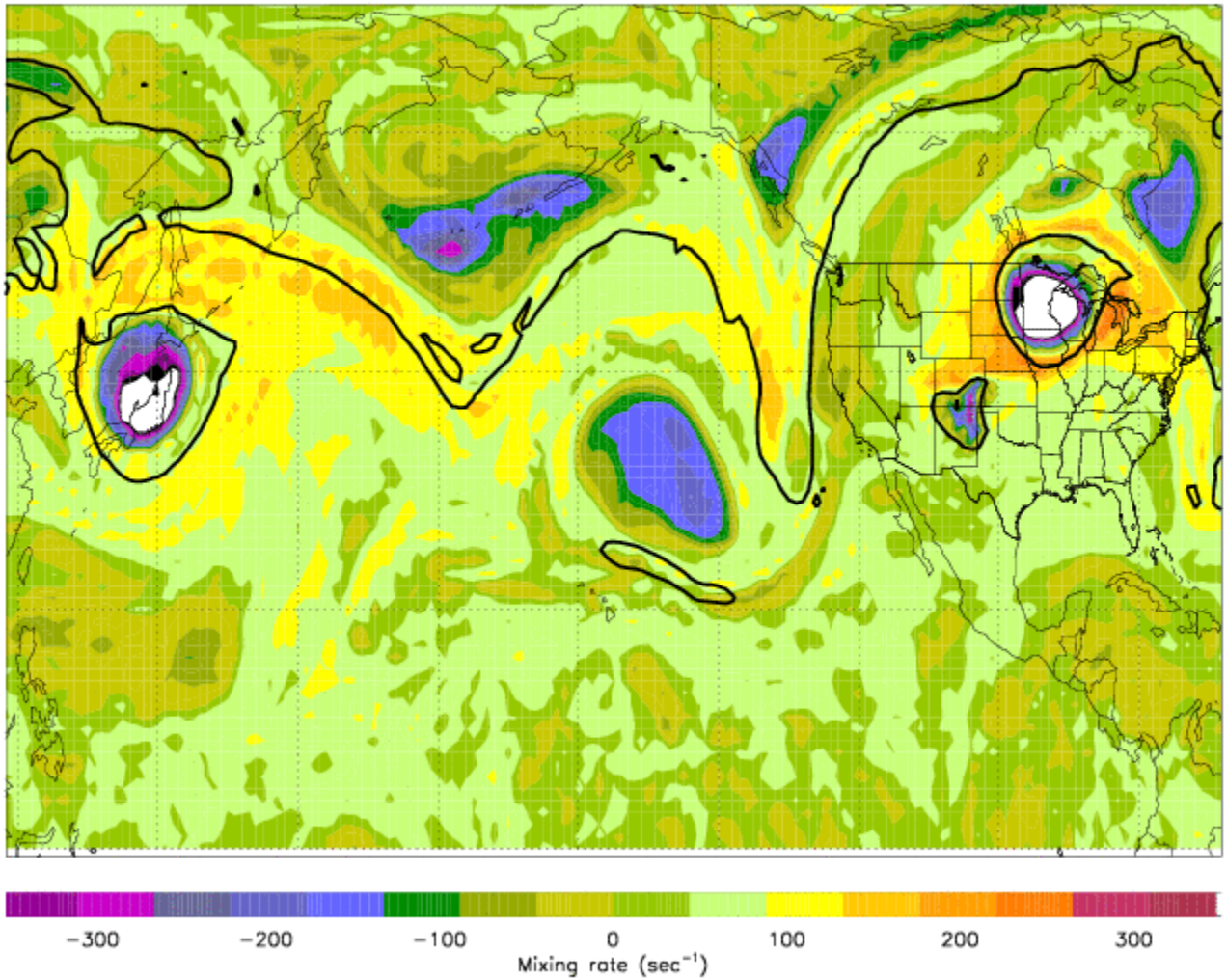
200–400mb Layer averaged –48hr RDF water vapor valid 2006042106
(Layer averaged 2.5 PVU isopleth in Black)



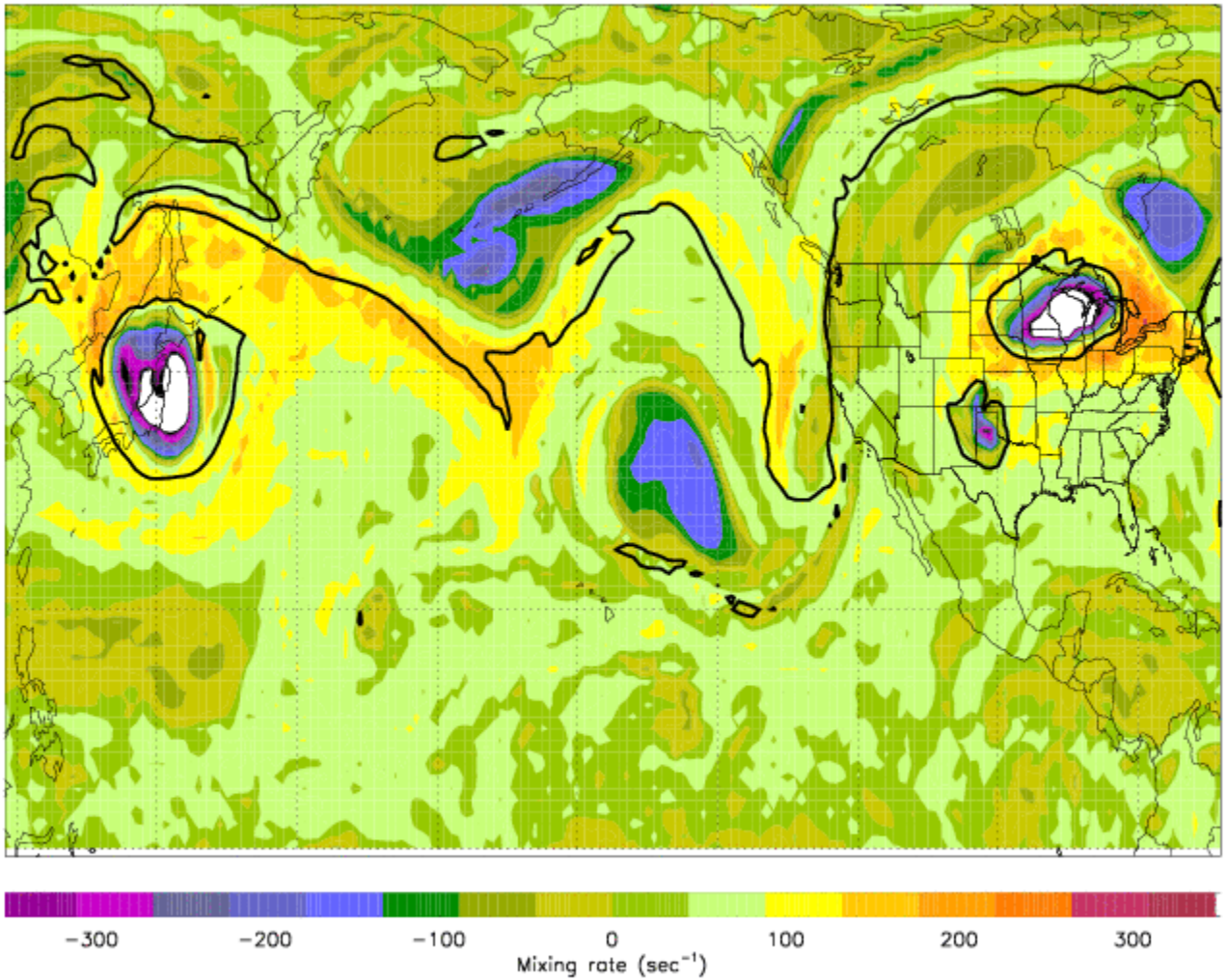
200–400mb Layer averaged/time averaged –48hr RDF Mixing rate valid 2006042018
(Layer averaged 2.5 PVU isopleth in Black)



200–400mb Layer averaged/time averaged –48hr RDF Mixing rate valid 2006042100
(Layer averaged 2.5 PVU isopleth in Black)

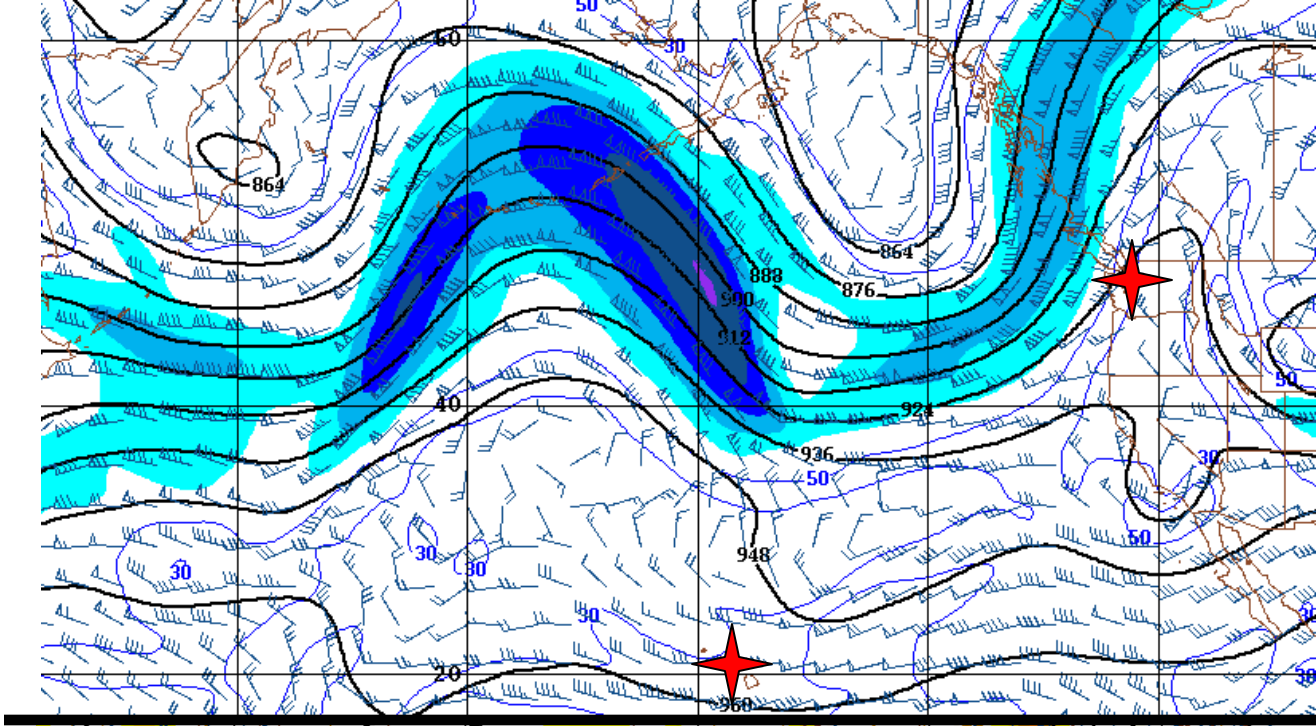


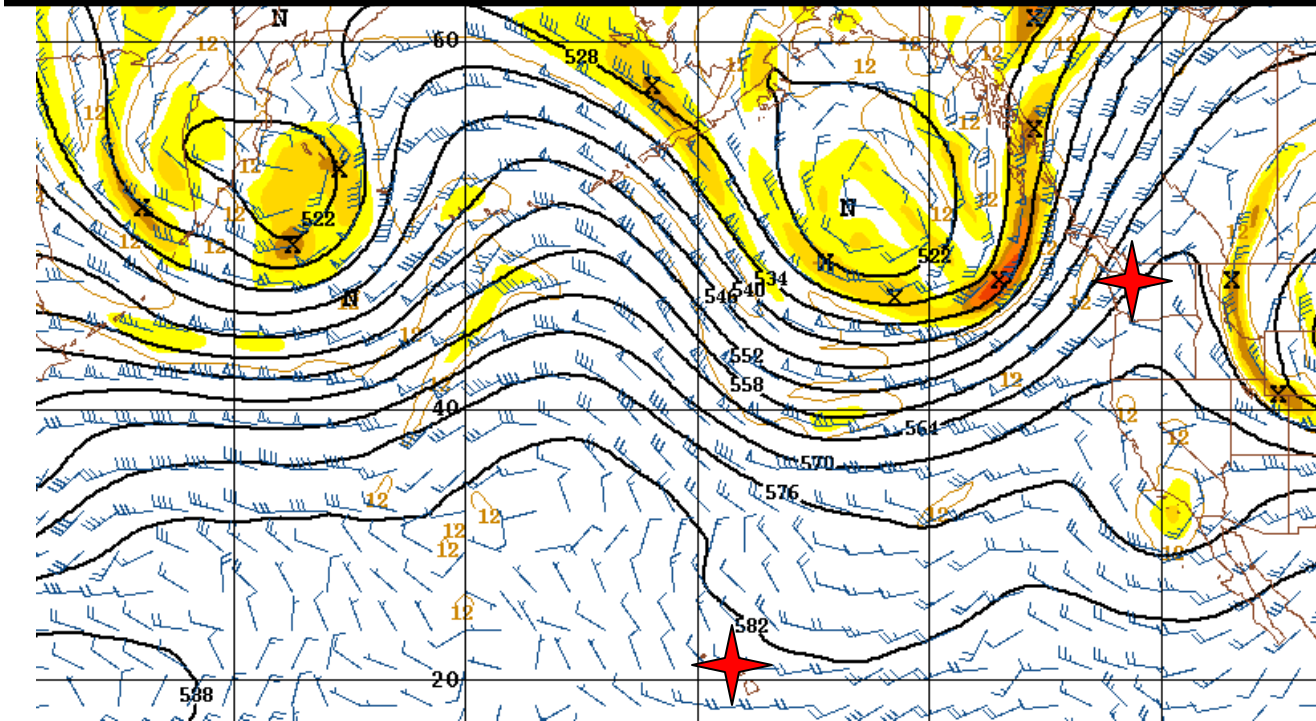
200–400mb Layer averaged/time averaged –48hr RDF Mixing rate valid 2006042106
(Layer averaged 2.5 PVU isopleth in Black)



300 mb Winds

Wed, 6 z

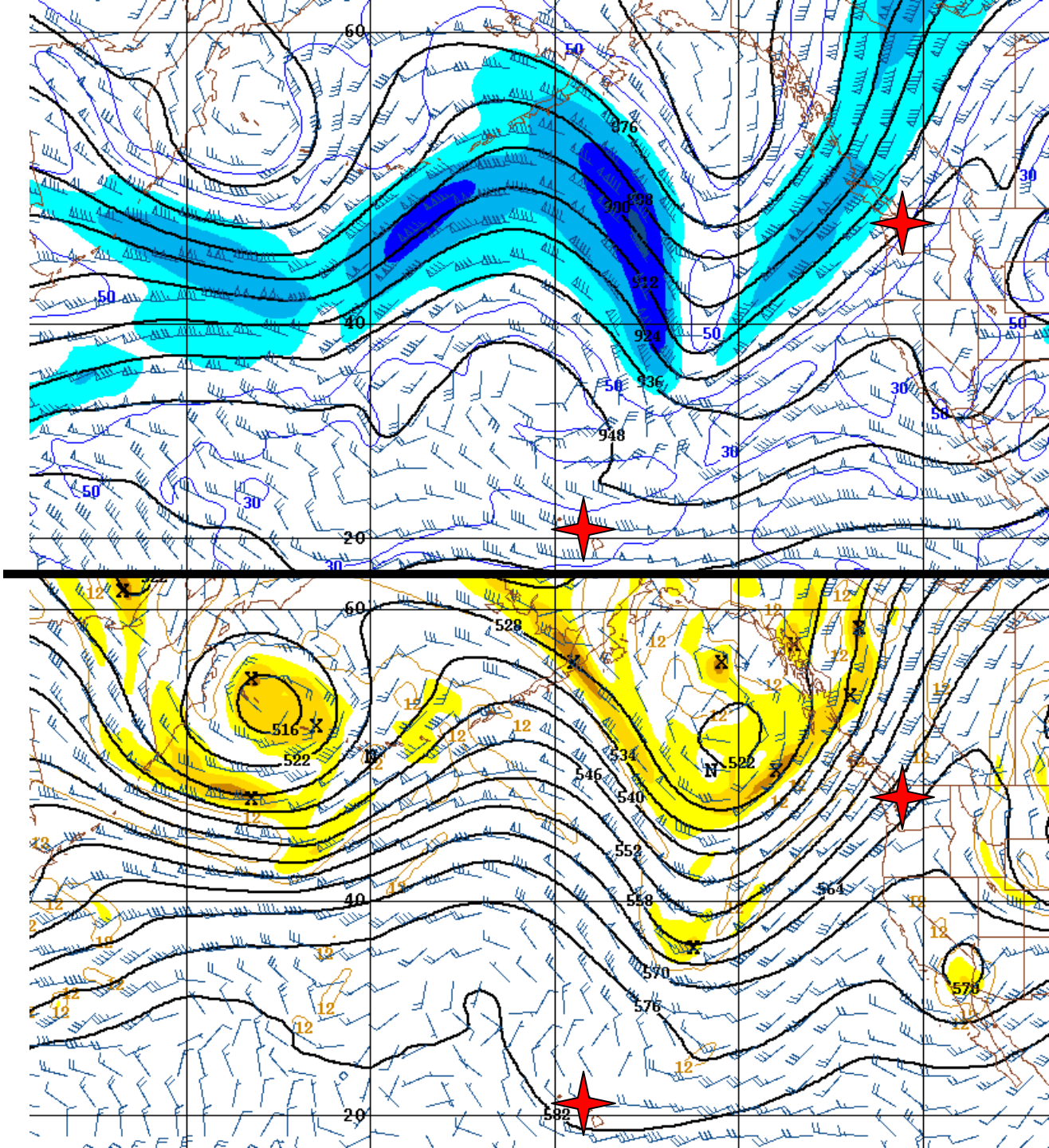




500 mb Vorticity

300 mb Winds

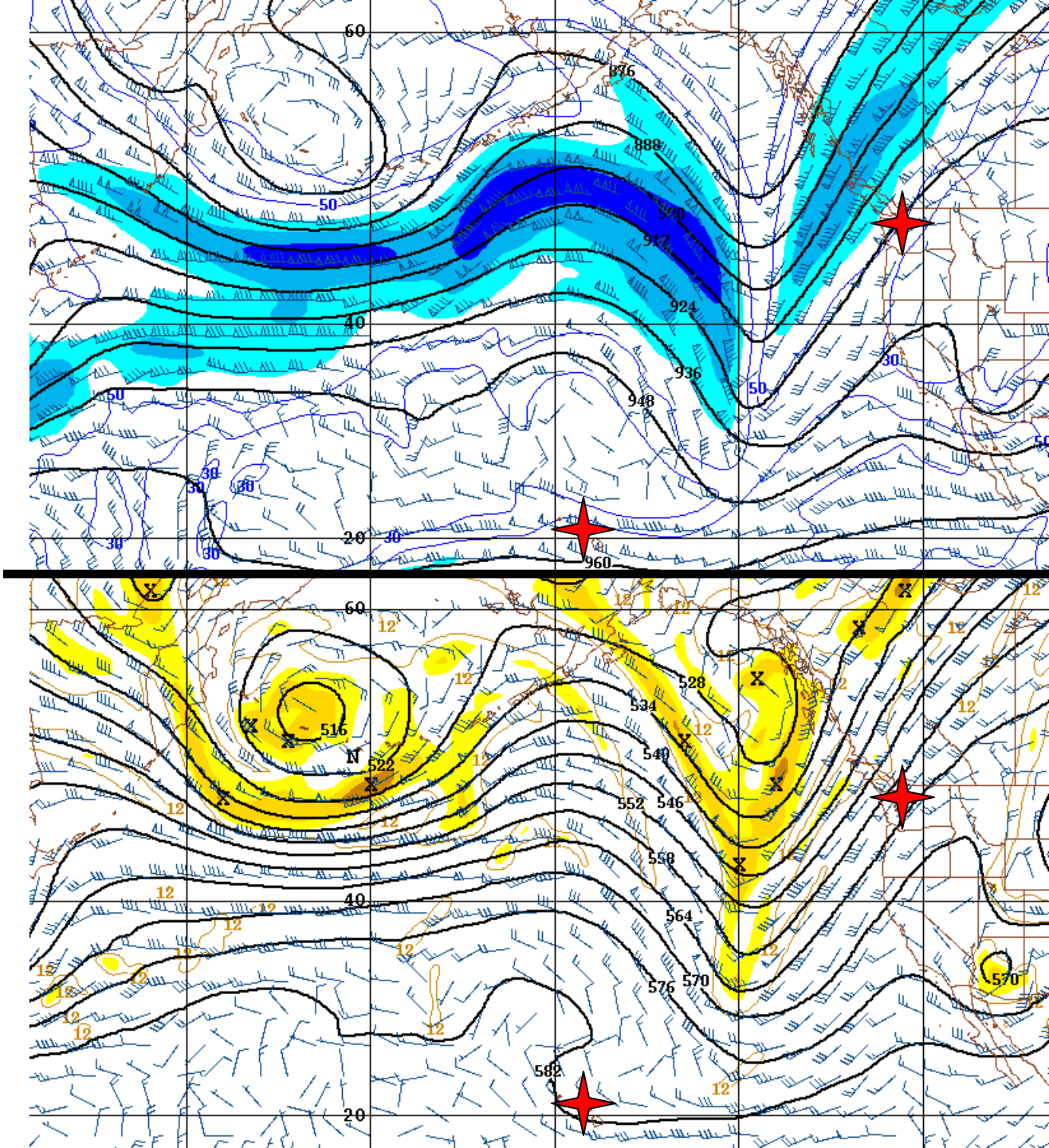
Wed, 18 z



500 mb Vorticity

300 mb Winds

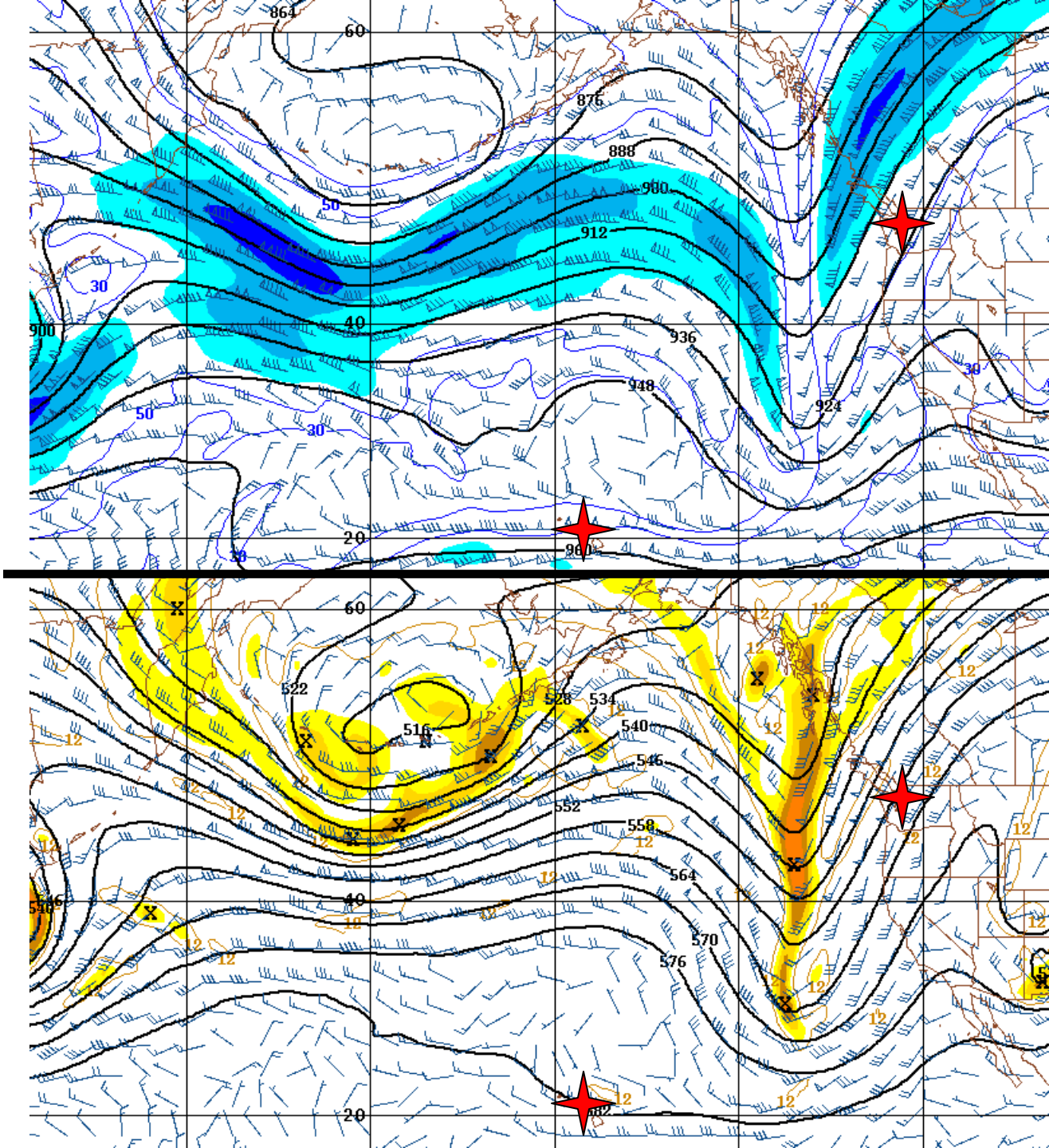
Thur, 6 z



500 mb Vorticity

300 mb Winds

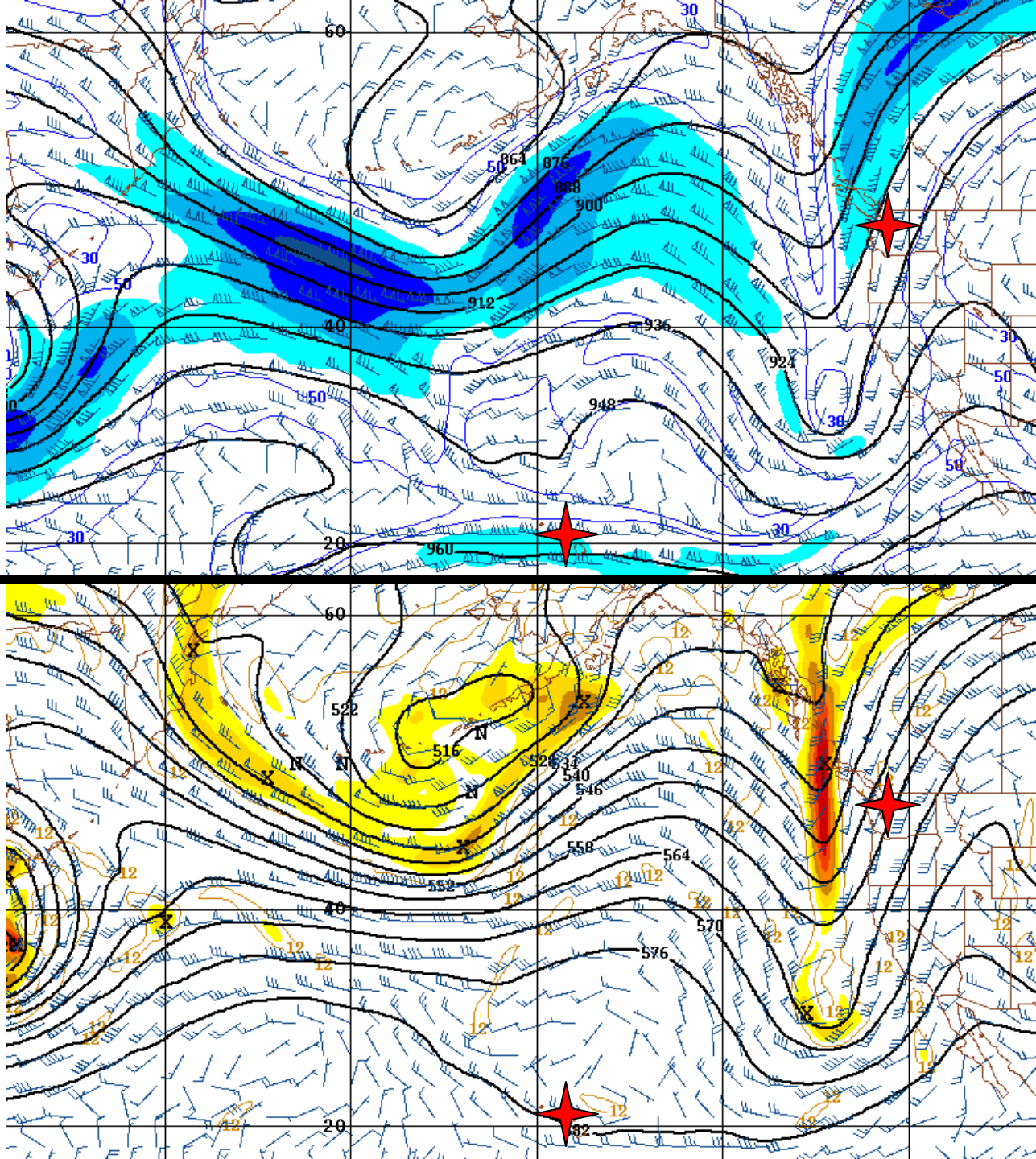
Thur, 18 z



500 mb Vorticity

300 mb Winds

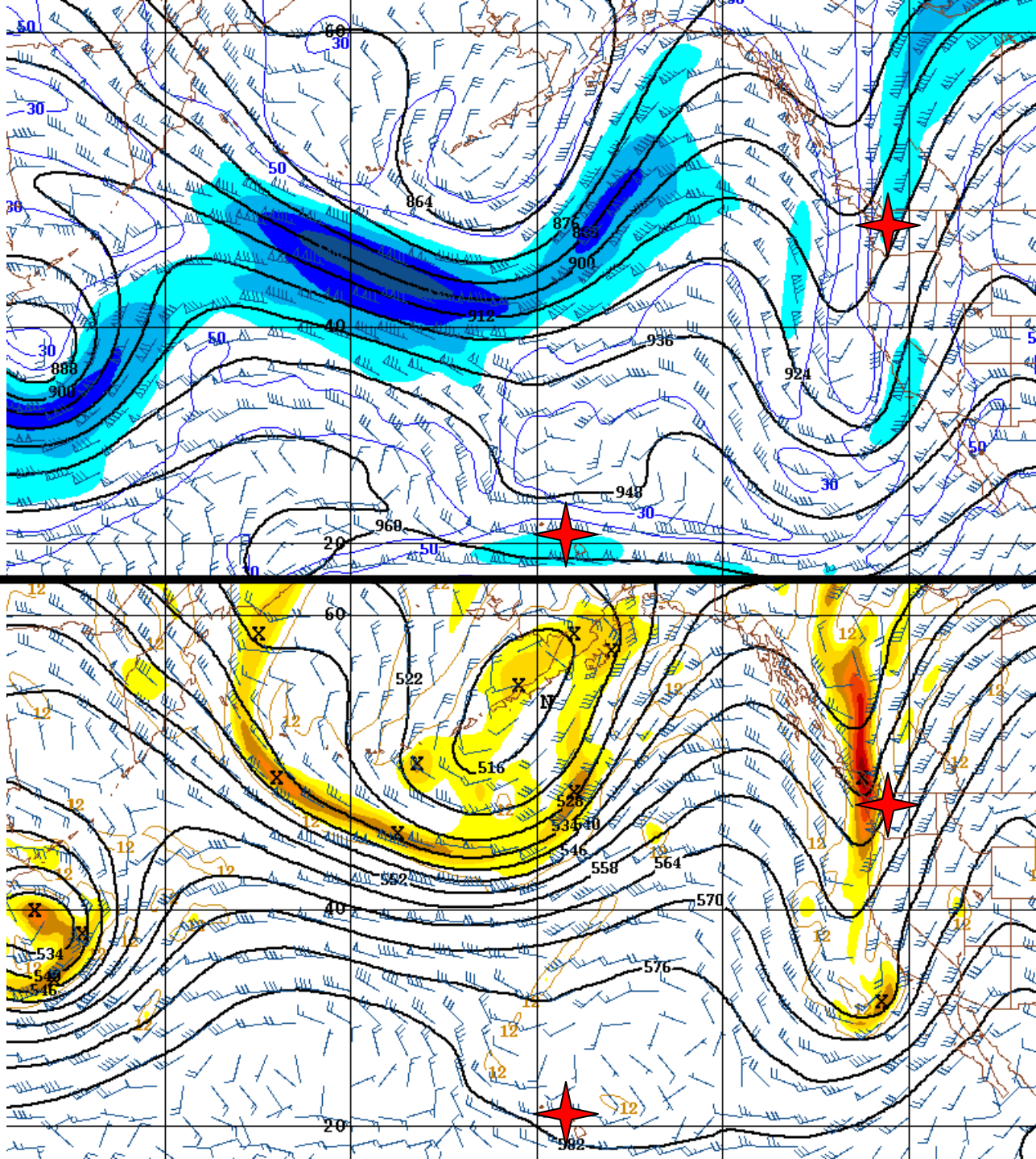
Fri, 6 z



500 mb Vorticity

300 mb Winds

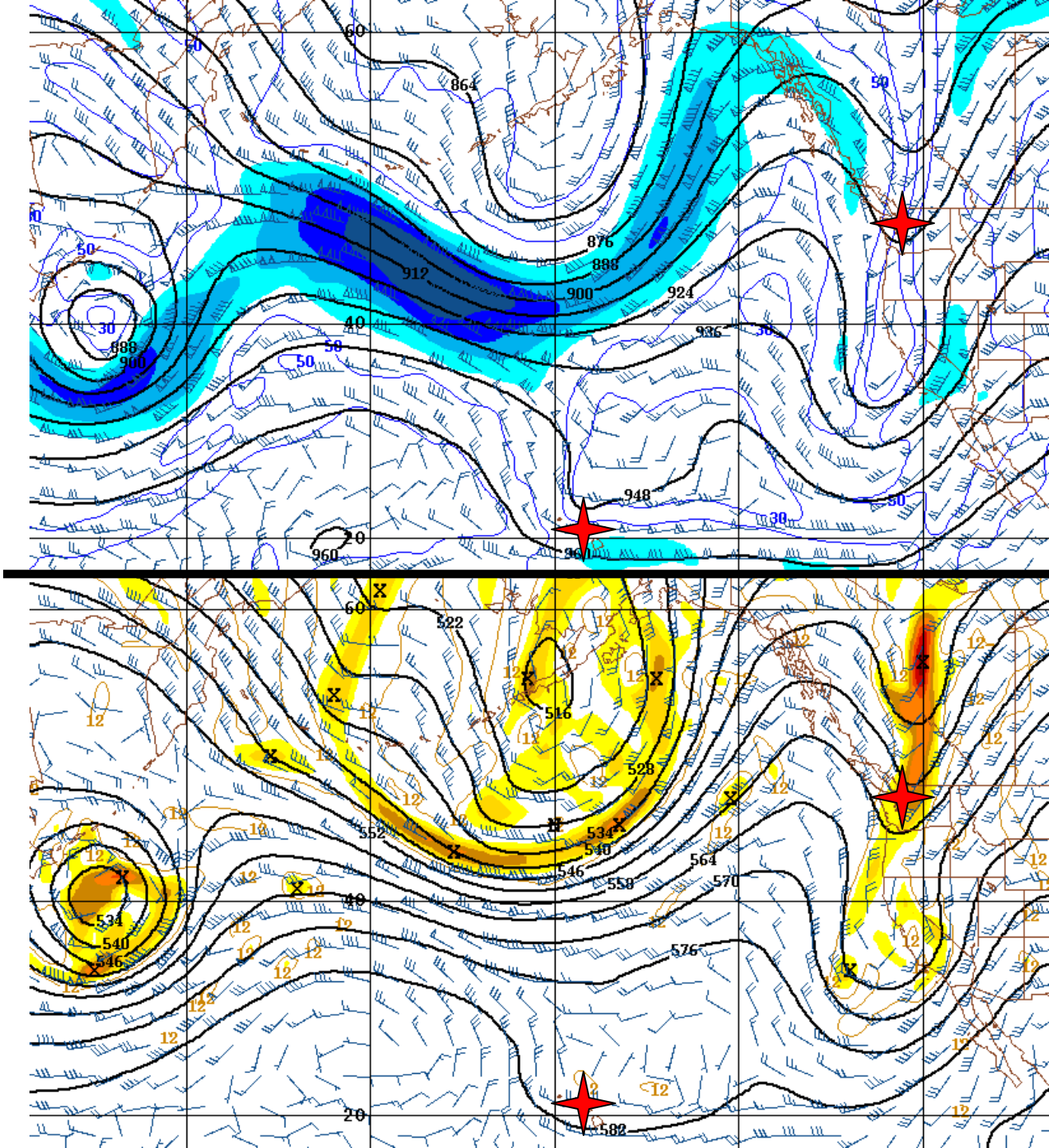
Fri, 18 z



500 mb Vorticity

300 mb Winds

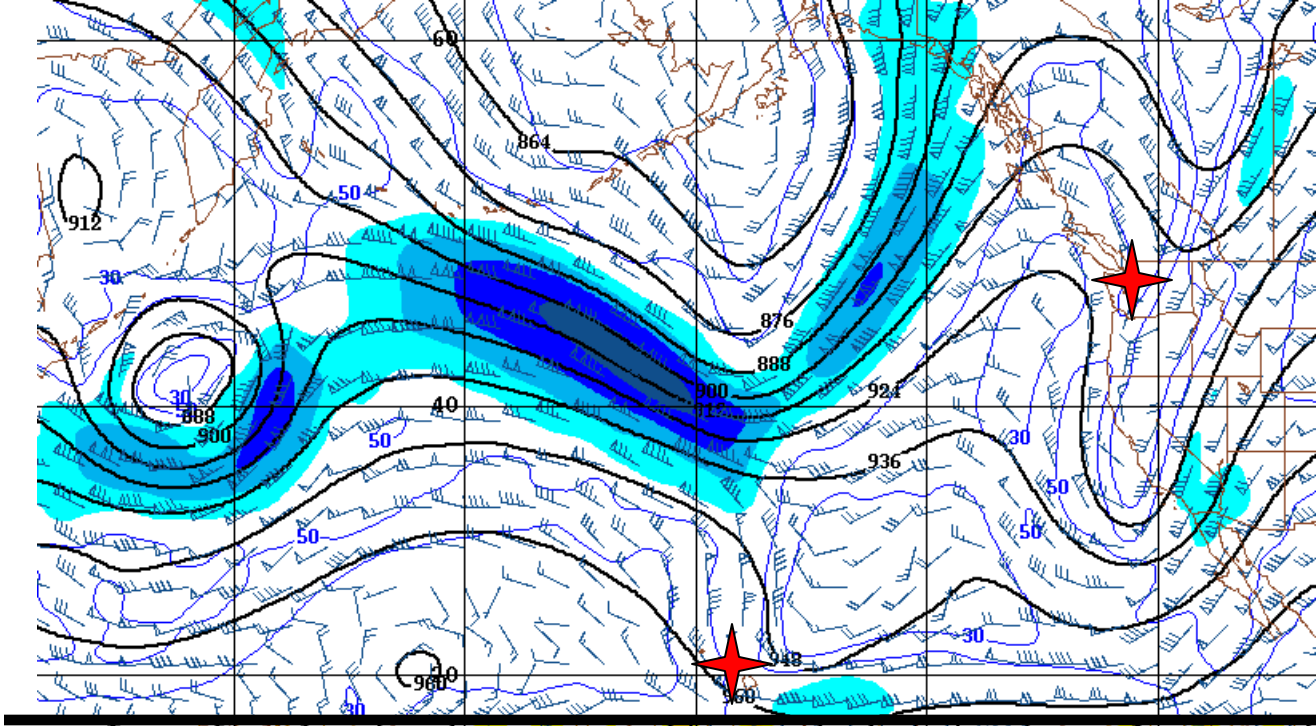
Sat, 6 z

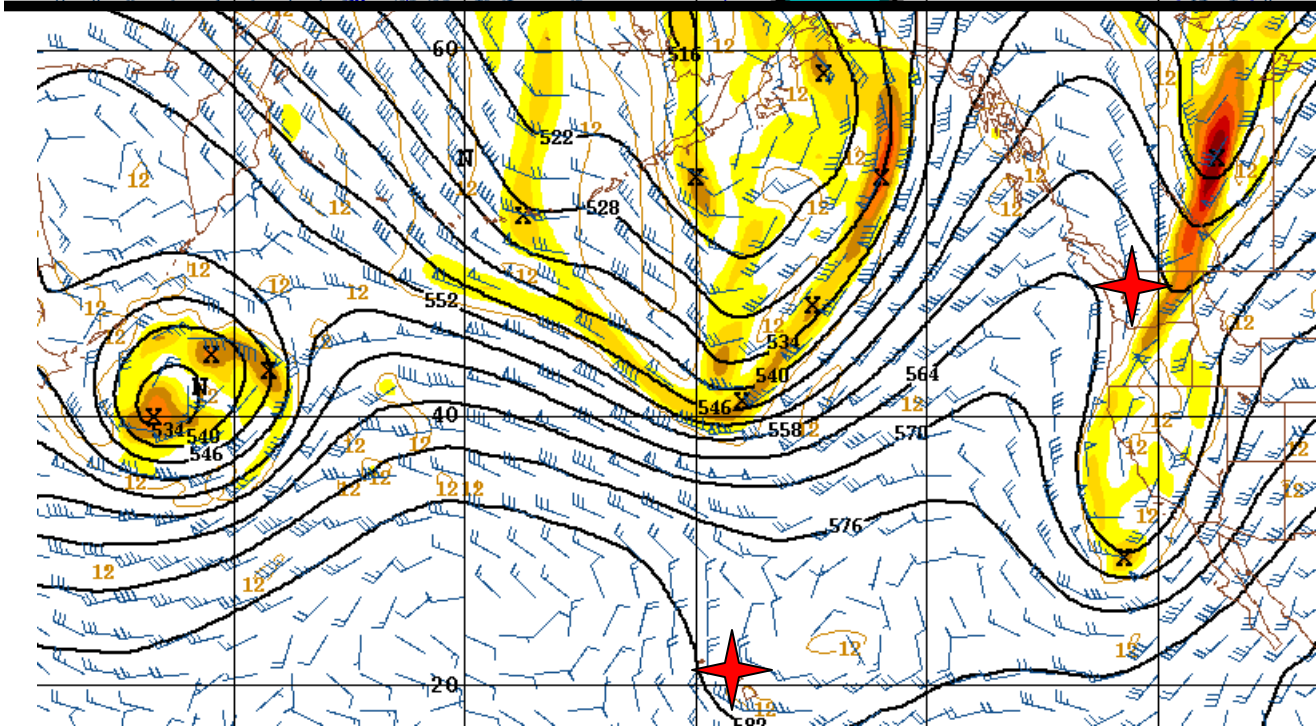


500 mb Vorticity

300 mb Winds

Sat, 18 z

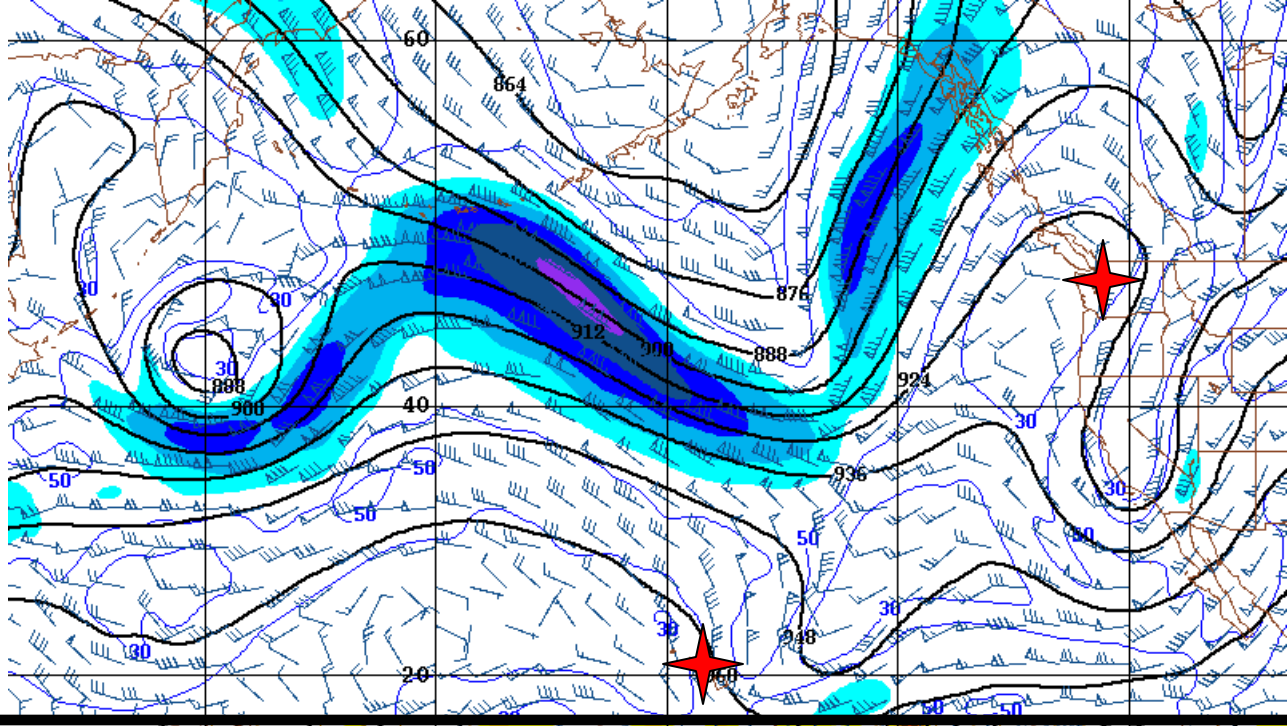


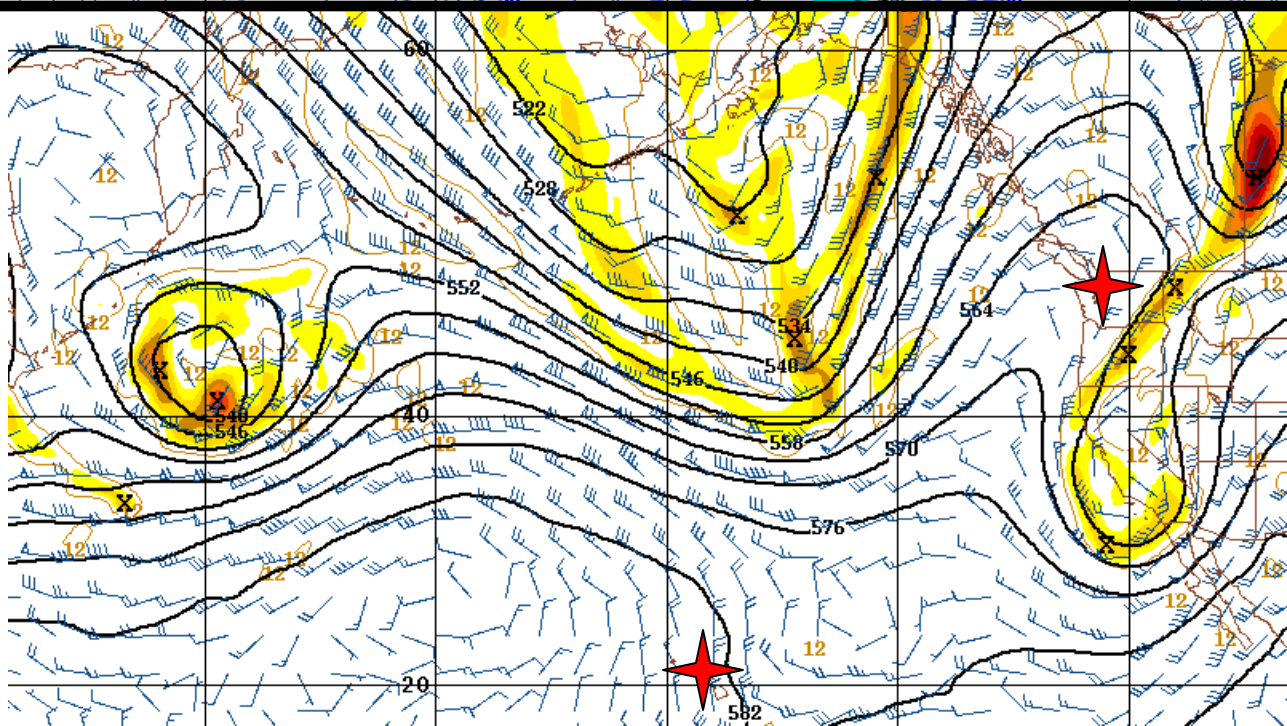


500 mb Vorticity

300 mb Winds

Sun, 6 z

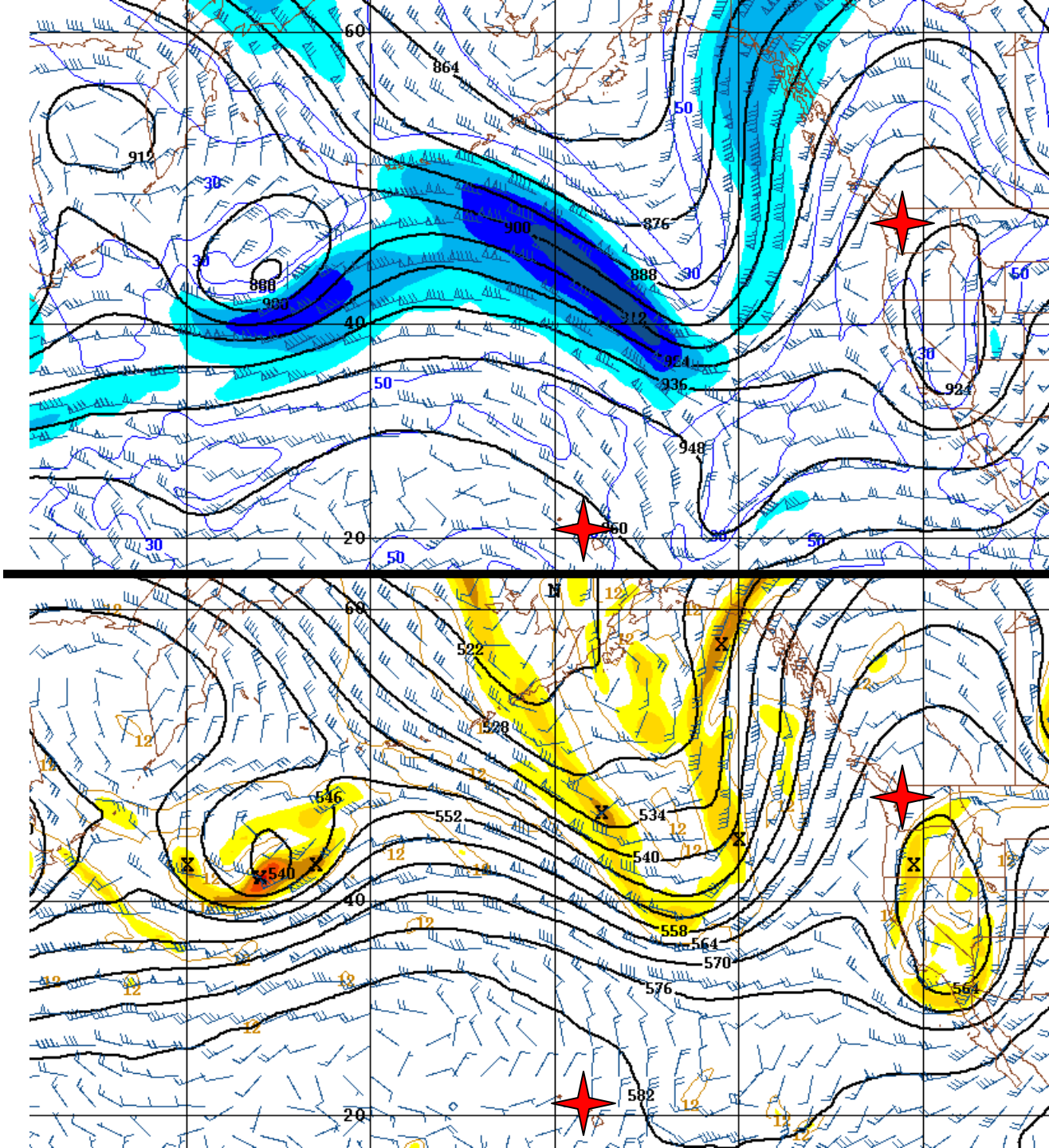




500 mb Vorticity

300 mb Winds

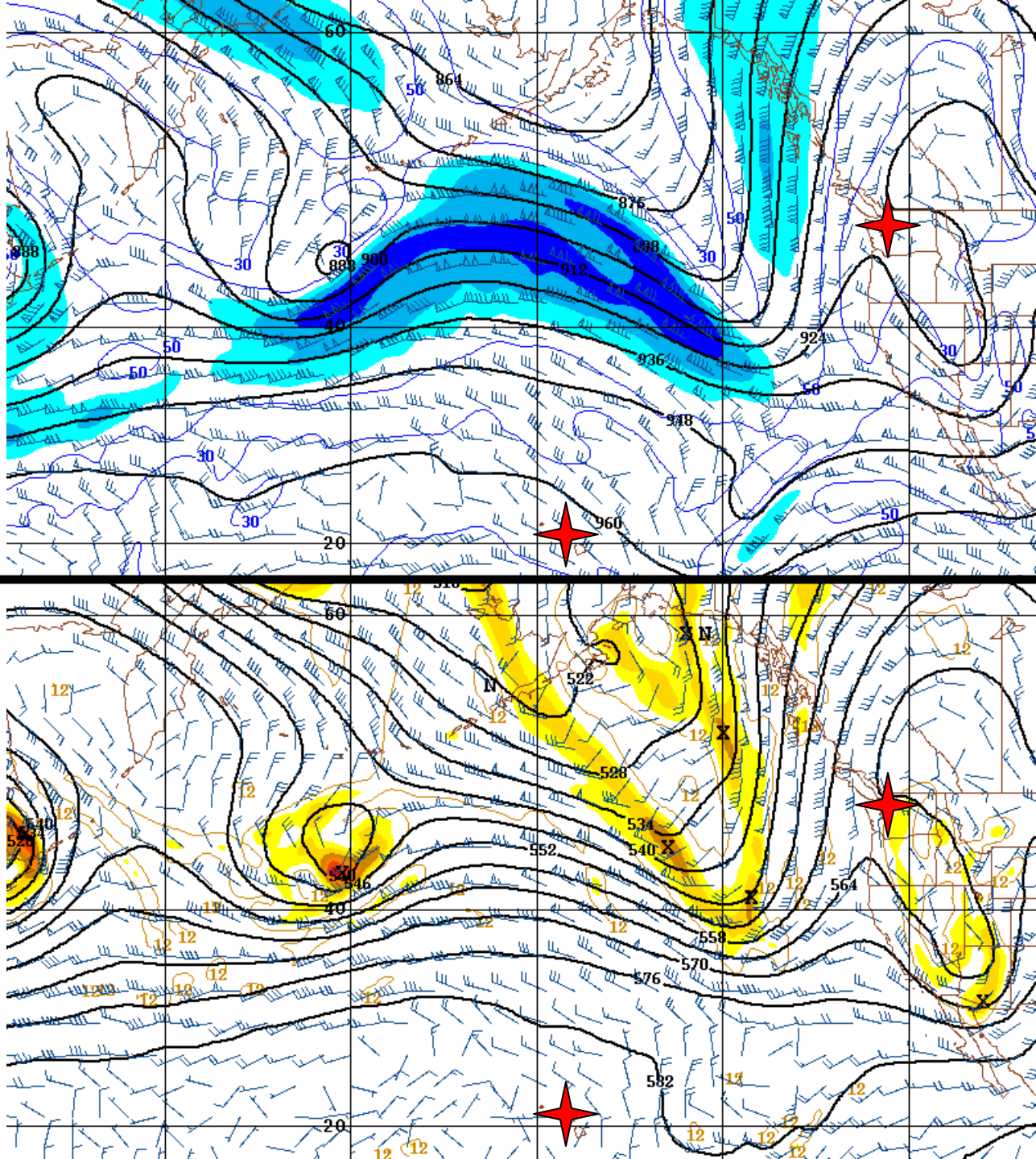
Sun, 18 z



500 mb Vorticity

300 mb Winds

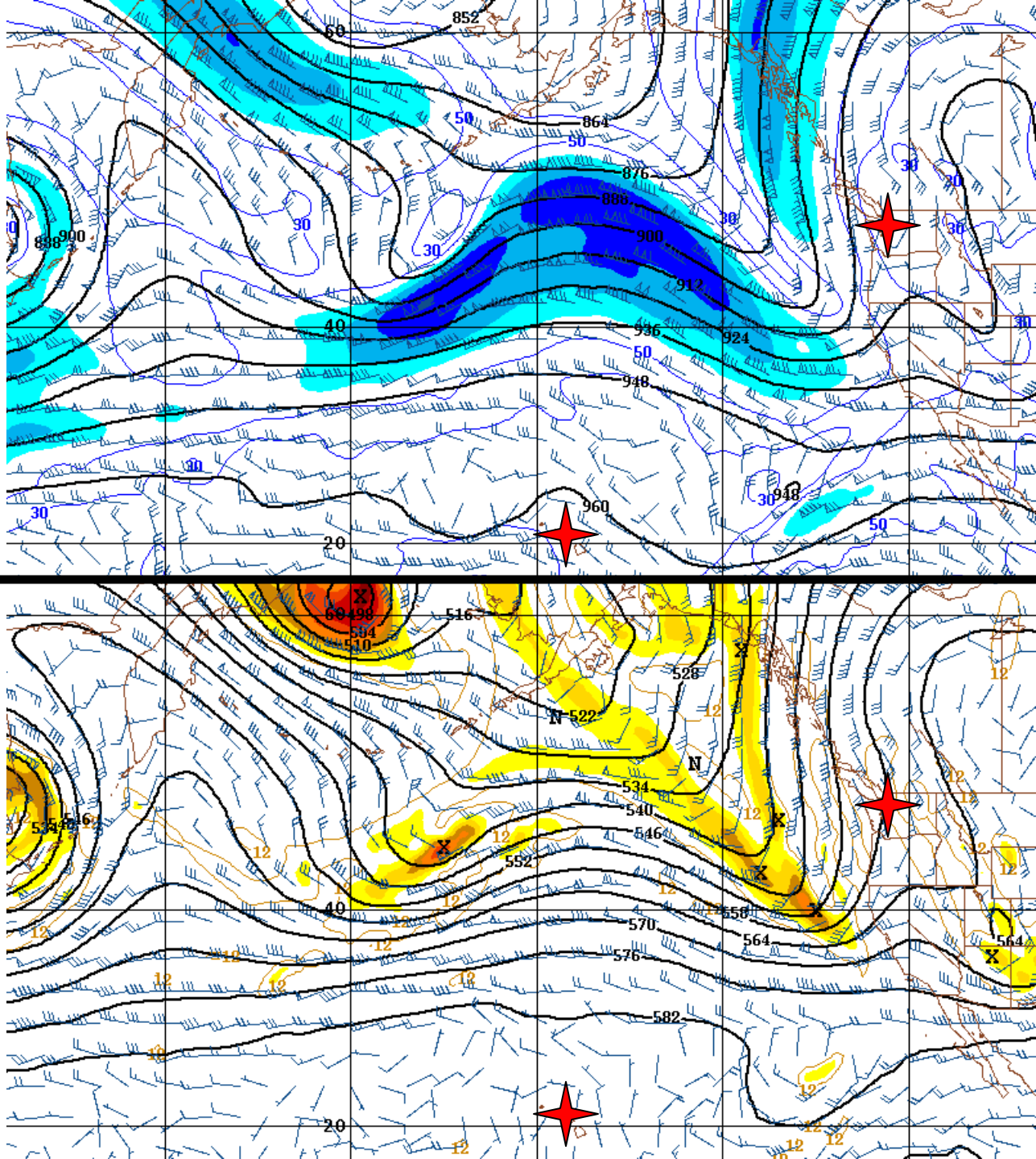
Mon, 6 z



500 mb Vorticity

300 mb Winds

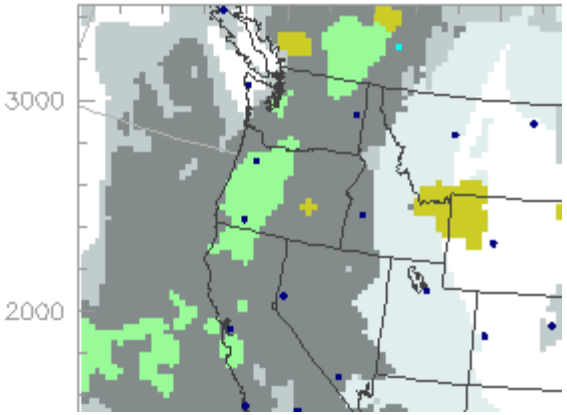
Mon, 18 z

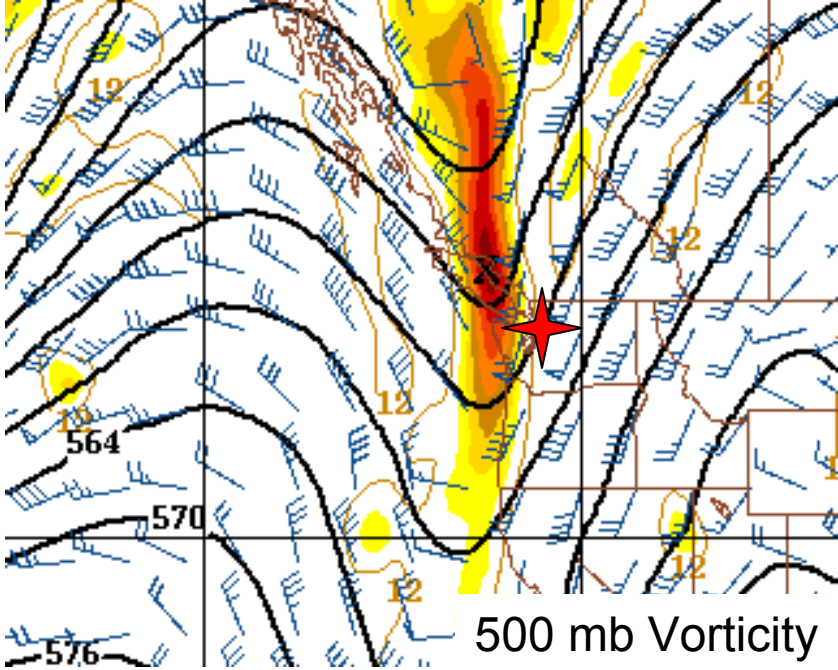


500 mb Vorticity

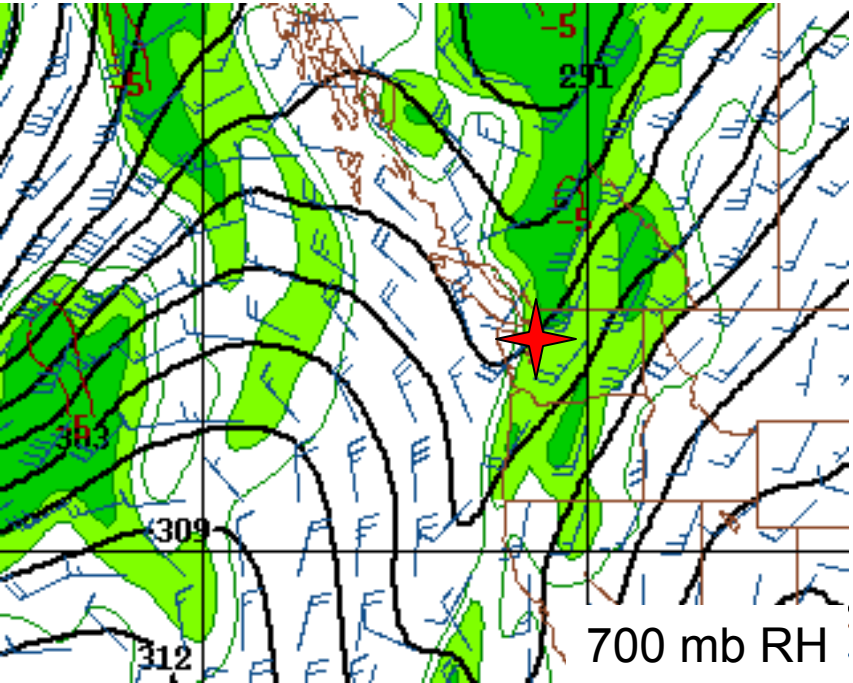
Friday, 18 z

66 hr WRF forecast

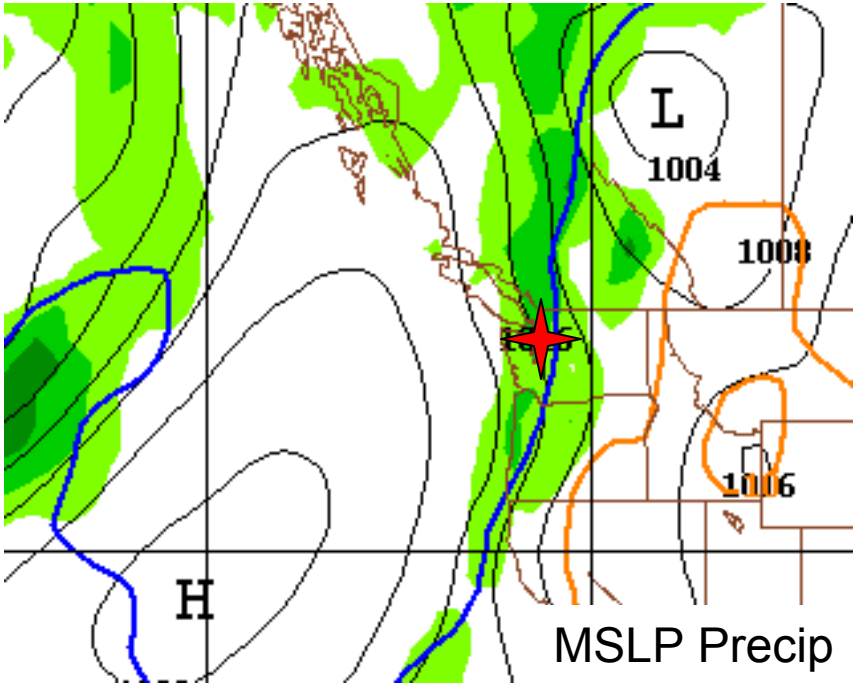




500 mb Vorticity



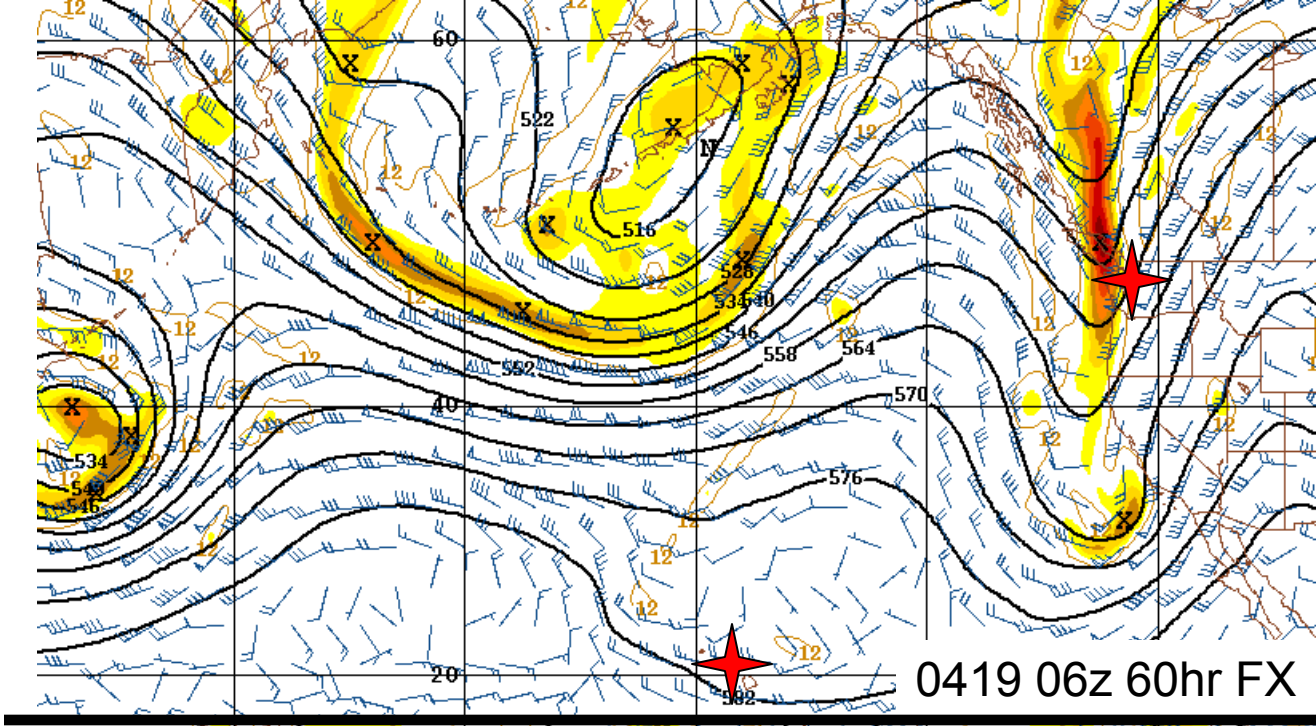
700 mb RH

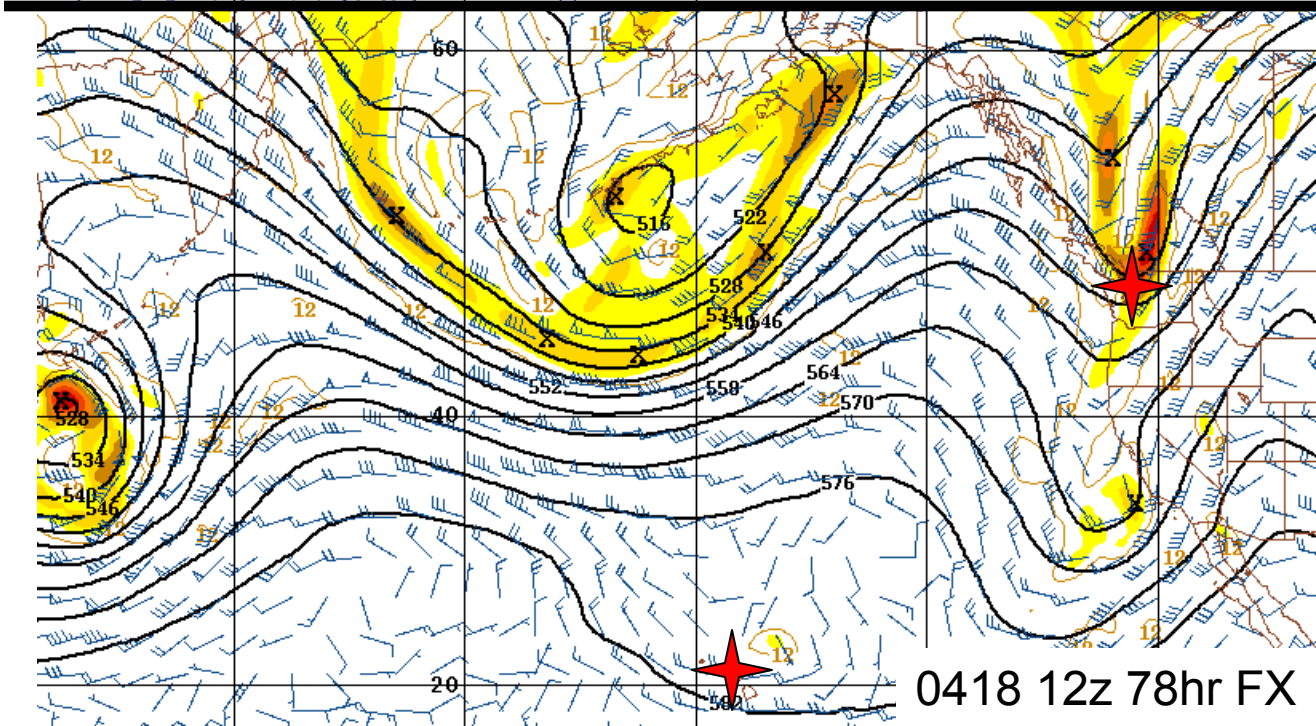


MSLP Precip

GFS Model Evolution

Fri, 18 z



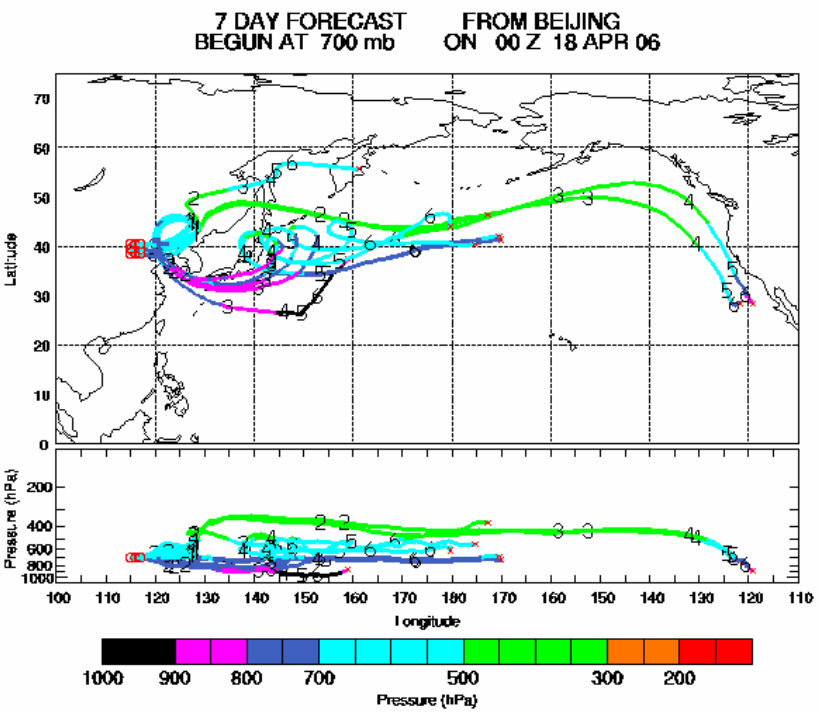


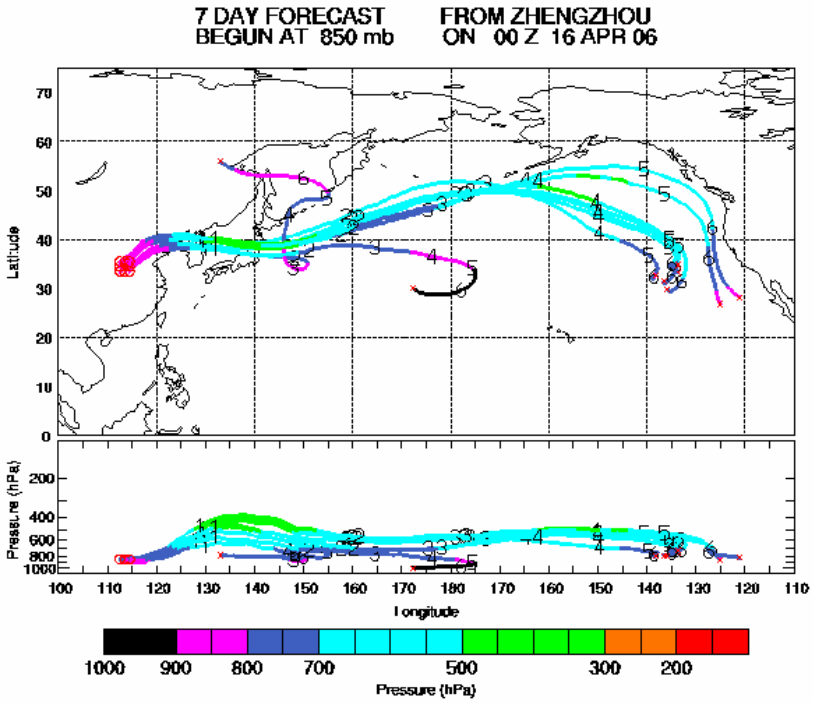
C

Chinese Forward Trajectories

Significant Spread,
but some consistency in Flow

Offshore on Fri, 0421

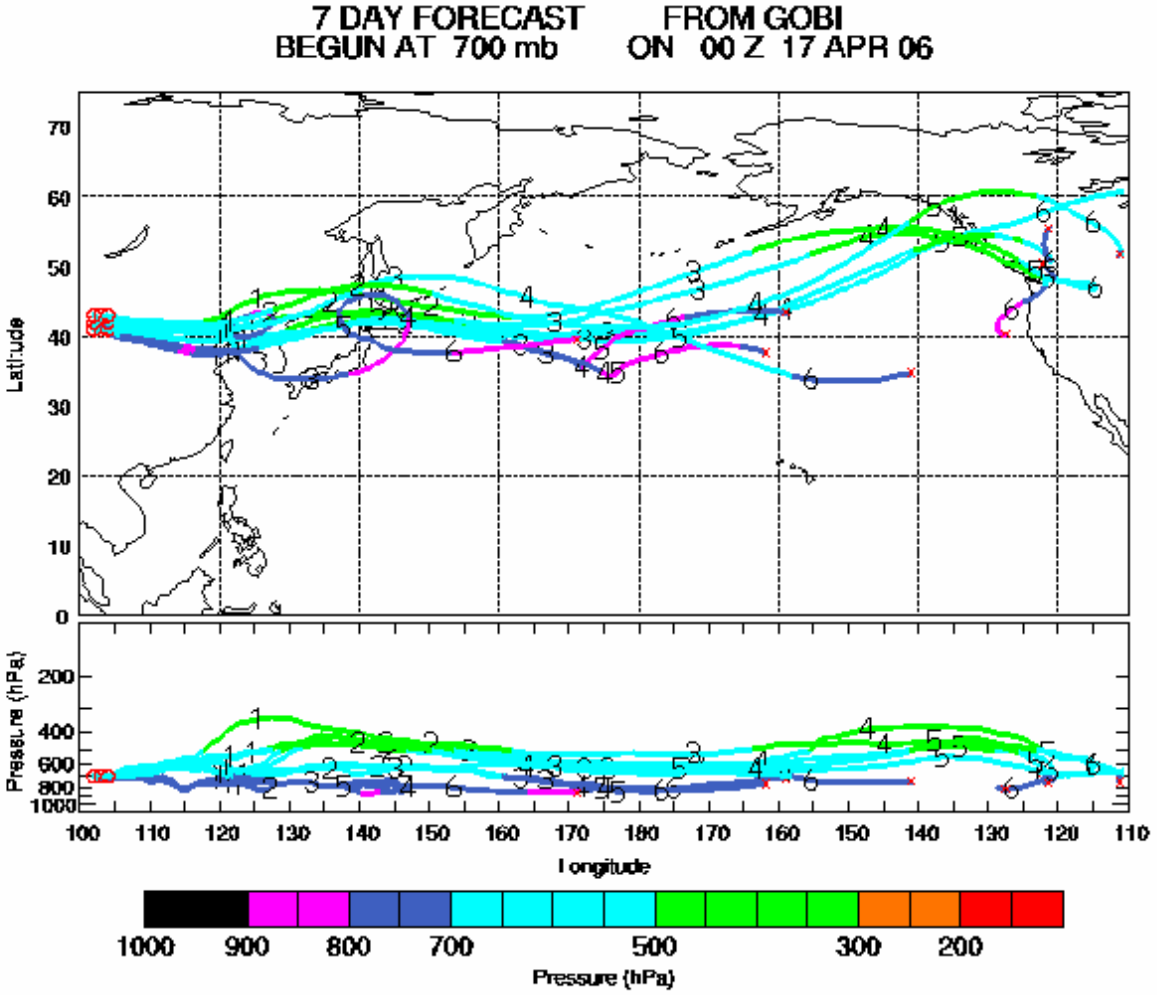




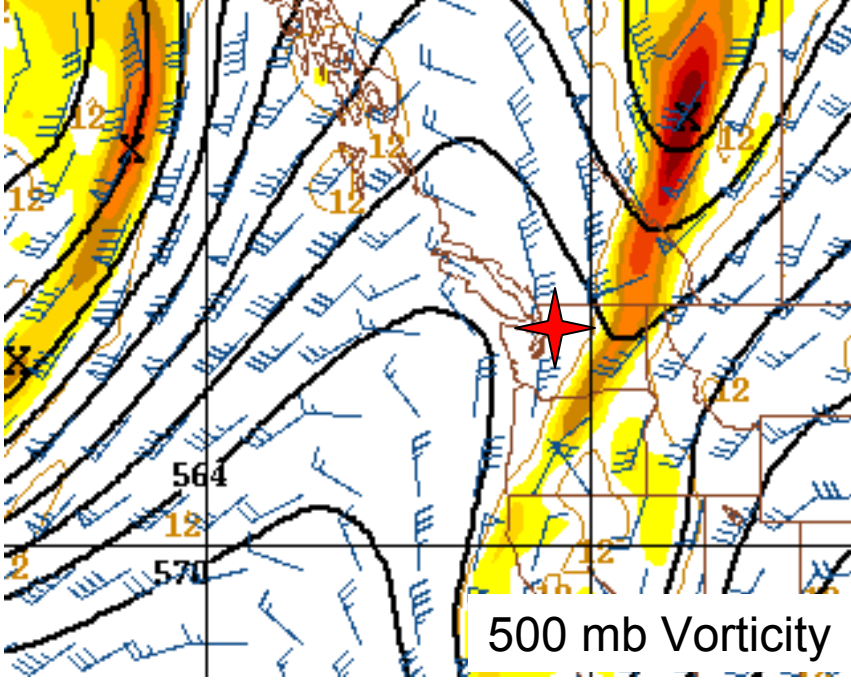
Gobi desert forwards

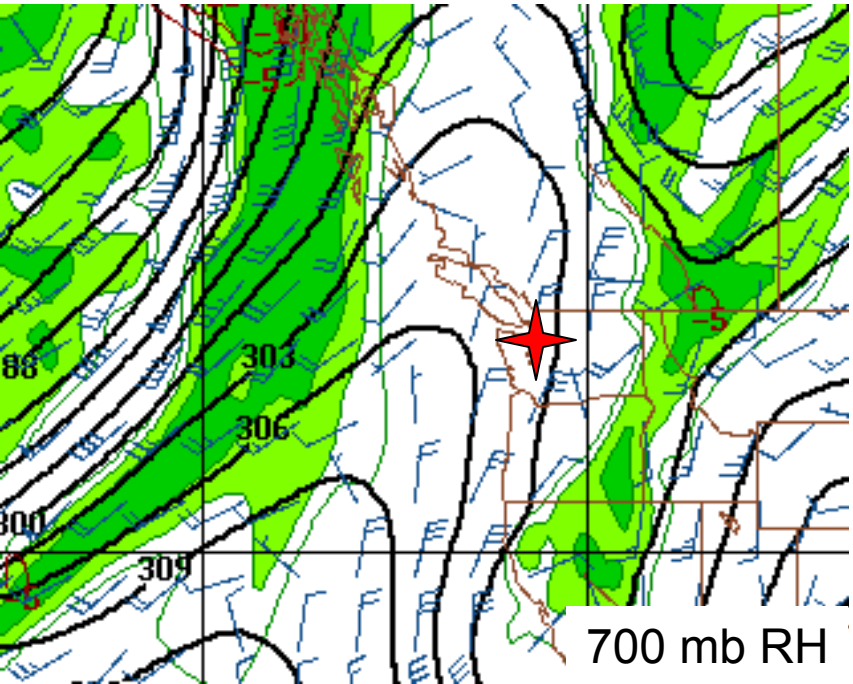
‘Dust’

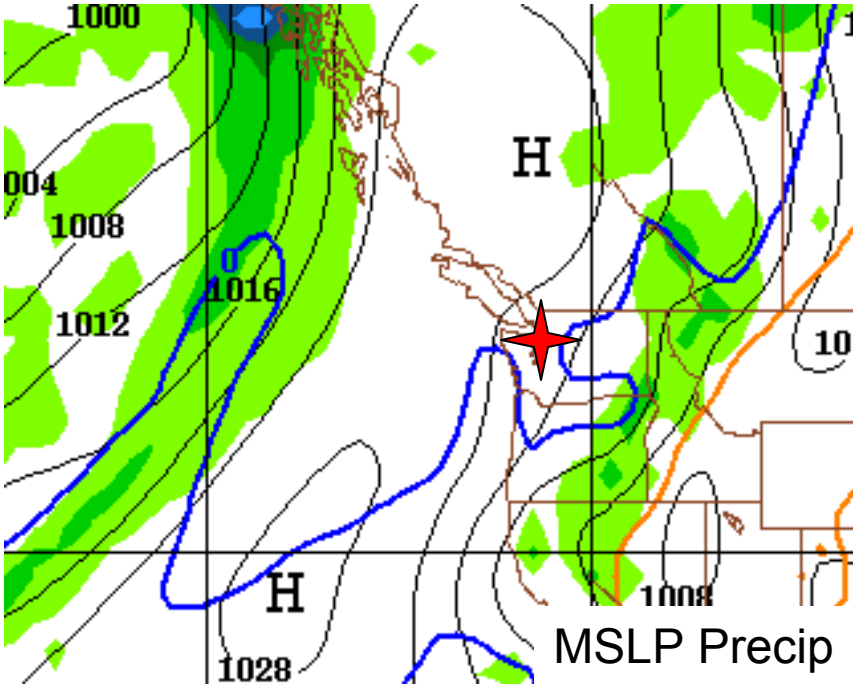
Located North on Friday 0421



Saturday, 18 z

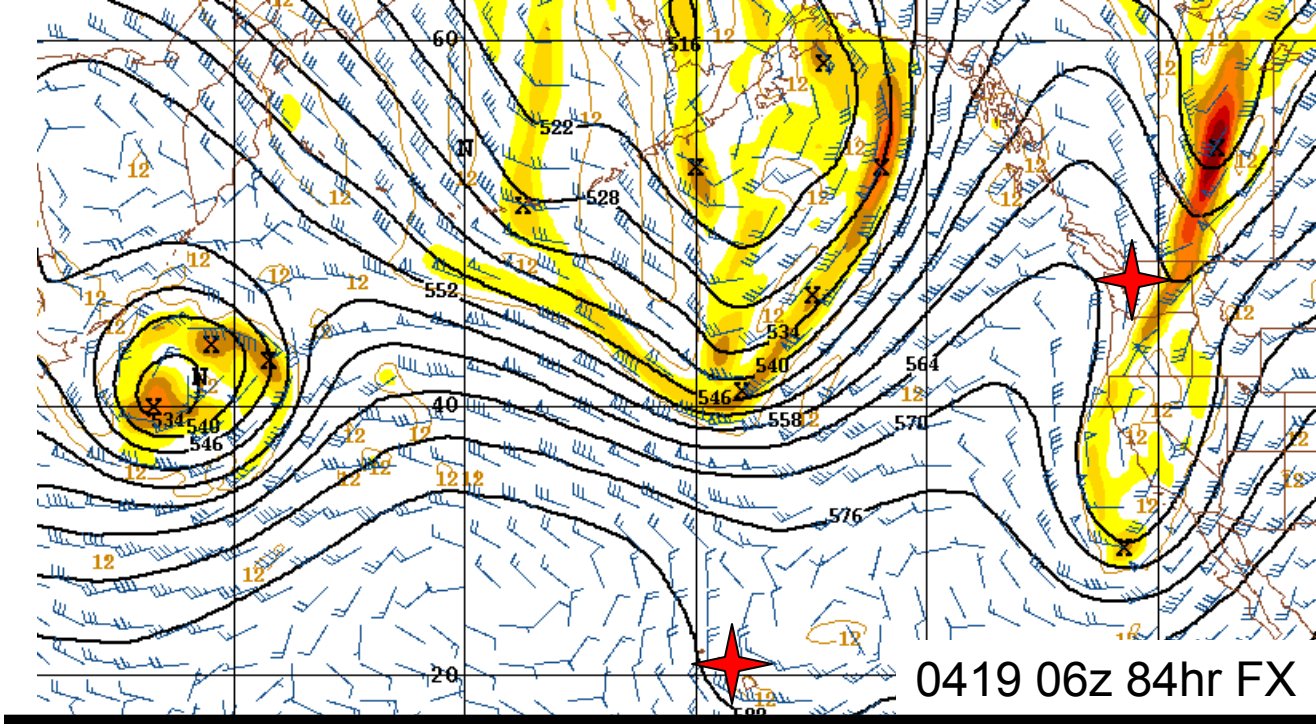


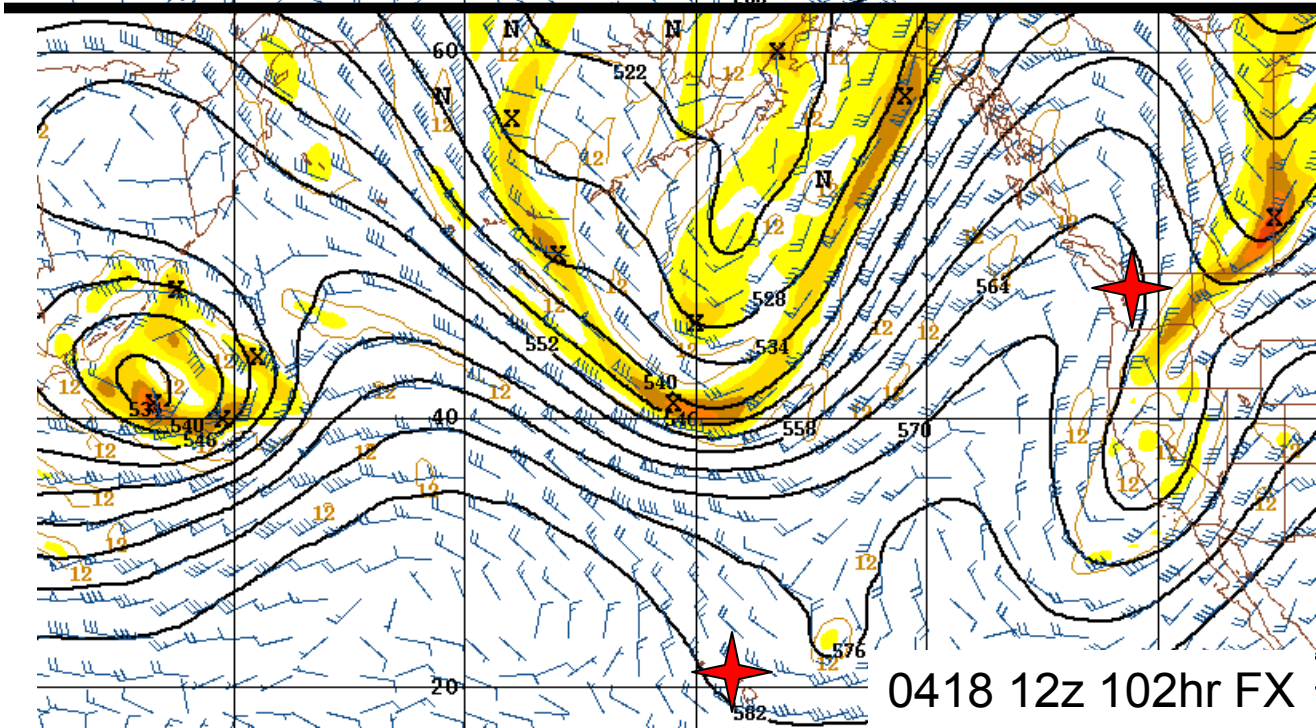




GFS Model Evolution

Sat, 18 z

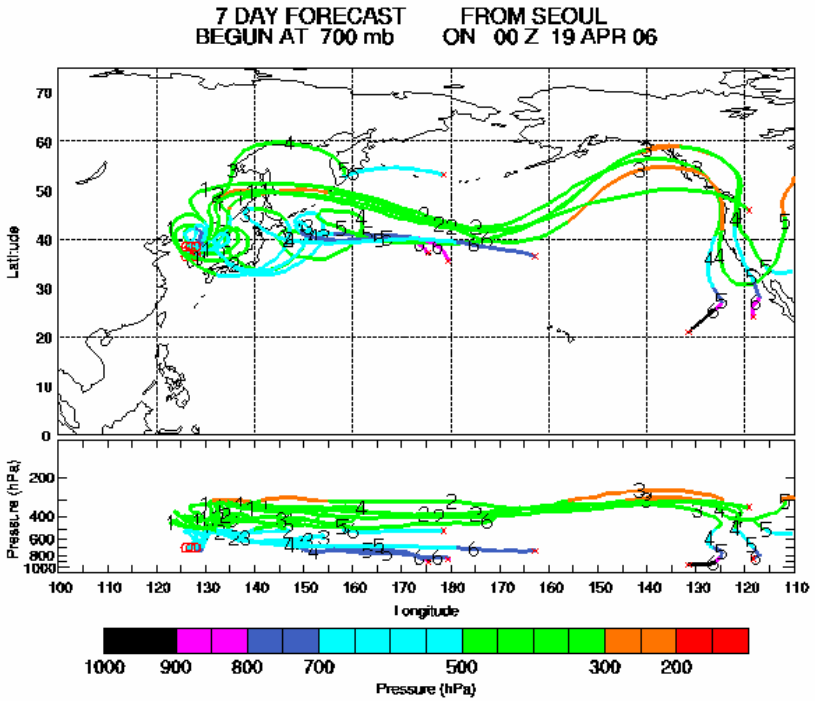


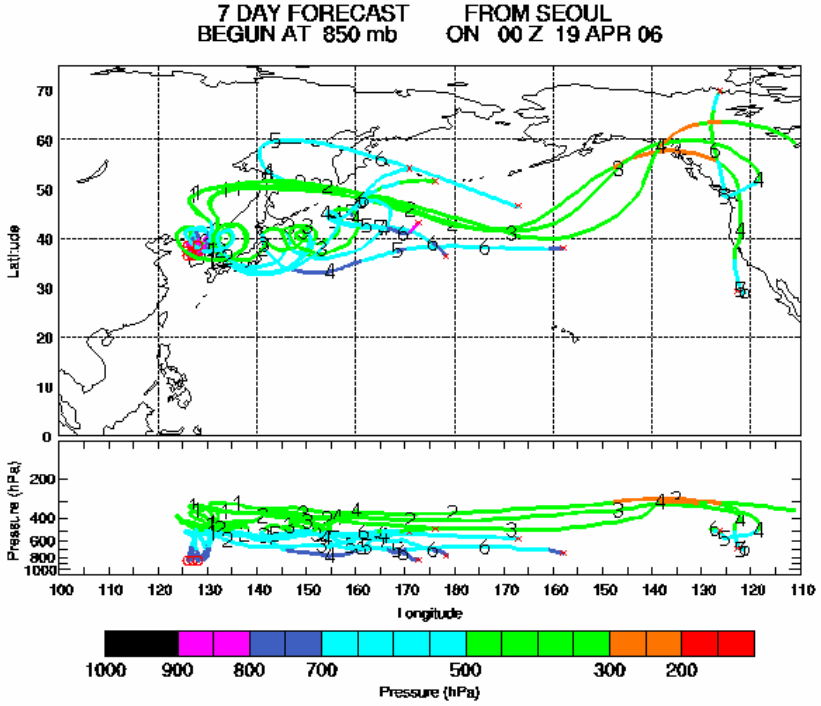


Seoul Forward Trajectories

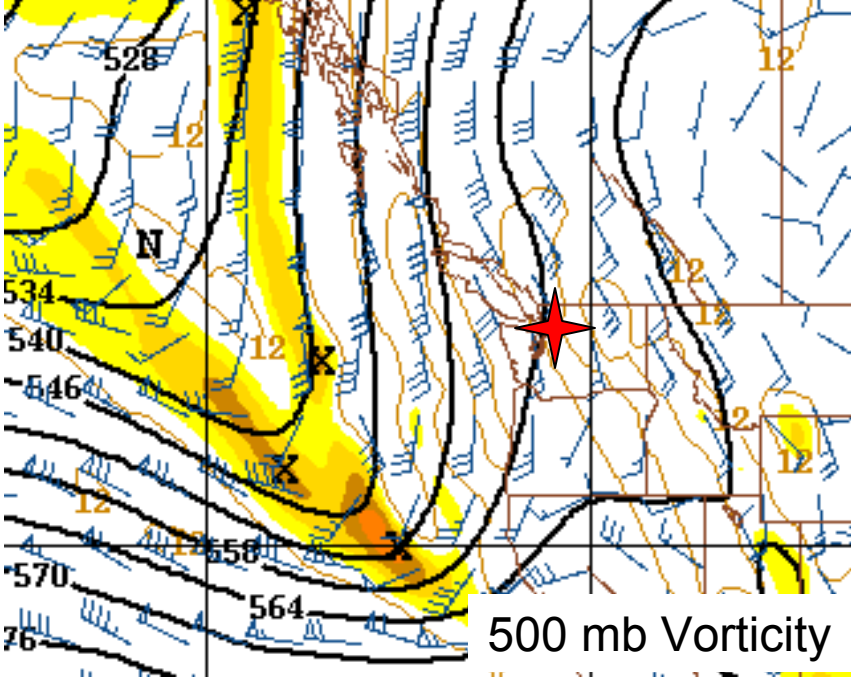
Rapid ascent over Asia,
Midlevel Transport

Offshore on Sat, 0422

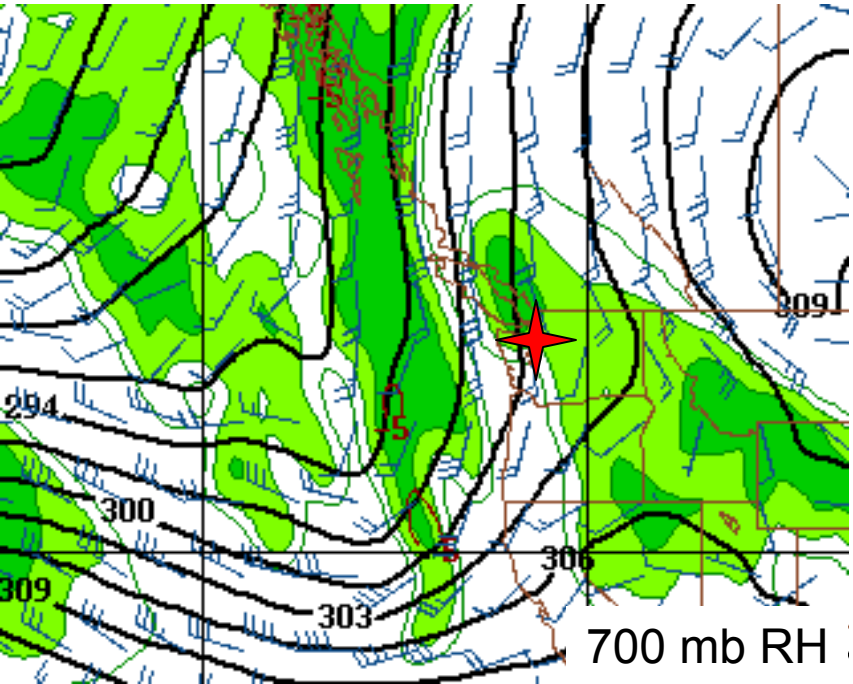




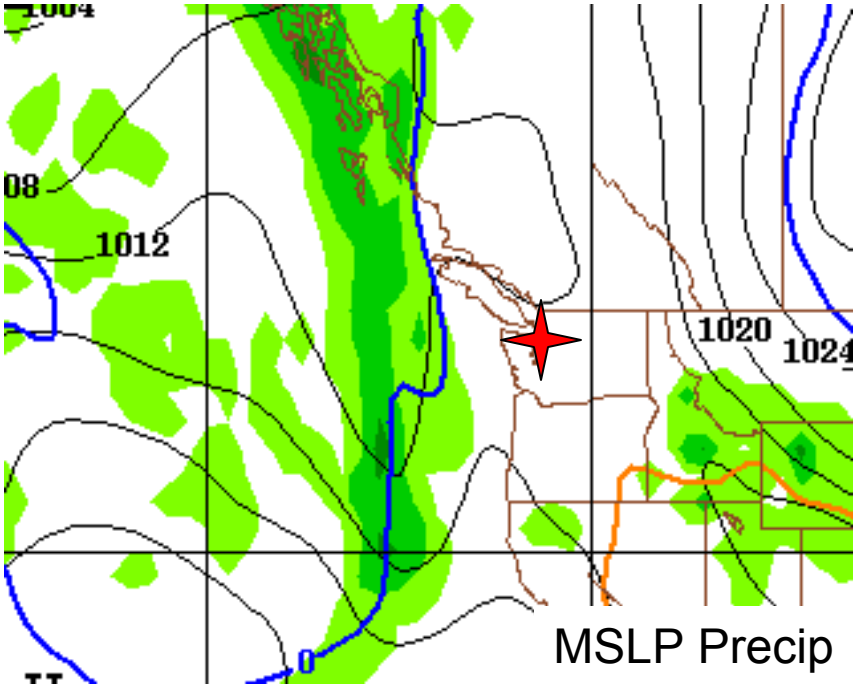
Monday, 18 z



500 mb Vorticity



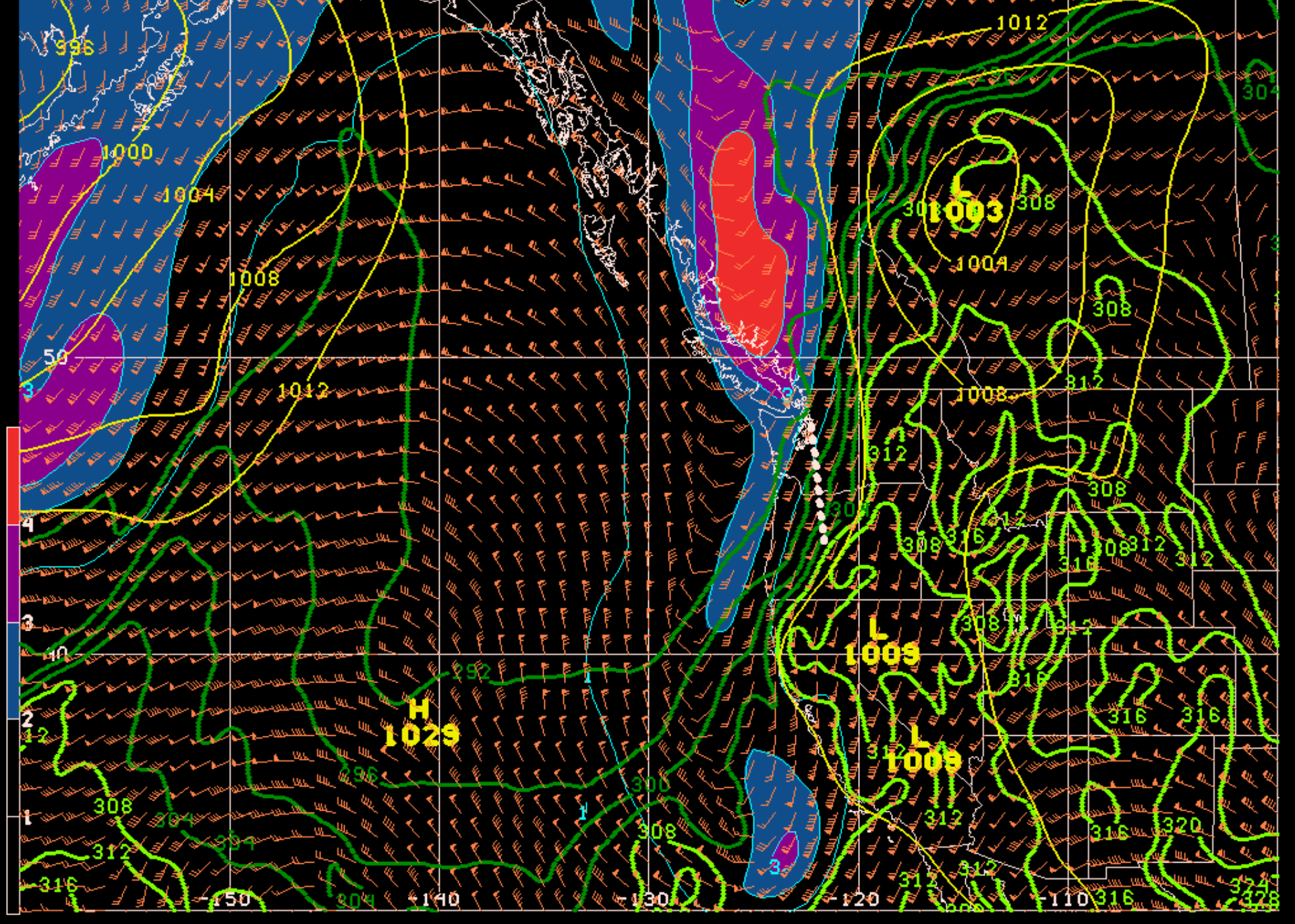
700 mb RH

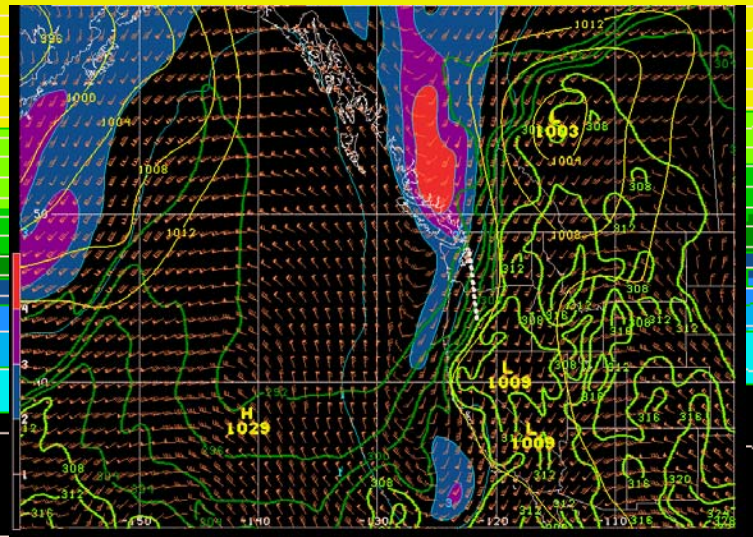


MSLP Precip

Local Weather

Today	Tonight	Thursday	Thursday Night	Friday	Friday Night	Saturday	Saturday Night	Sunday
Partly Cloudy	Mostly Cloudy	Mostly Cloudy	Likely Rain Showers	Likely Rain Showers	Partly Cloudy	Partly Cloudy	Partly Cloudy	Partly Cloudy
Hi 63°F PoP 10%	Lo 45°F PoP 10%	Hi 61°F PoP 20%	Lo 46°F PoP 70%	Hi 54°F PoP 60%	Lo 40°F PoP 20%	Hi 61°F PoP 10%	Lo 42°F PoP 10%	Hi 62°F PoP 10%


060421/1800V054 500-250mb PV, 300mb WIND (KTS), PMSL, BL THTAE



100 150 200 250 300 400 500 700 850 925 1000

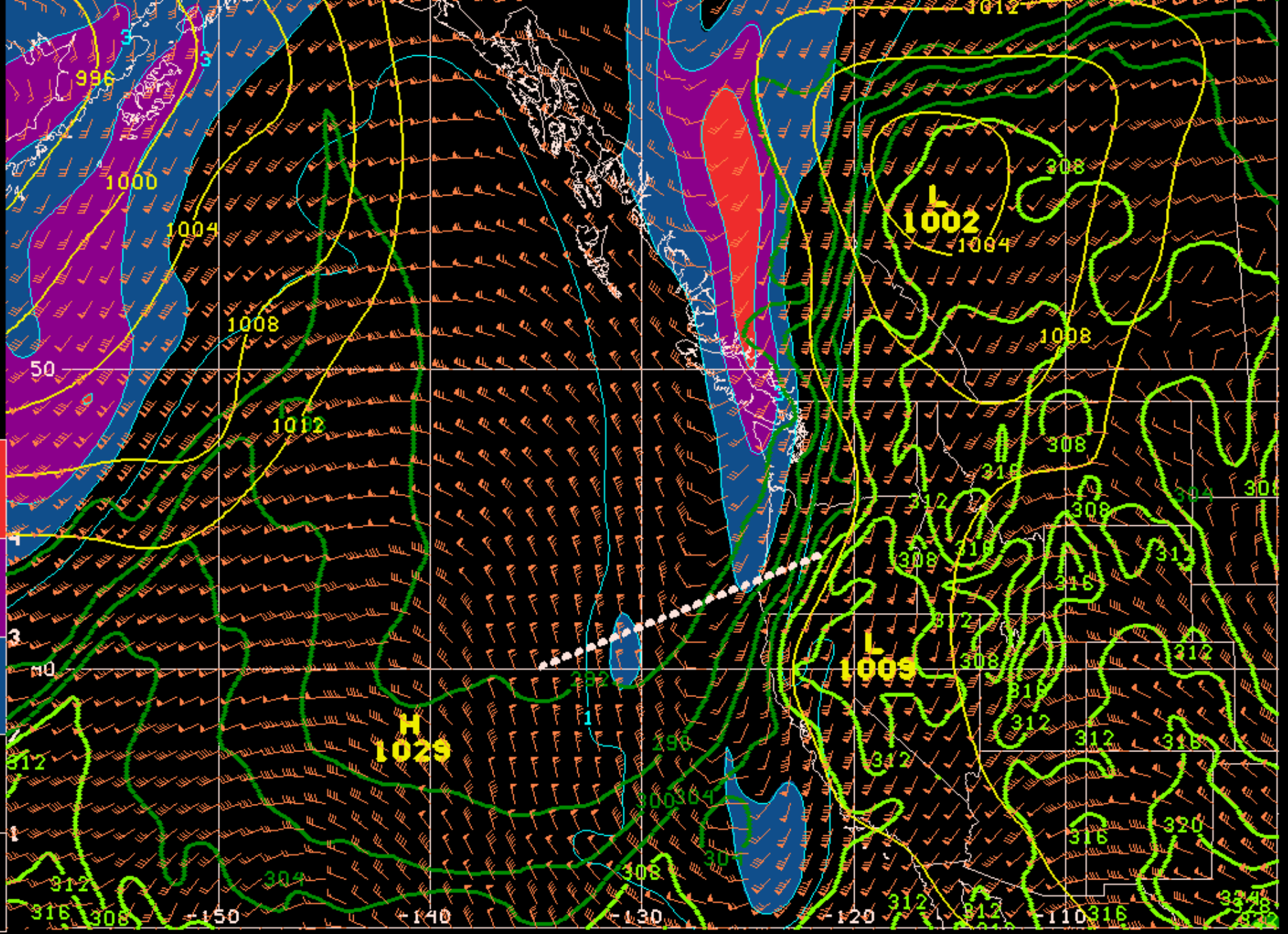
1300 1200 1100 1000 900 800 500

412 408 404 400 396 392 388 384 376 368 360 352 344 336 328 324 320 316 312 308 304 300 296 292

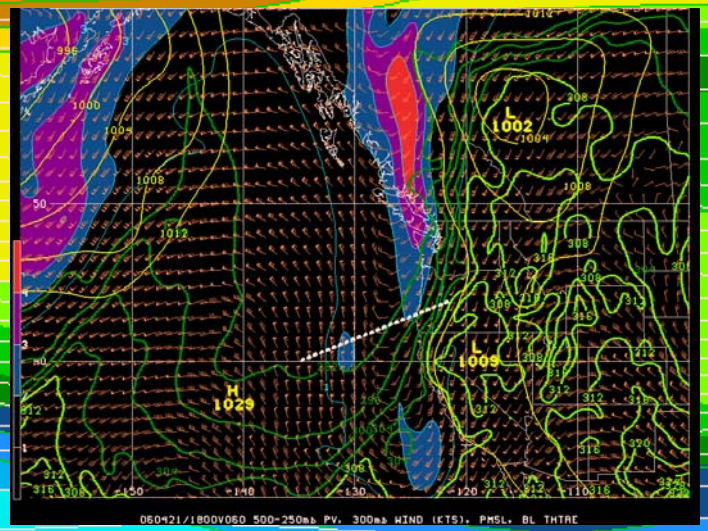
47.9:-122.28

43.98:-121.59

Potential Vorticity / Wind Speed / Theta Plot 060421/1800V054



060421/1800V060 500-250mb PV, 300mb WIND (KTS), PMSL, BL THTAE



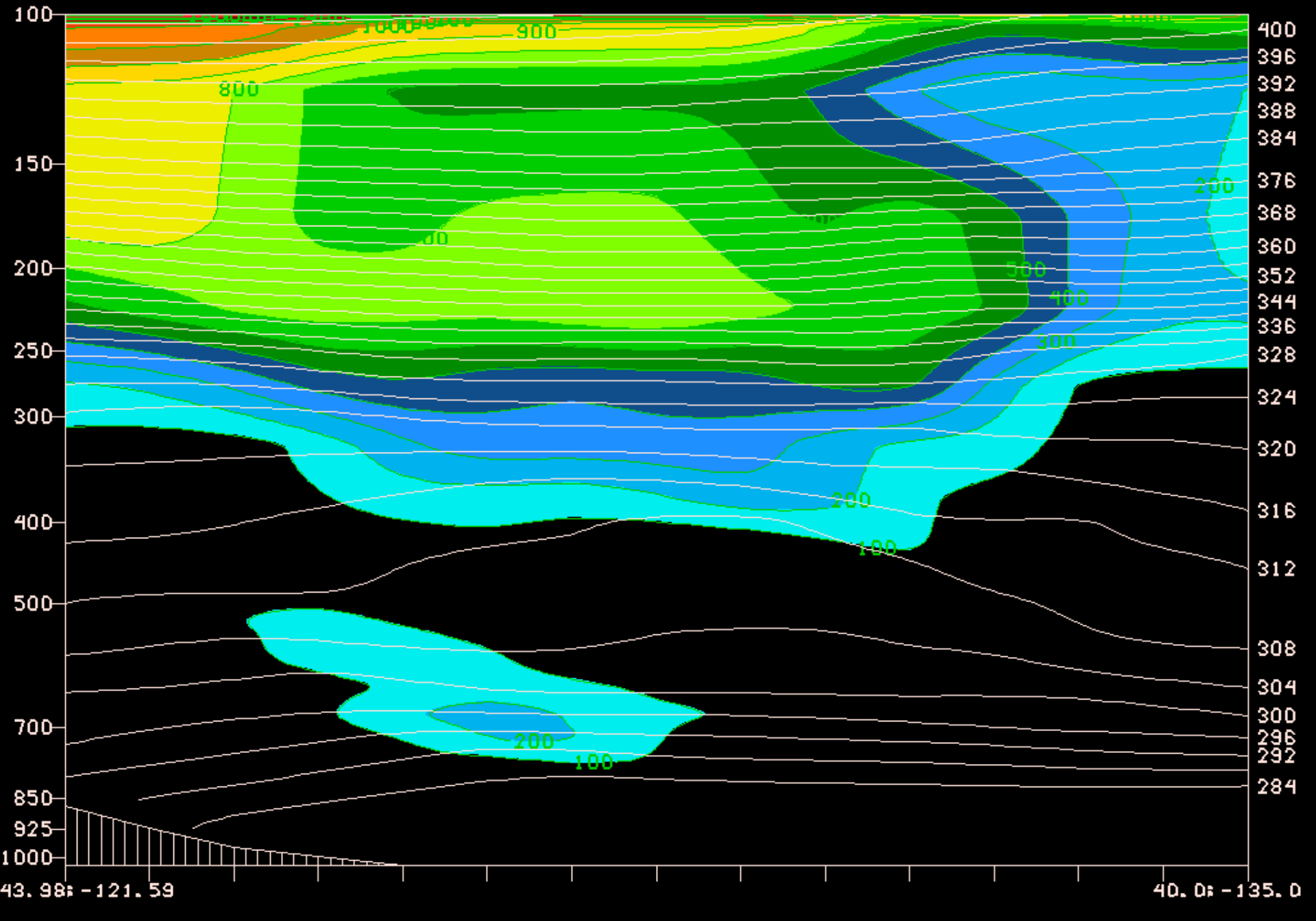
100
150
200
250
300
400
500
700
850
925
1000

400
396
392
388
384
376
368
360
352
344
336
328
324
320
316
312
308
304
300
296
292
284

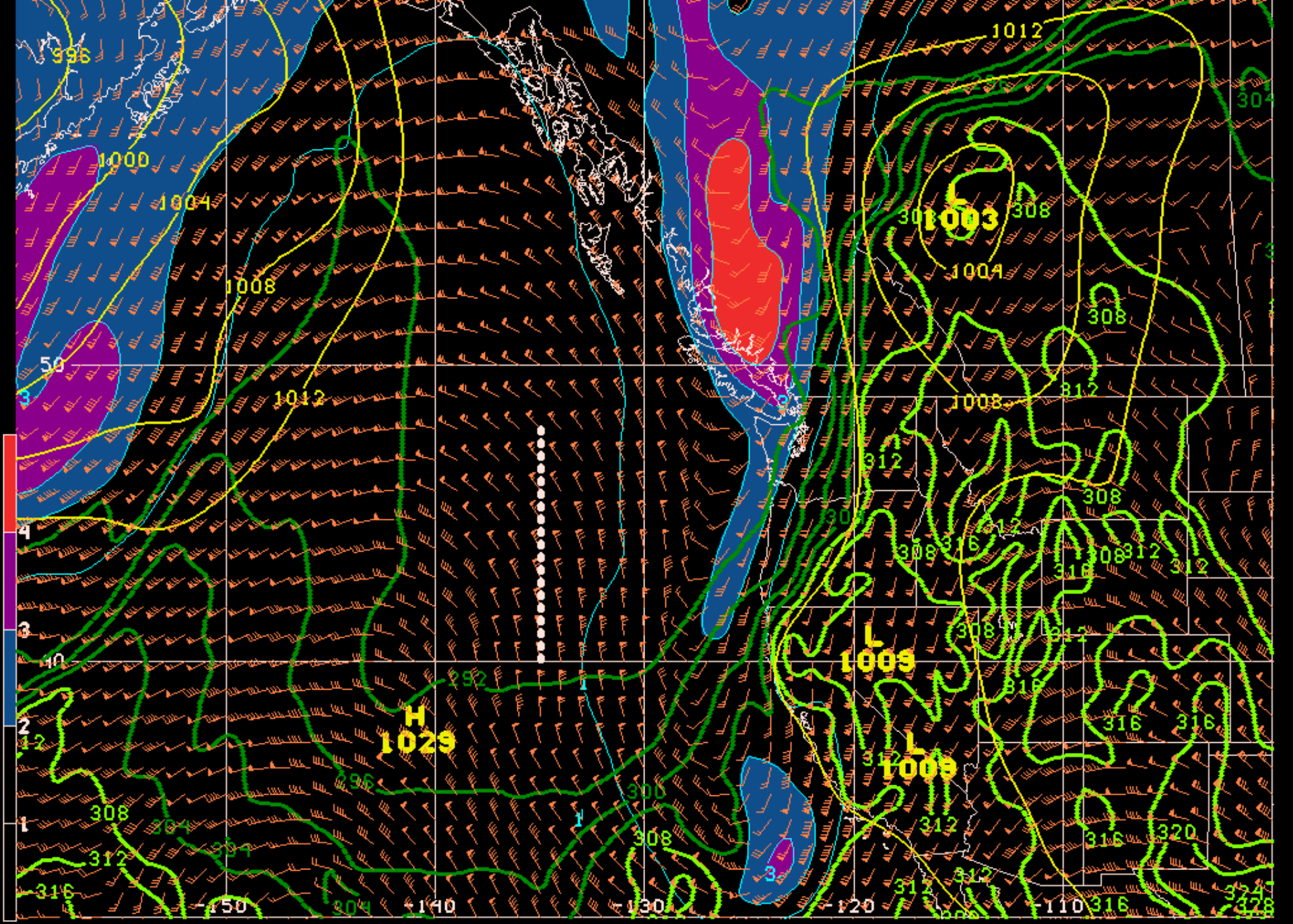
900
200
500
400
300
200
100
200
100

43.9B: -121.59
40.0: -135.0

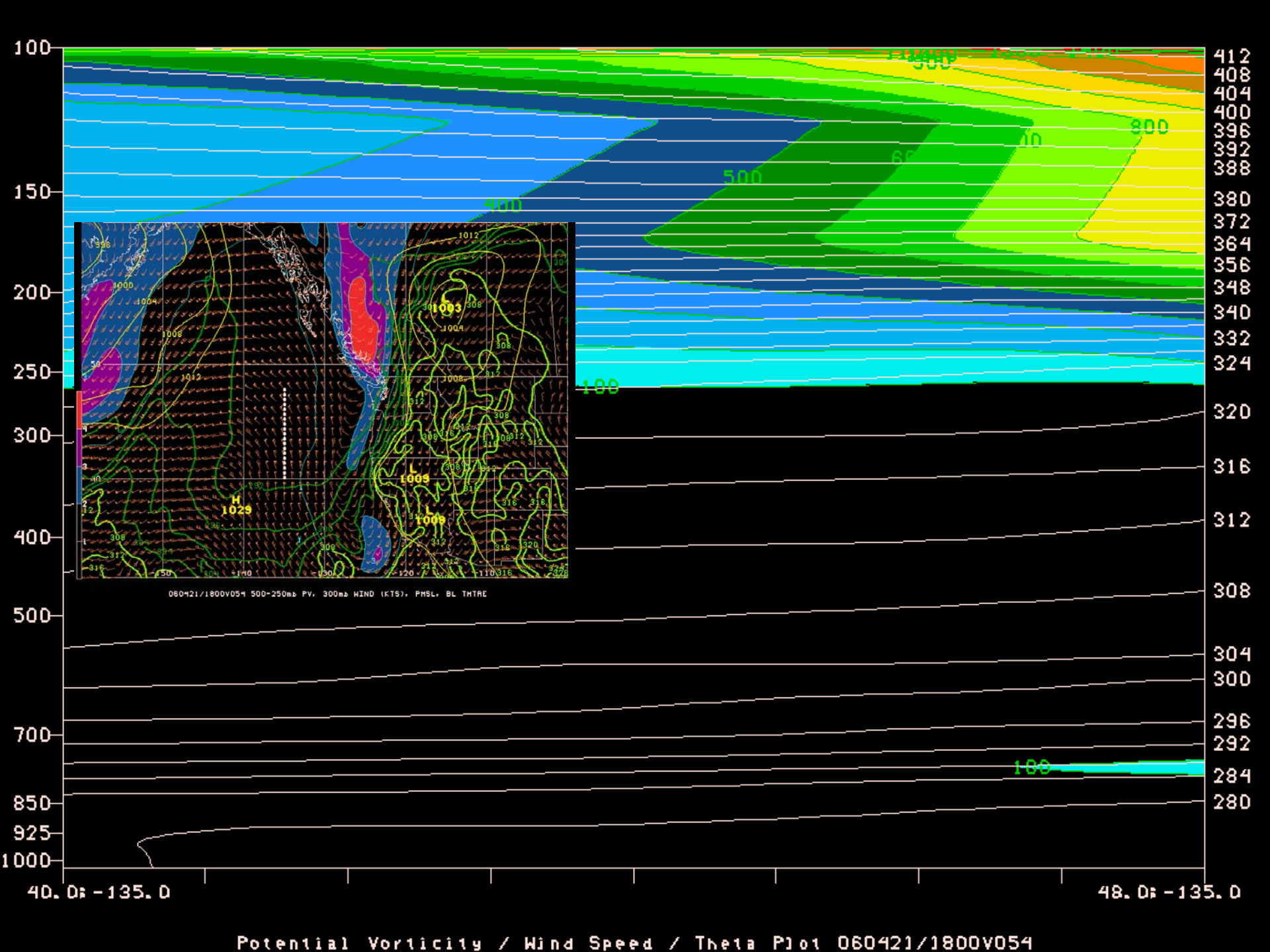
Potential Vorticity / Wind Speed / Theta Plot 060421/1800V060



Potential Vorticity / Wind Speed / Theta Plot 060421/1800V060



060421/1800V054 500-250mb PV, 300mb WIND (KTS), PMSL, BL THTAE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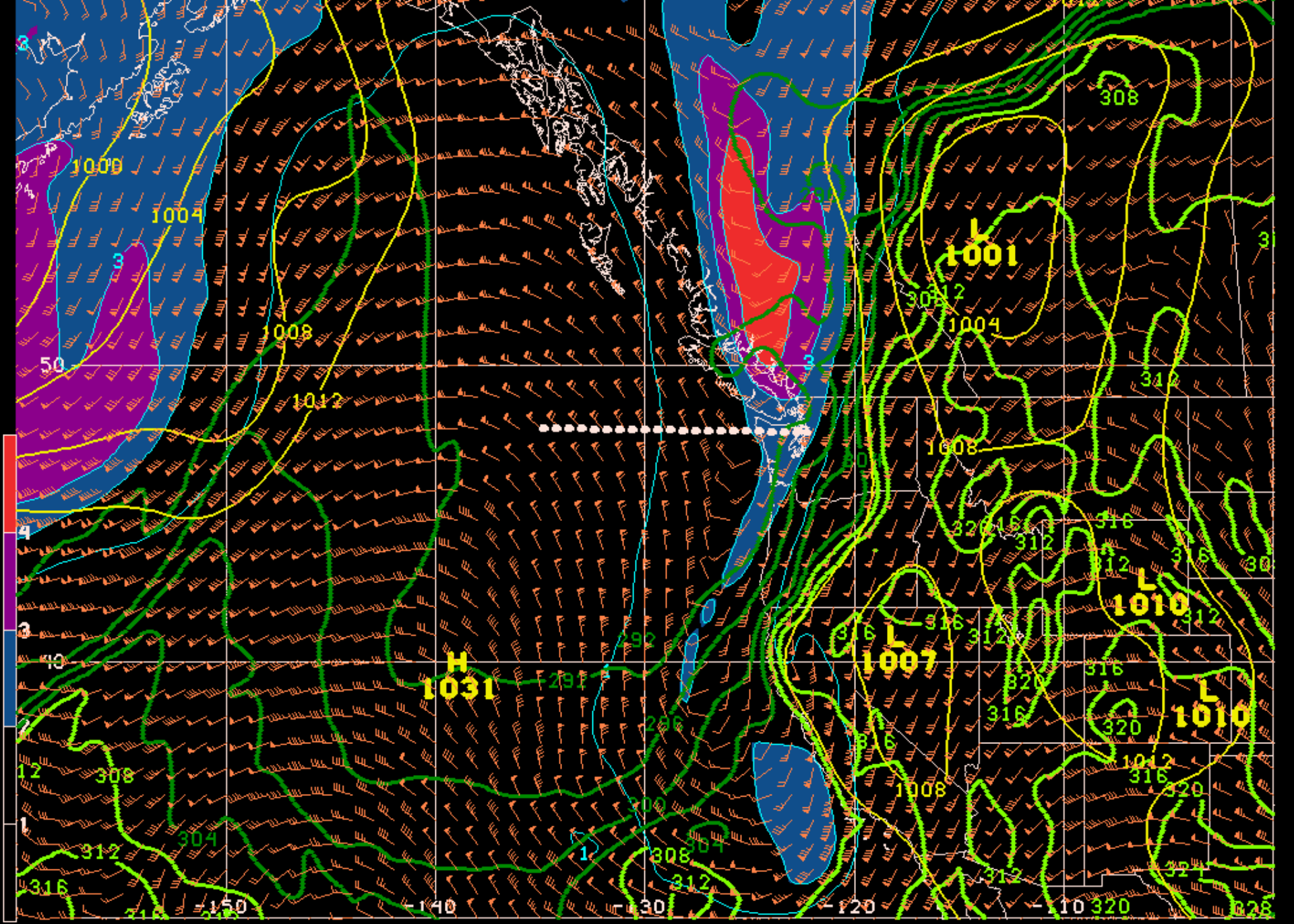
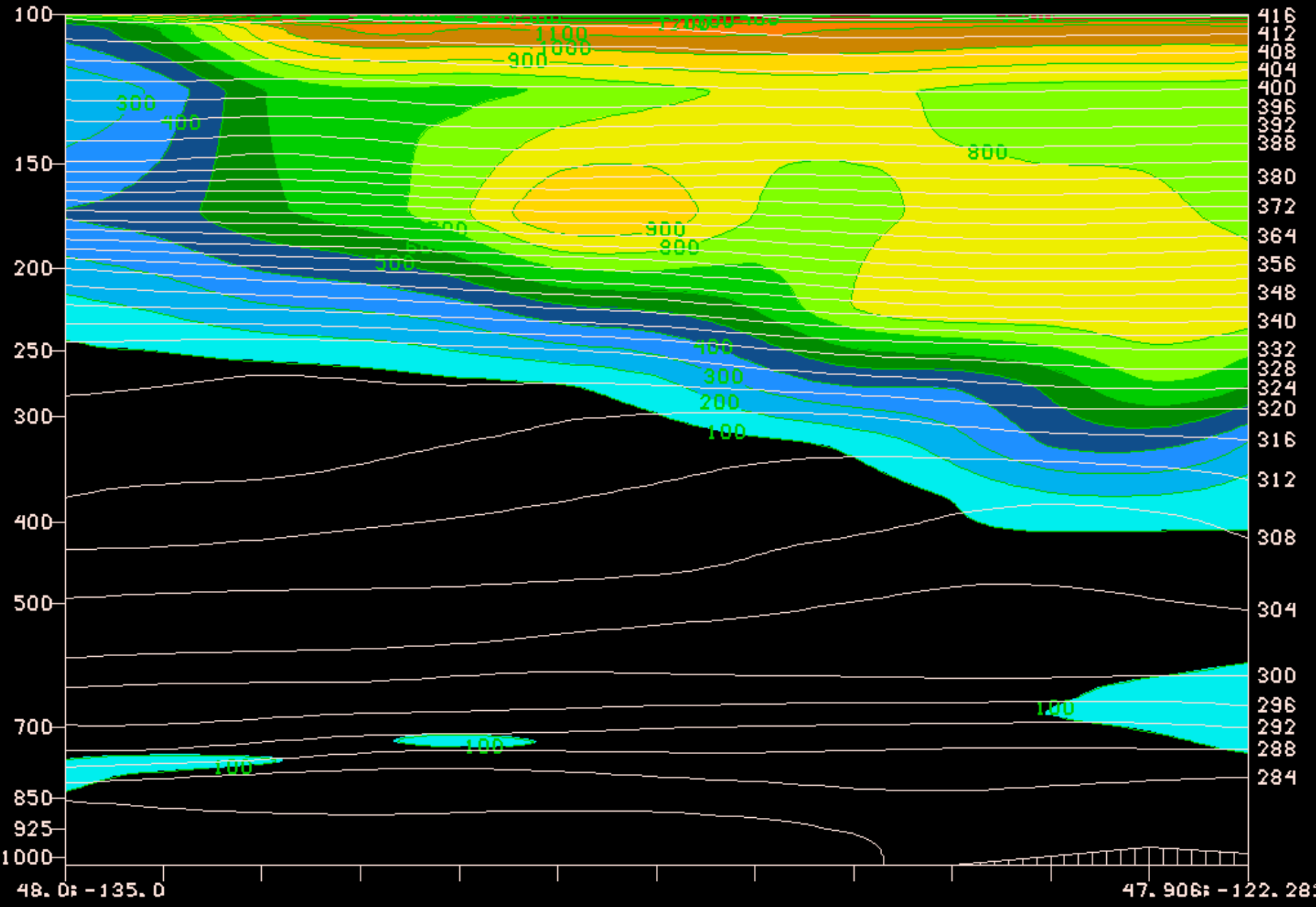
060421/1800V054 500-250mb PV, 300mb WIND (KTS), PMSL, BL THTAE
40.0: -135.0
48.0: -135.0
Potential Vorticity / Wind Speed / Theta Plot 060421/1800V054



060421/2100V057 500-250mb PV, 300mb WIND (KTS), PMSL, BL THTAE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288
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1100
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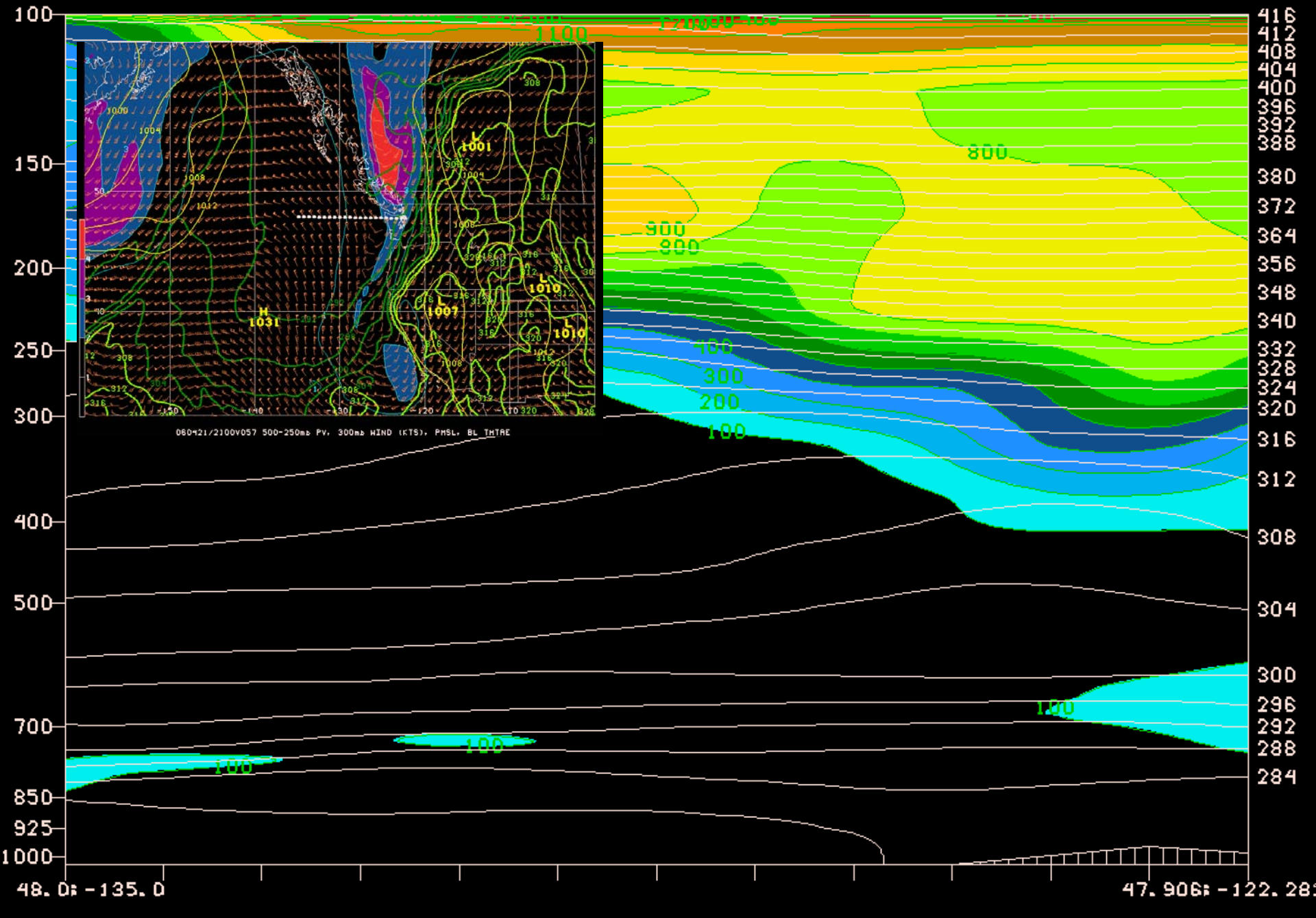
100
48.0: -135.0
47.906: -122.28
Potential Vorticity / Wind Speed / Theta Plot 060422/0000V060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284
1100
800
900
400
300
200
100
L 1001
L 1010
L 1007
H 1031
060421/2100V057 500-250mb PV, 300mb WIND (KTS), PMSL, BL THTAE
48.0: -135.0
47.906: -122.28
Potential Vorticity / Wind Speed / Theta Plot 060422/0000V060