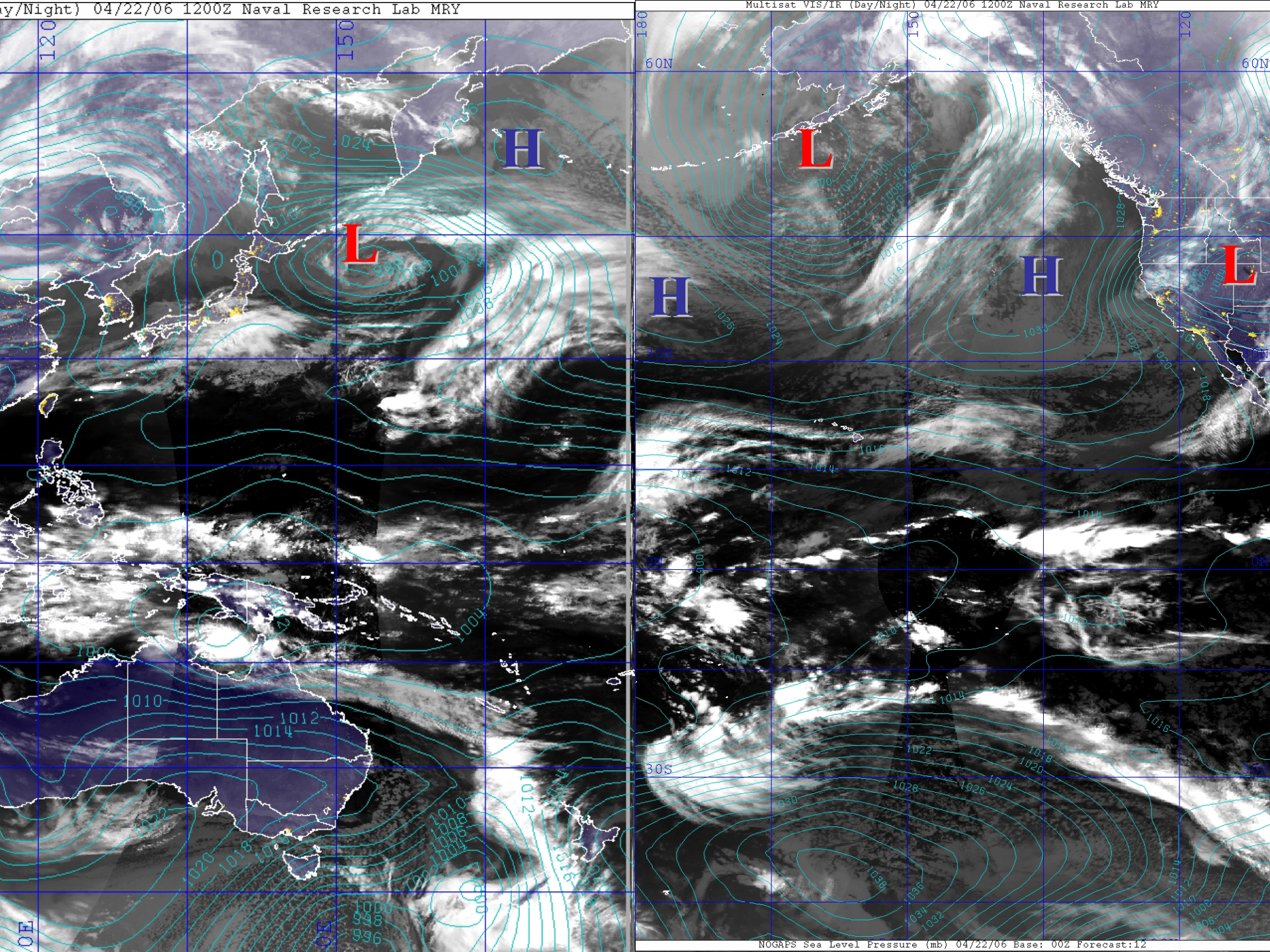
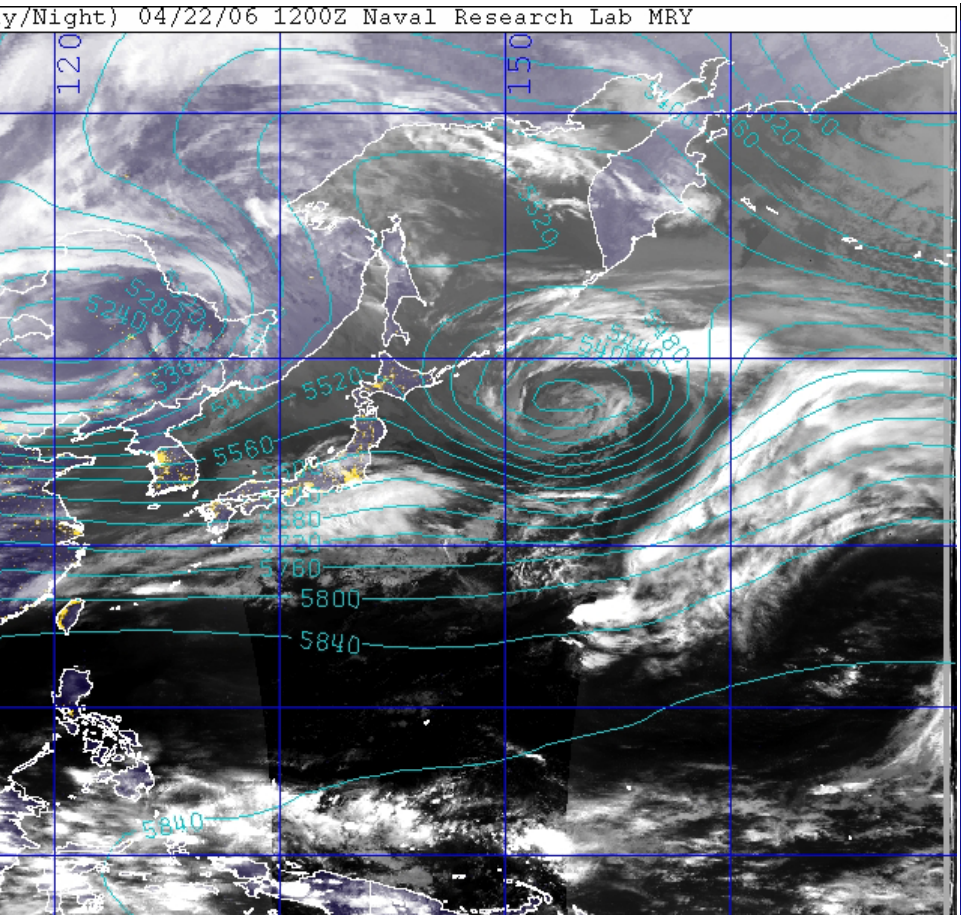
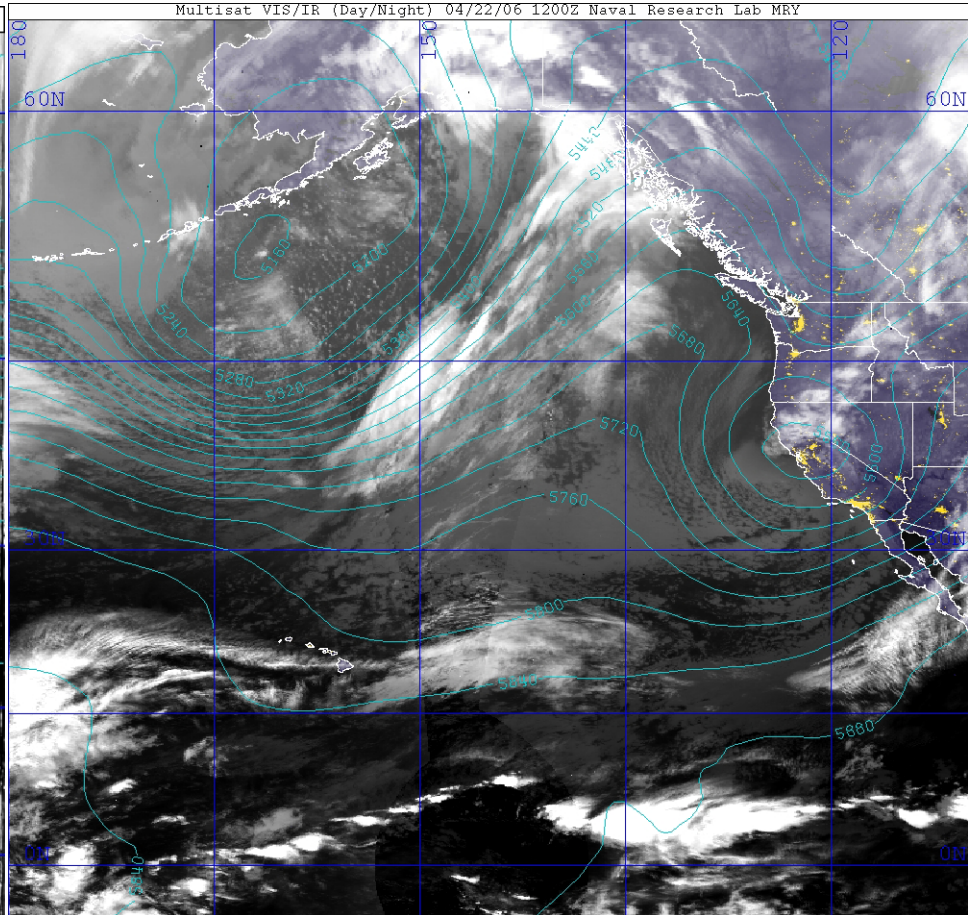
Seattle Weather Brief
Saturday, 0422

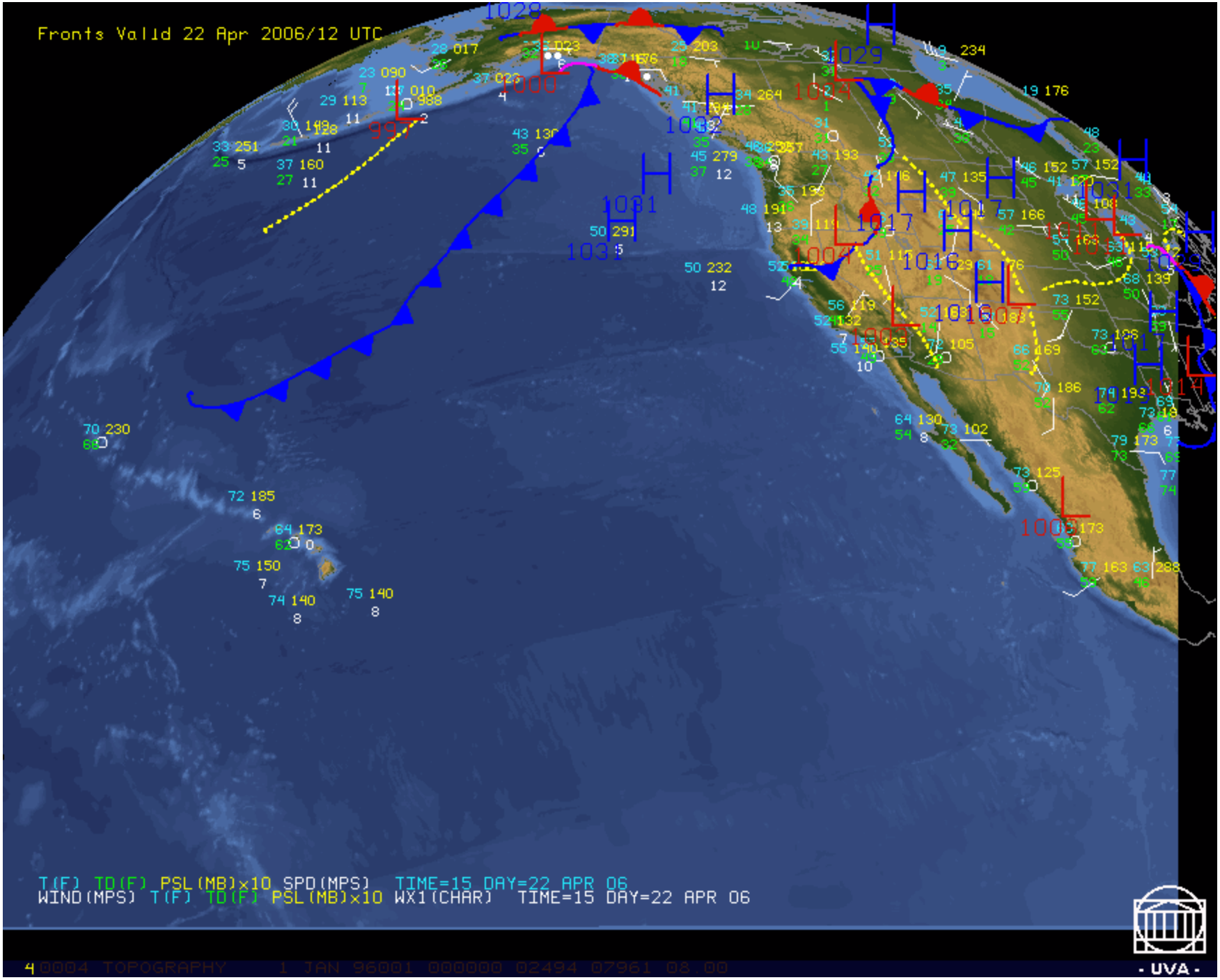
Jennie Moody, UVA
Mike Porter, FSU

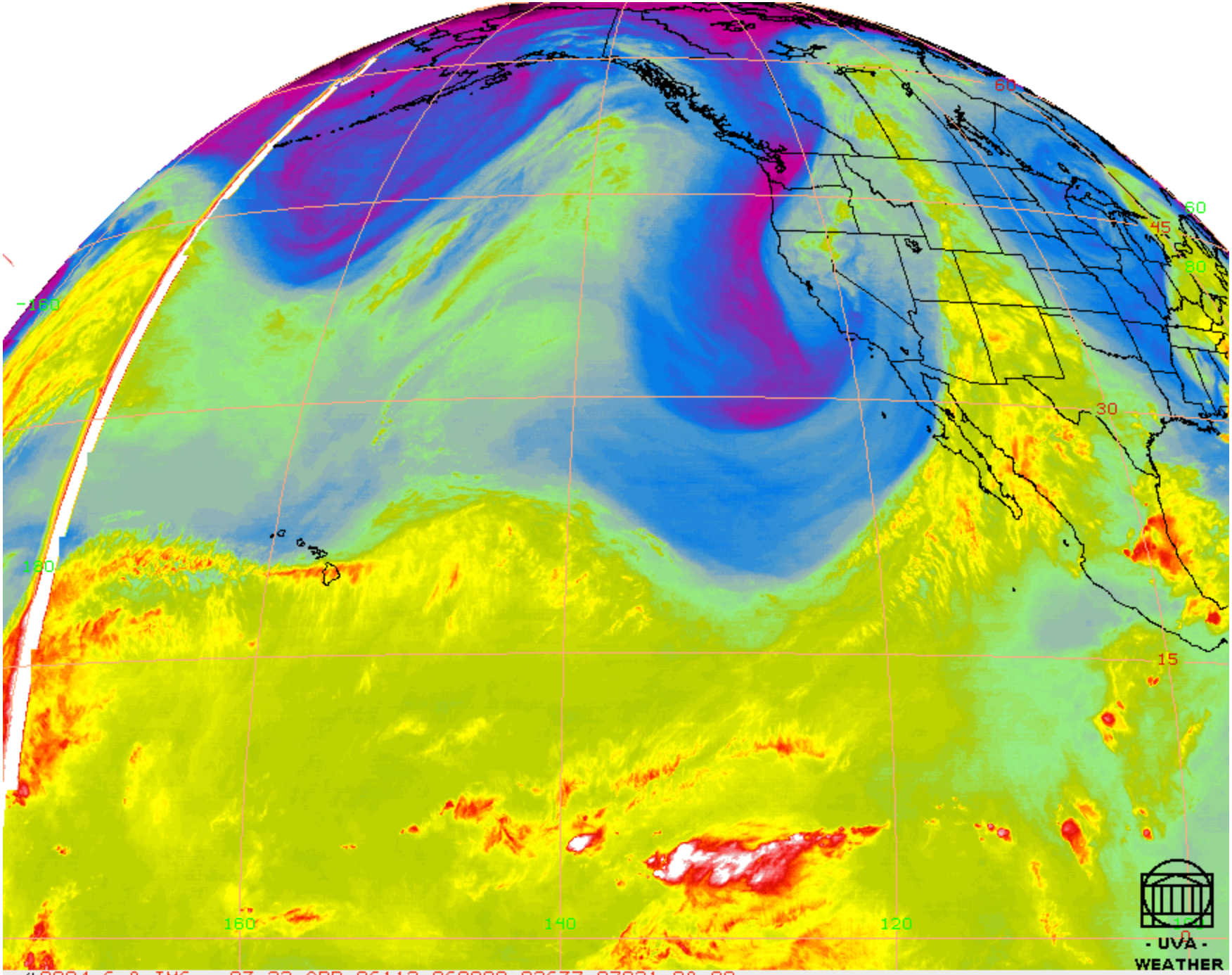
"Your eyes to the skies…
With their feet on the ground"


y/Night) 04/22/06 1200Z Naval Research Lab MRY
Multisat VIS/IR (Day/Night) 04/22/06 1200Z Naval Research Lab MRY
NOGAPS Sea Level Pressure (mb) 04/22/06 Base: 00Z Forecast:12
120
150
180
60N
30S
H
L


y/Night) 04/22/06 1200Z Naval Research Lab MRY
120
150
5280
5240
5520
5560
5580
5760
5800
5840
5840

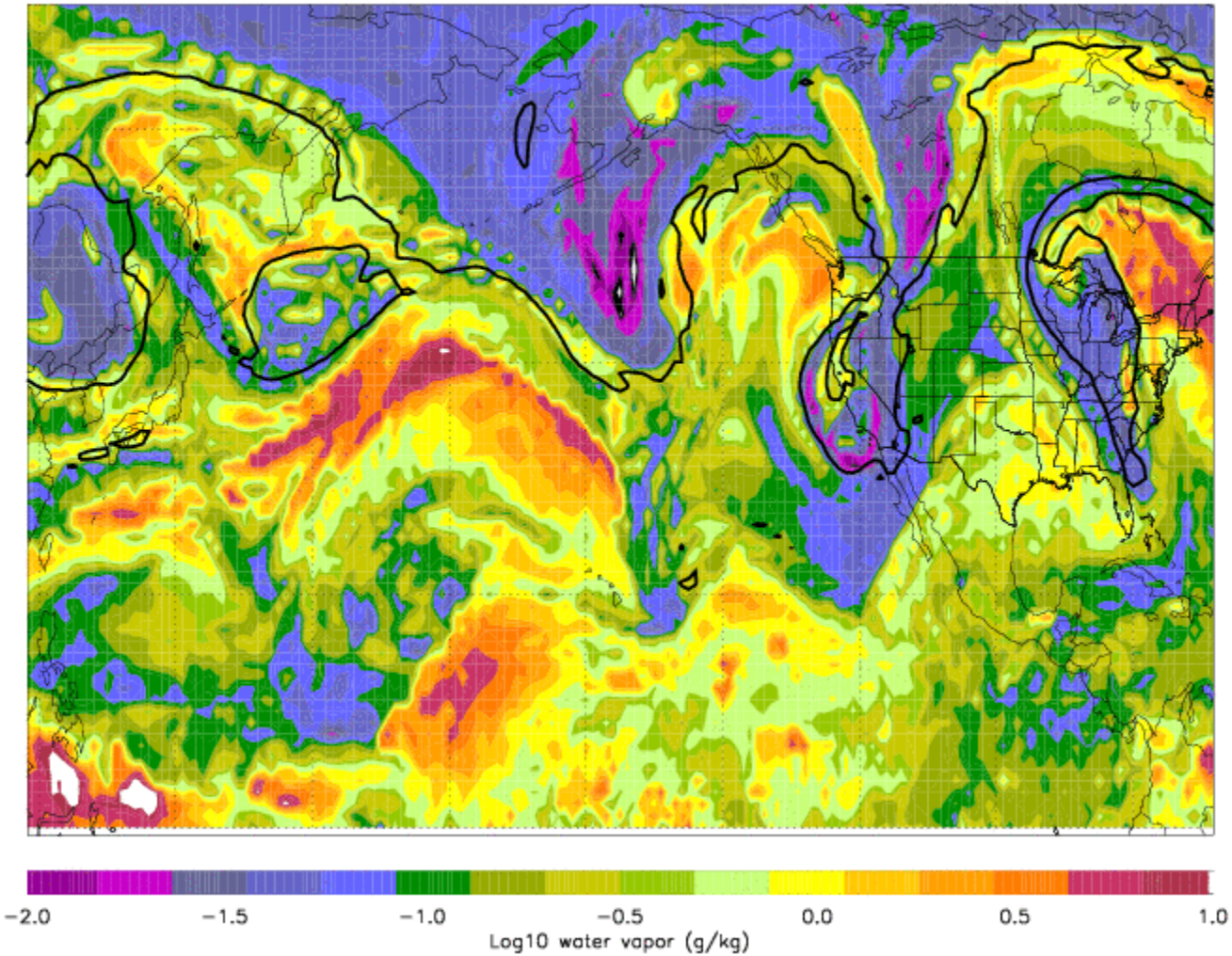

Multisat VIS/IR (Day/Night) 04/22/06 1200Z Naval Research Lab MRY
180
150
120
60N
60N
5160
5240
5280
5320
5720
5760
5800
5840
5880


Fronts Valid 22 Apr 2006/12 UTC
T(F) TD(F) PSL(MB)x10 SPD(MPS) TIME=15 DAY=22 APR 06
WIND(MPS) T(F) TD(F) PSL(MB)x10 WX1(CHAR) TIME=15 DAY=22 APR 06
4 0004 TOPOGRAPHY 1 JAN 96001 000000 02494 07961 08.00
- UVA -

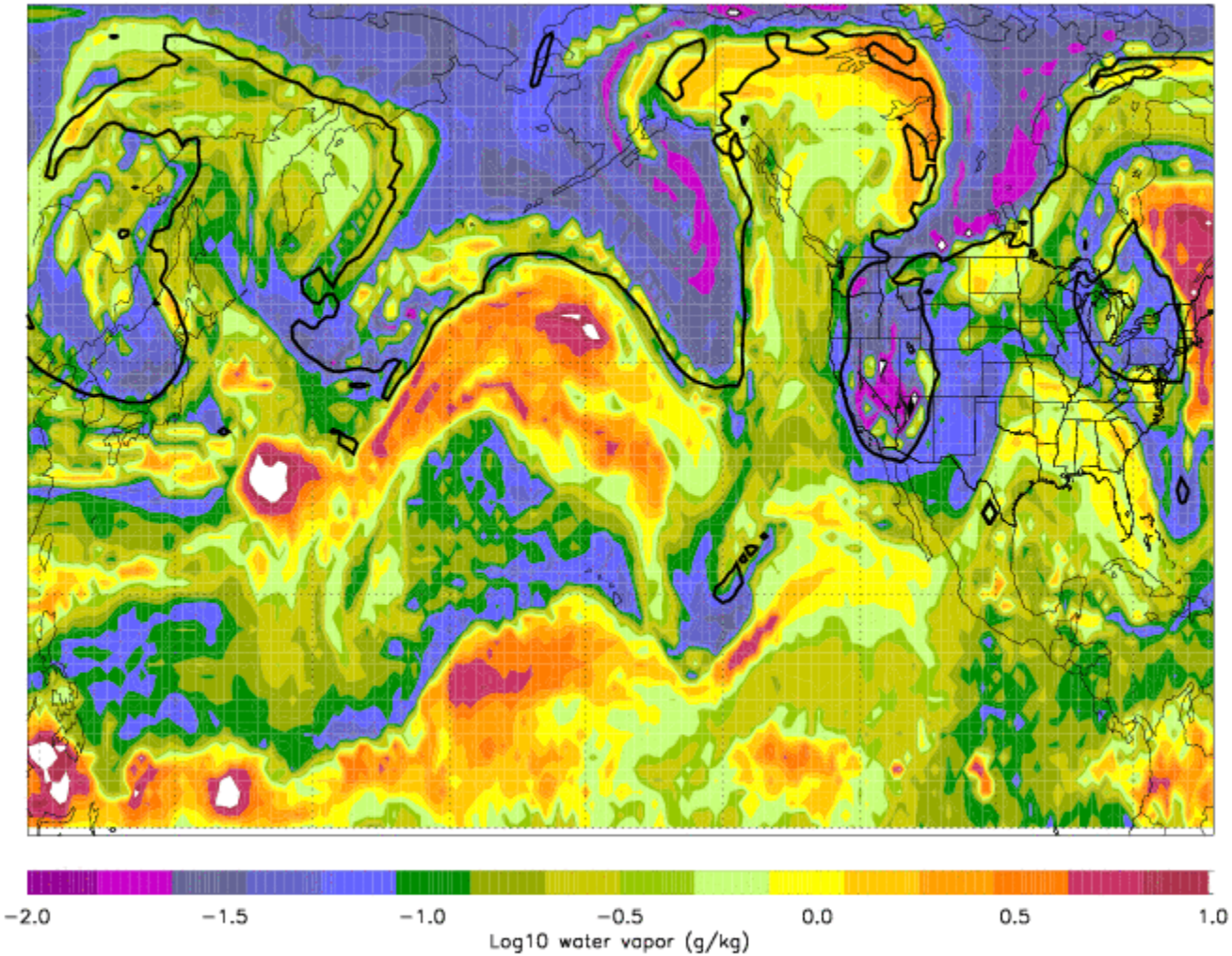


4 0004 G-8 IMG 03 22 APR 06112 060000 02637 07921 08.00

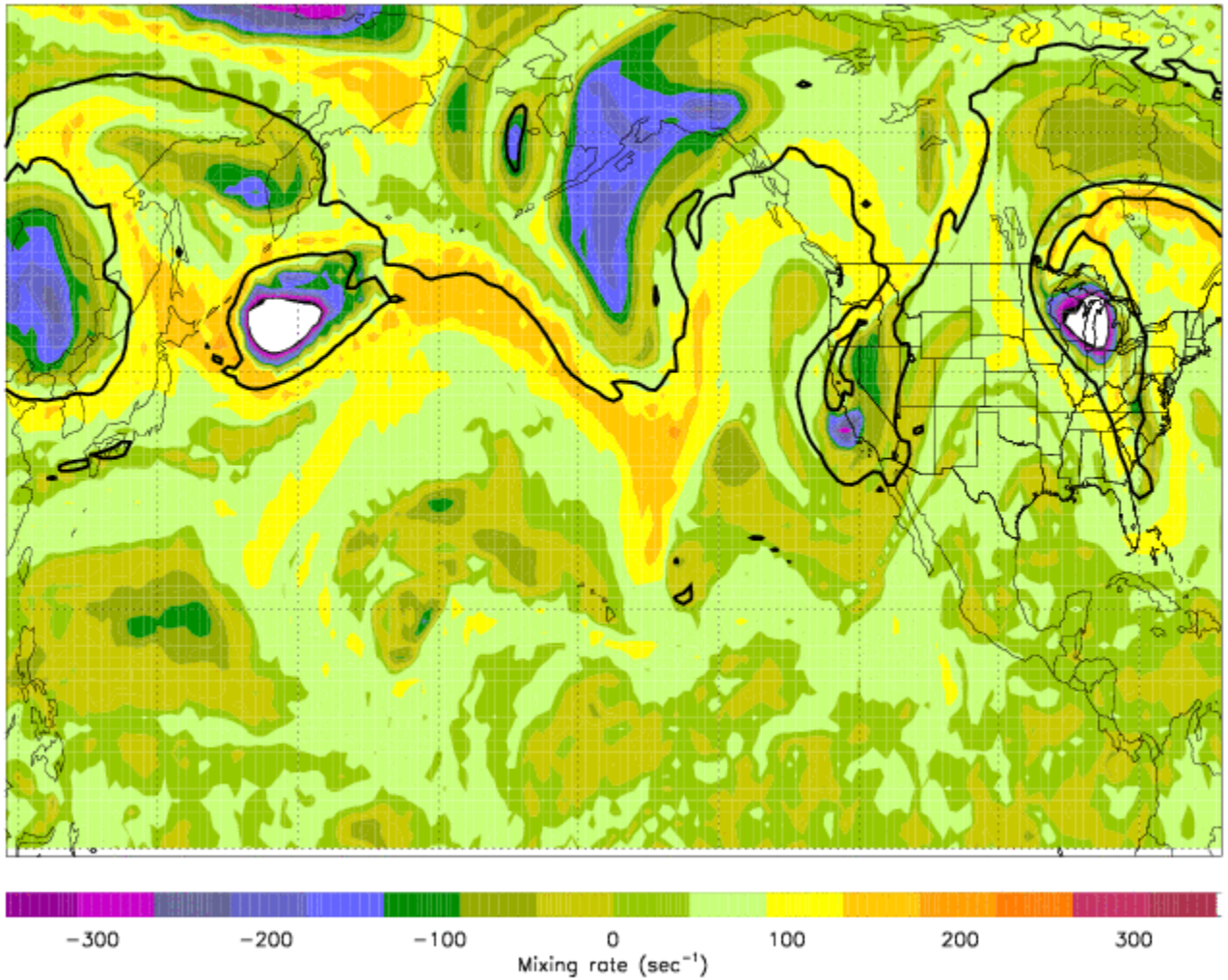
200–400mb Layer averaged –48hr RDF water vapor valid 2006042300
(Layer averaged 2.5 PVU isopleth in Black)



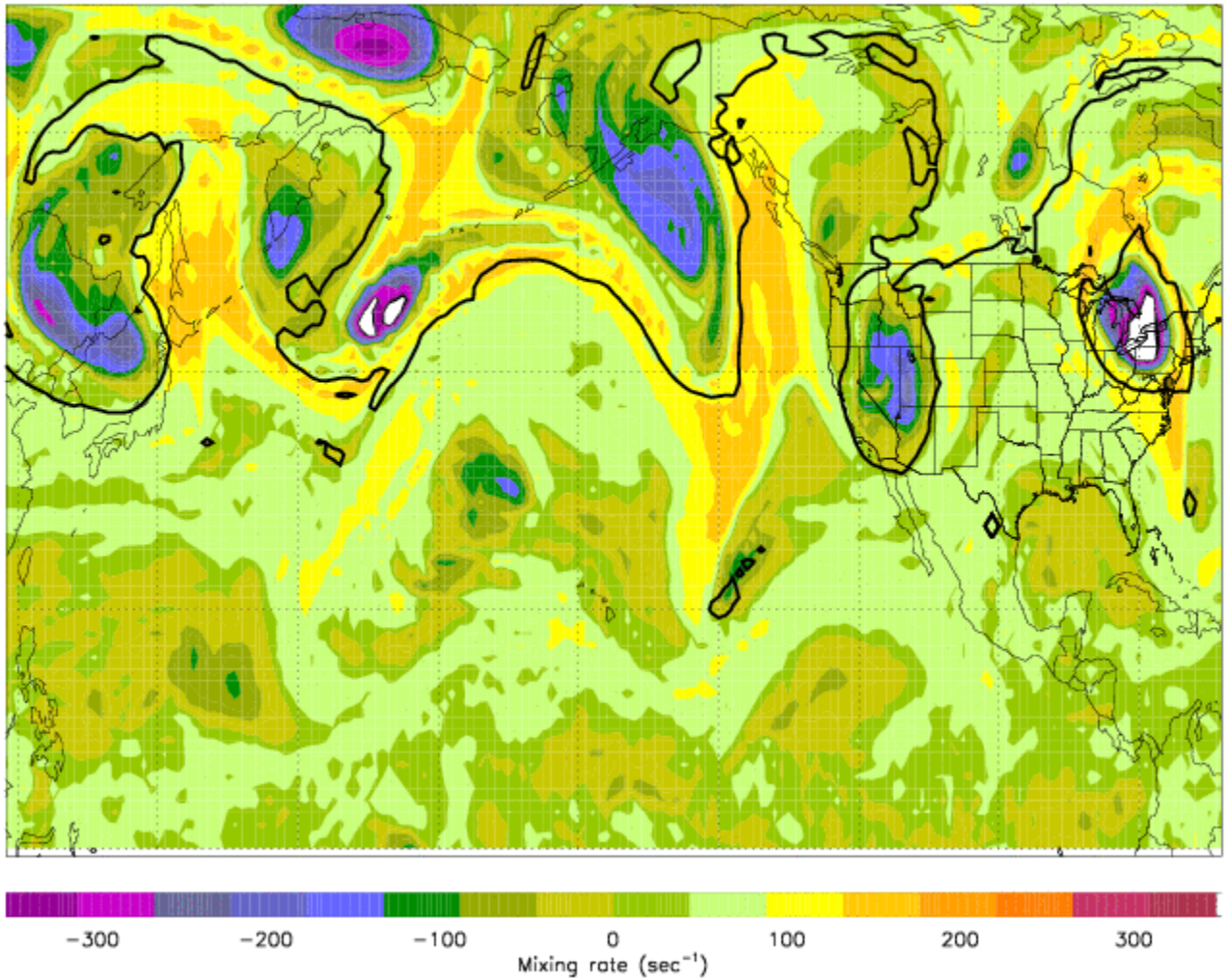
200–400mb Layer averaged –48hr RDF water vapor valid 2006042400
(Layer averaged 2.5 PVU isopleth in Black)



200–400mb Layer averaged/time averaged –48hr RDF Mixing rate valid 2006042300
(Layer averaged 2.5 PVU isopleth in Black)



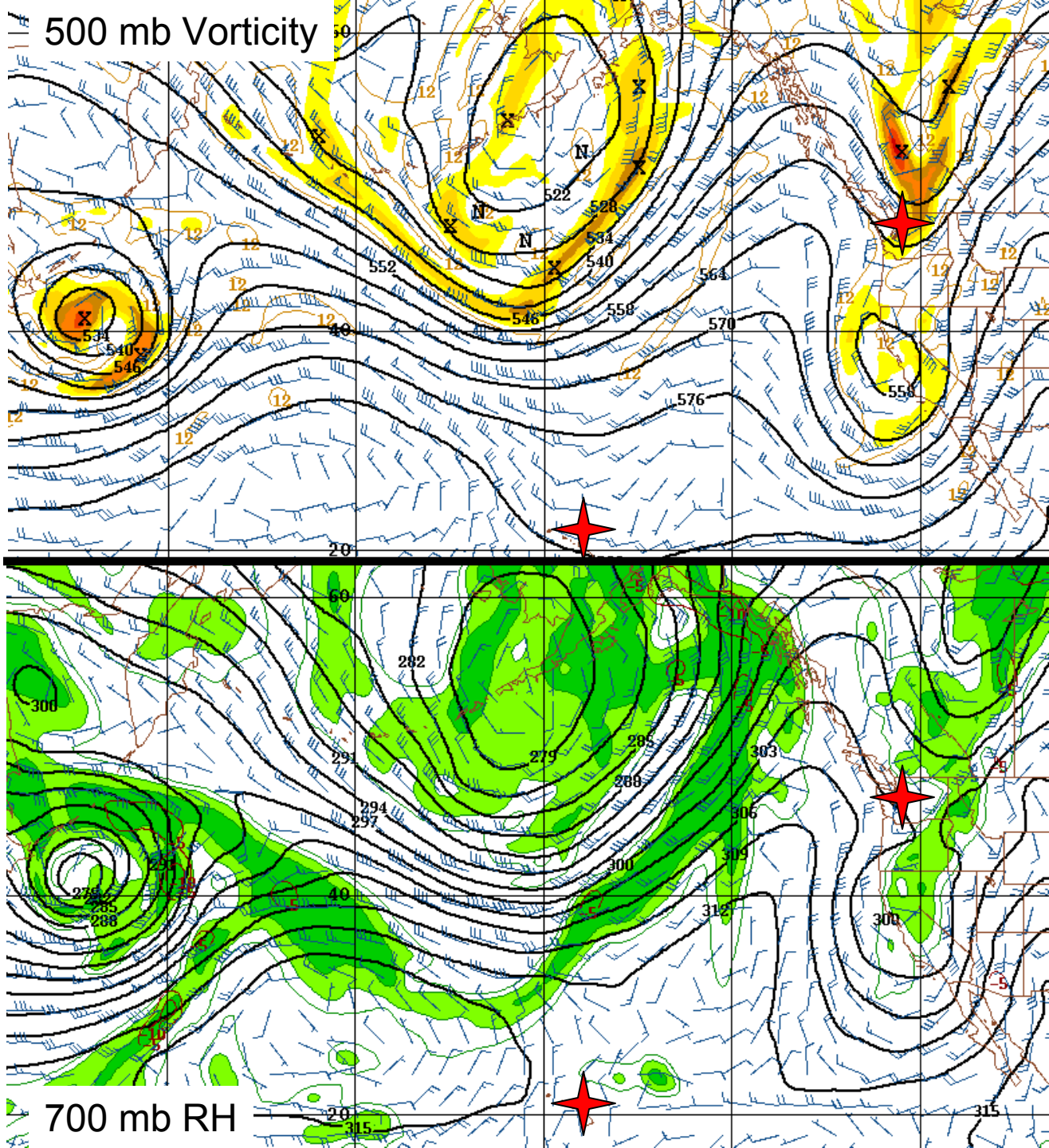
200–400mb Layer averaged/time averaged –48hr RDF Mixing rate valid 2006042400
(Layer averaged 2.5 PVU isopleth in Black)



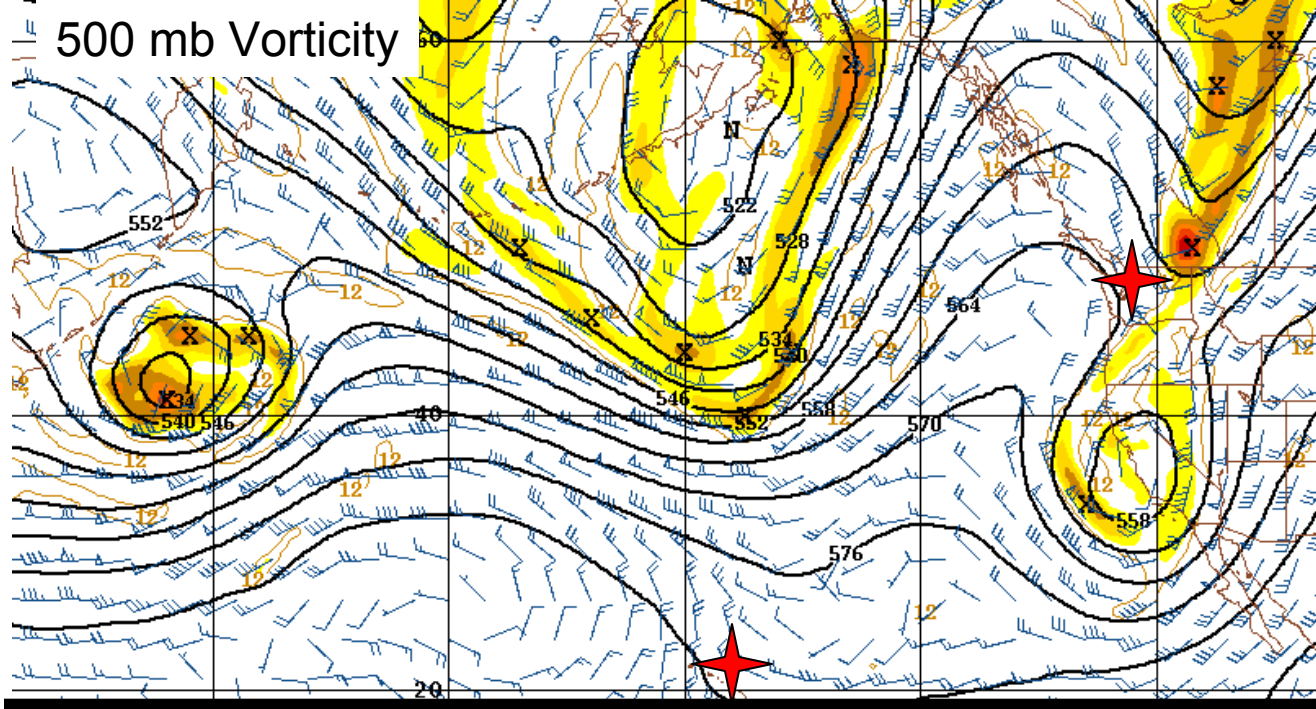
Pacific Flow for the coming Week

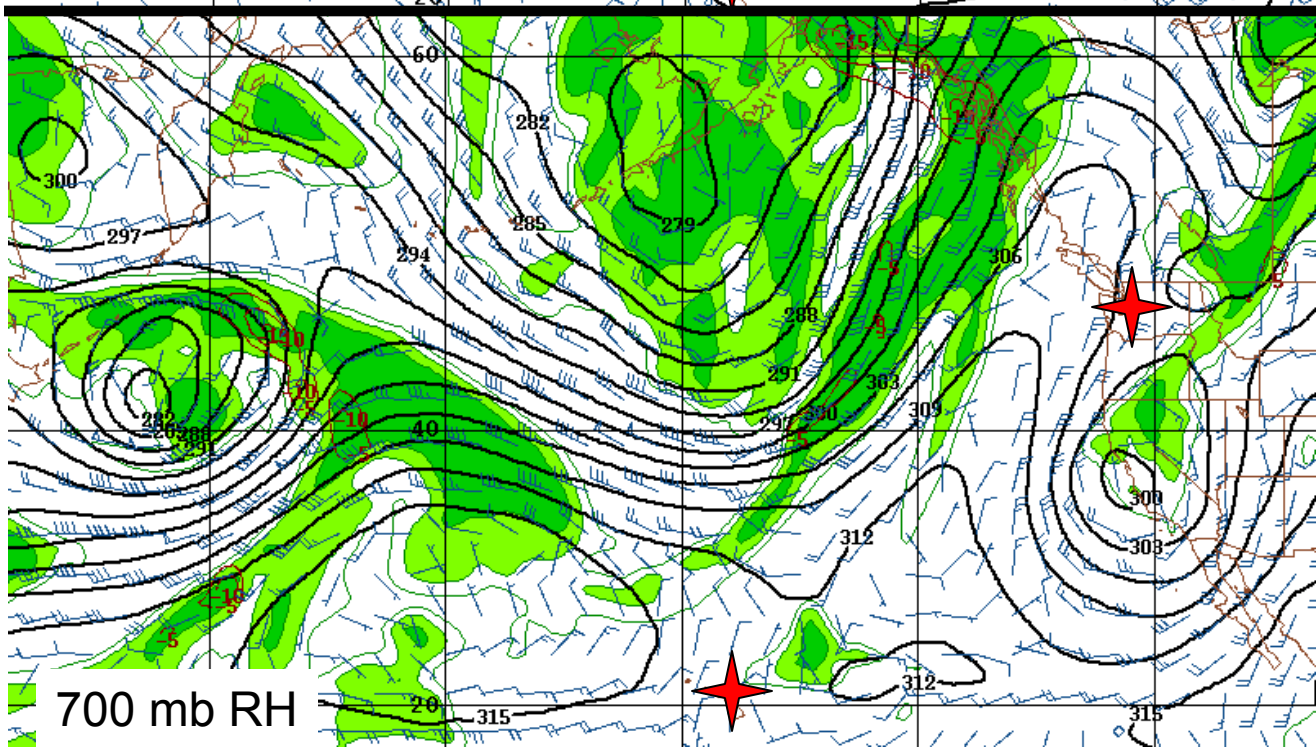
Mid-level Cyclone Strength (500 mb)
And
Mid-level RH (clouds) (700mb)

Sat 0422
6 z

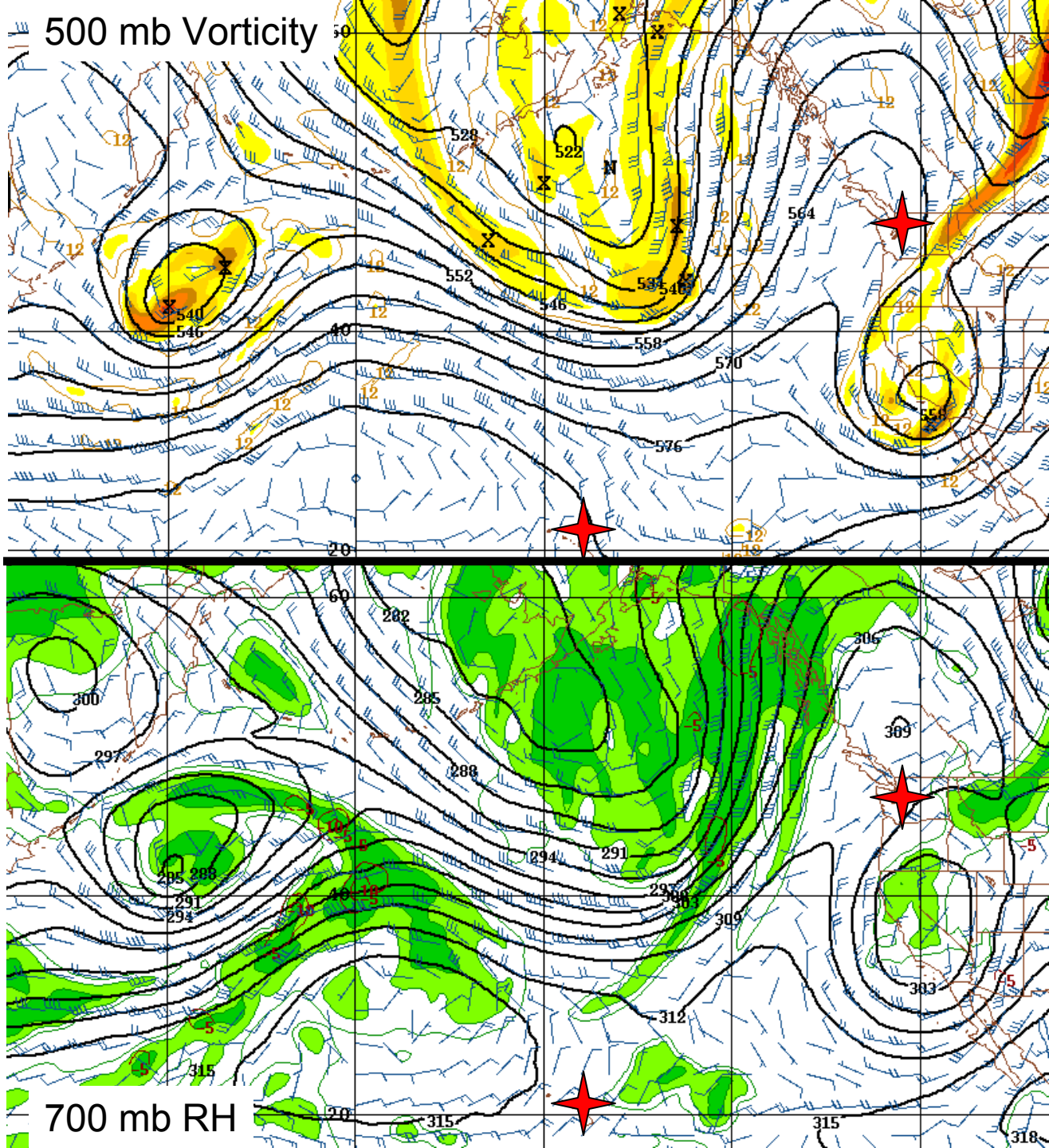


Sat 0422
18 z

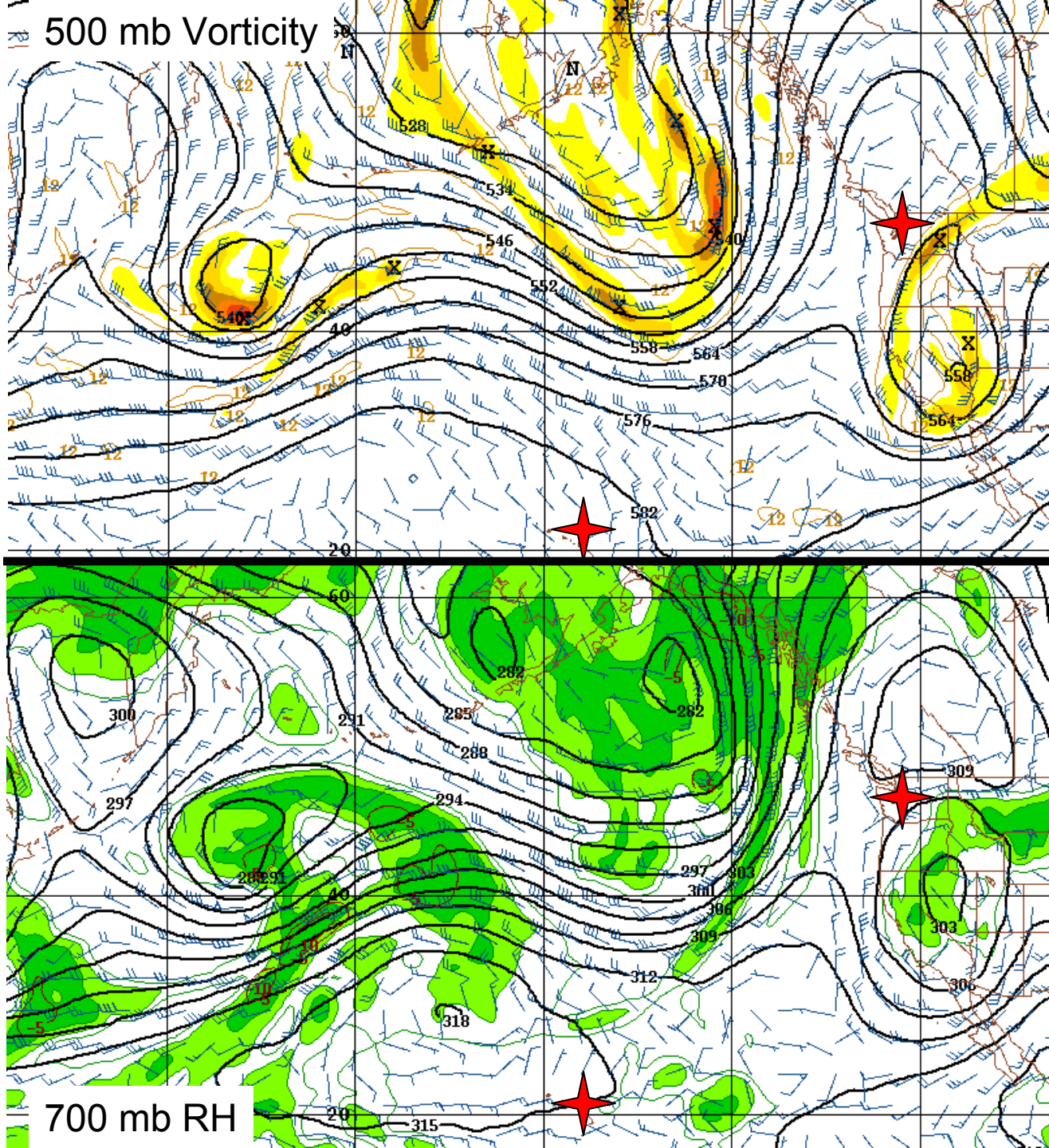




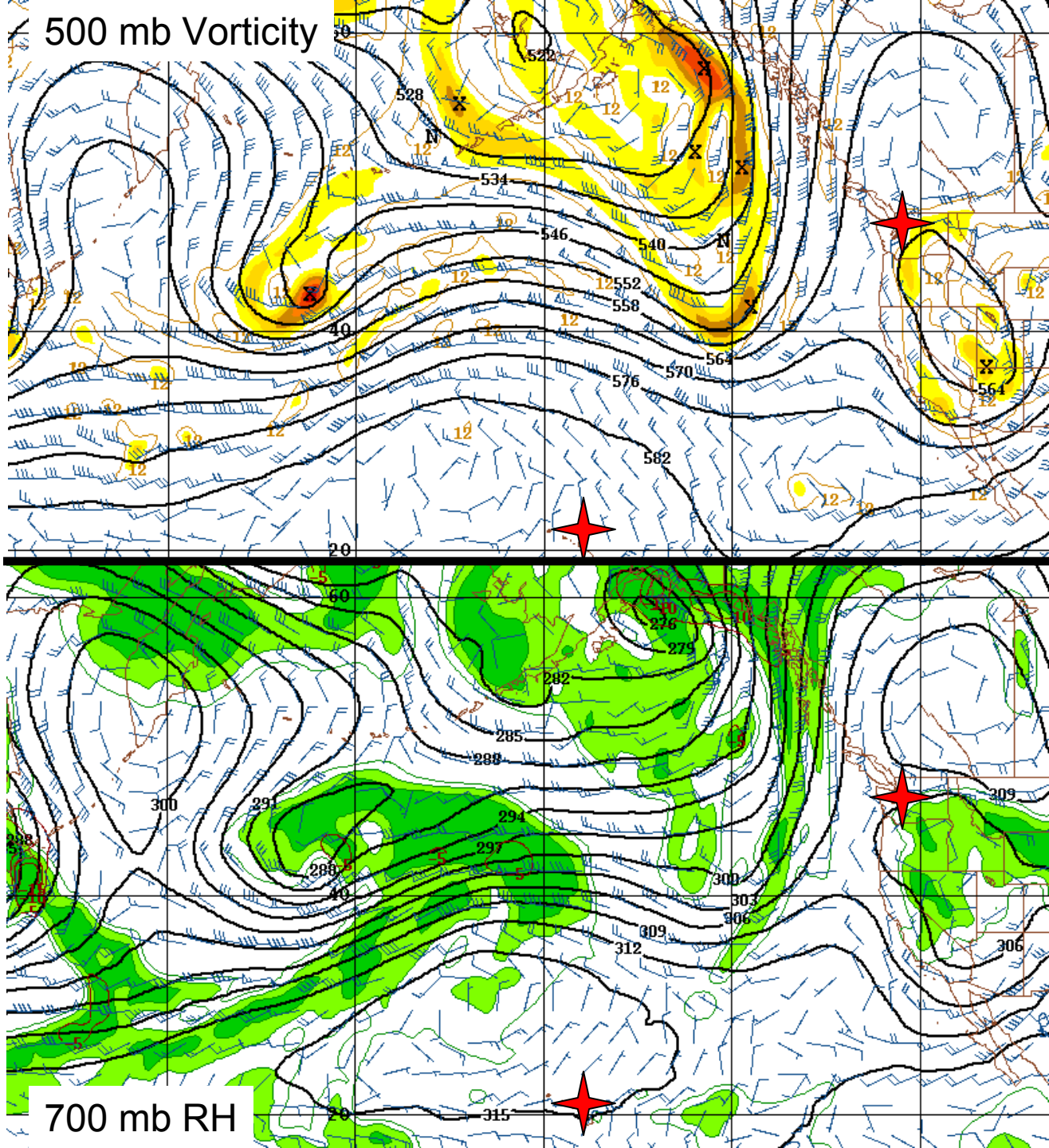
Sun 0423
6 z



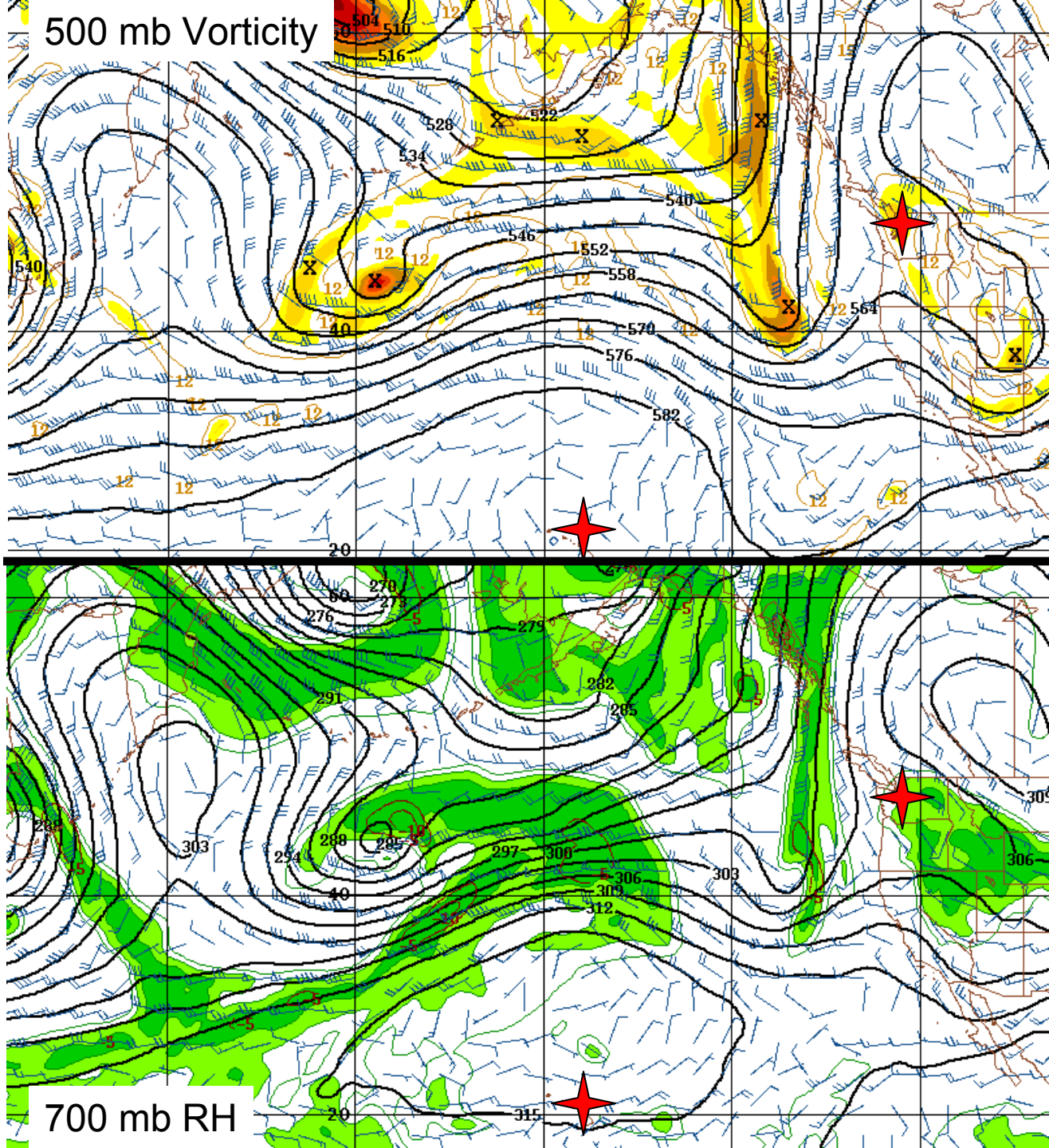
Sun 0423
18 z



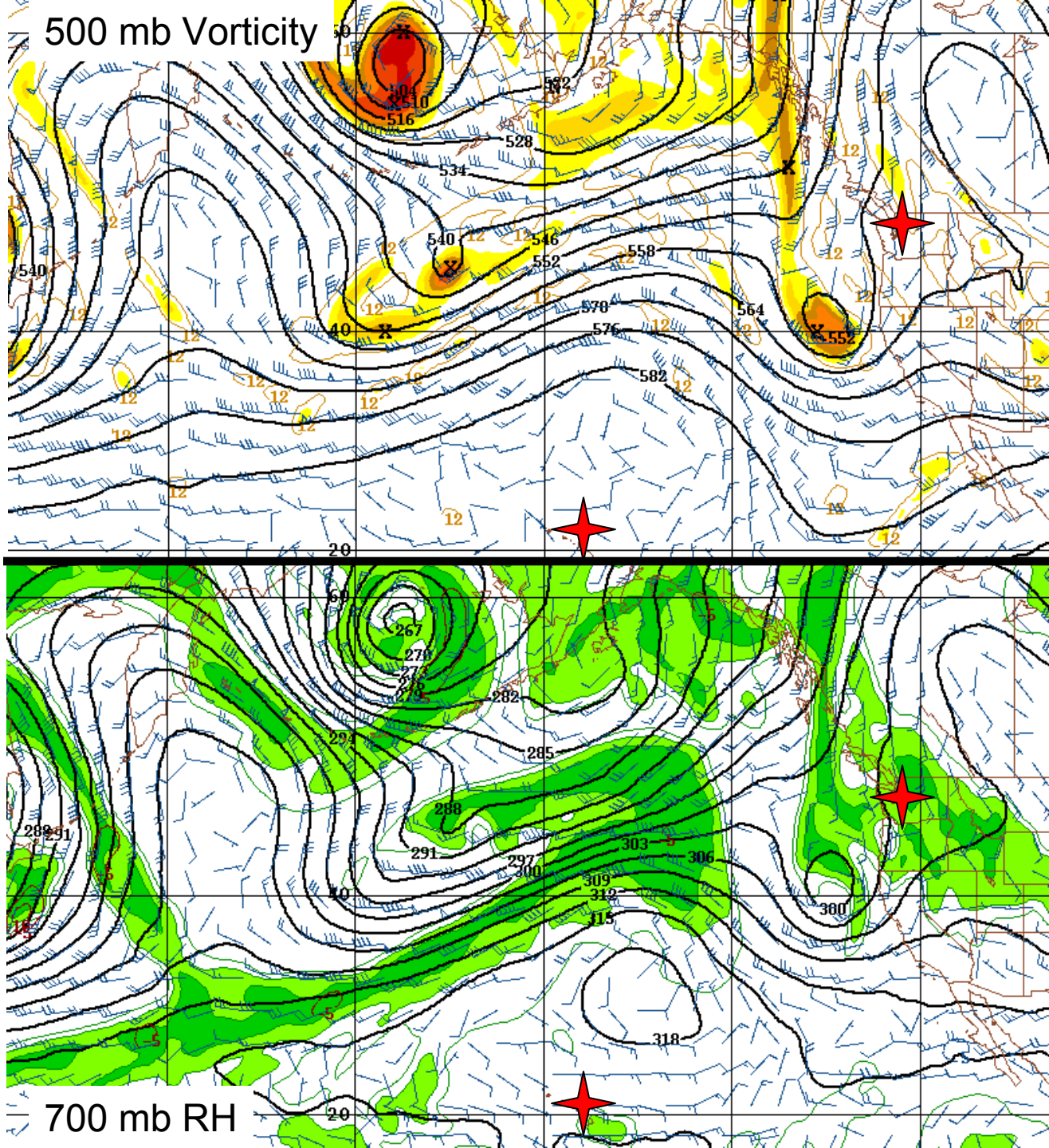
Mon 0424
6 z



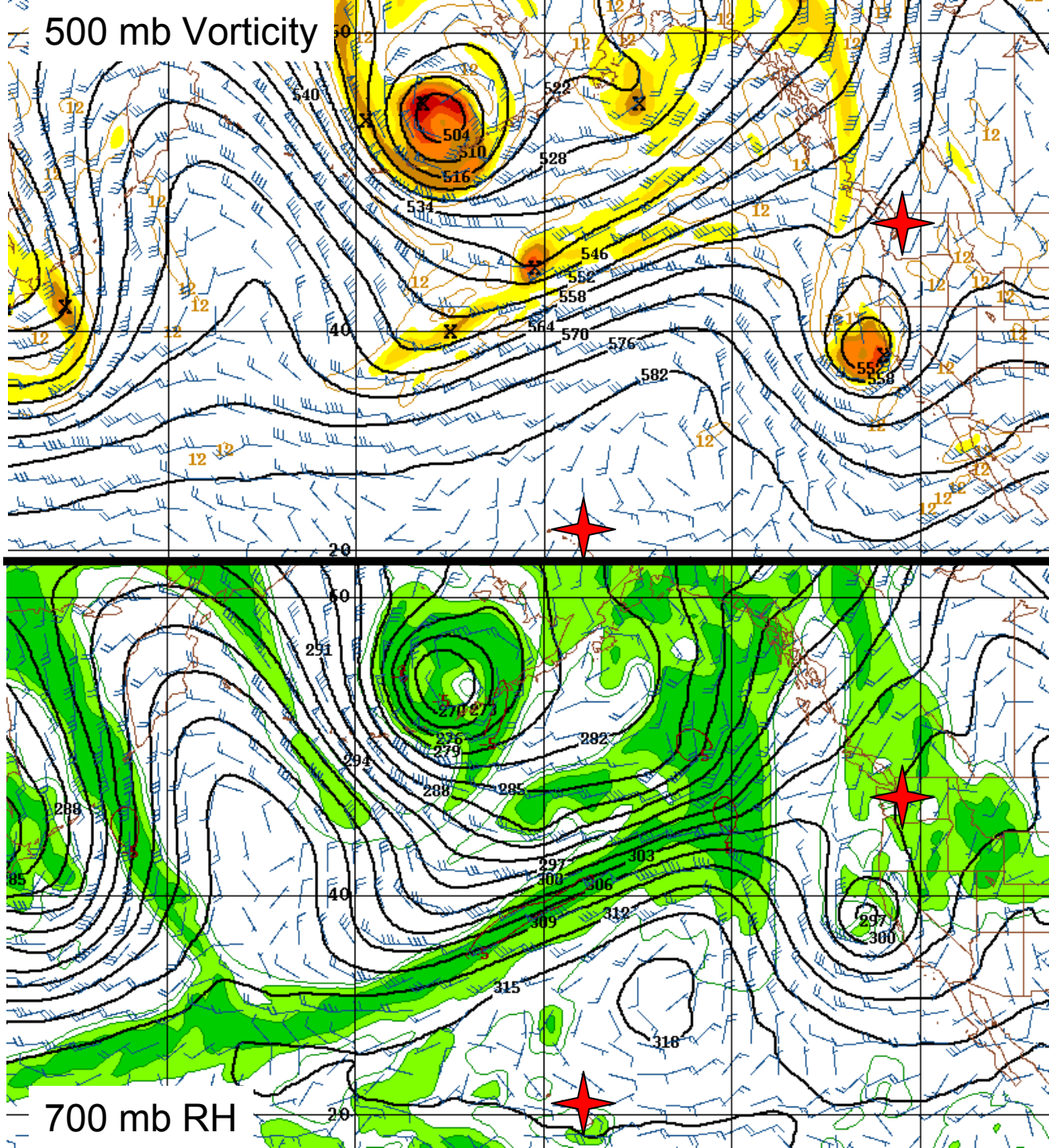
Mon 0424
18 z



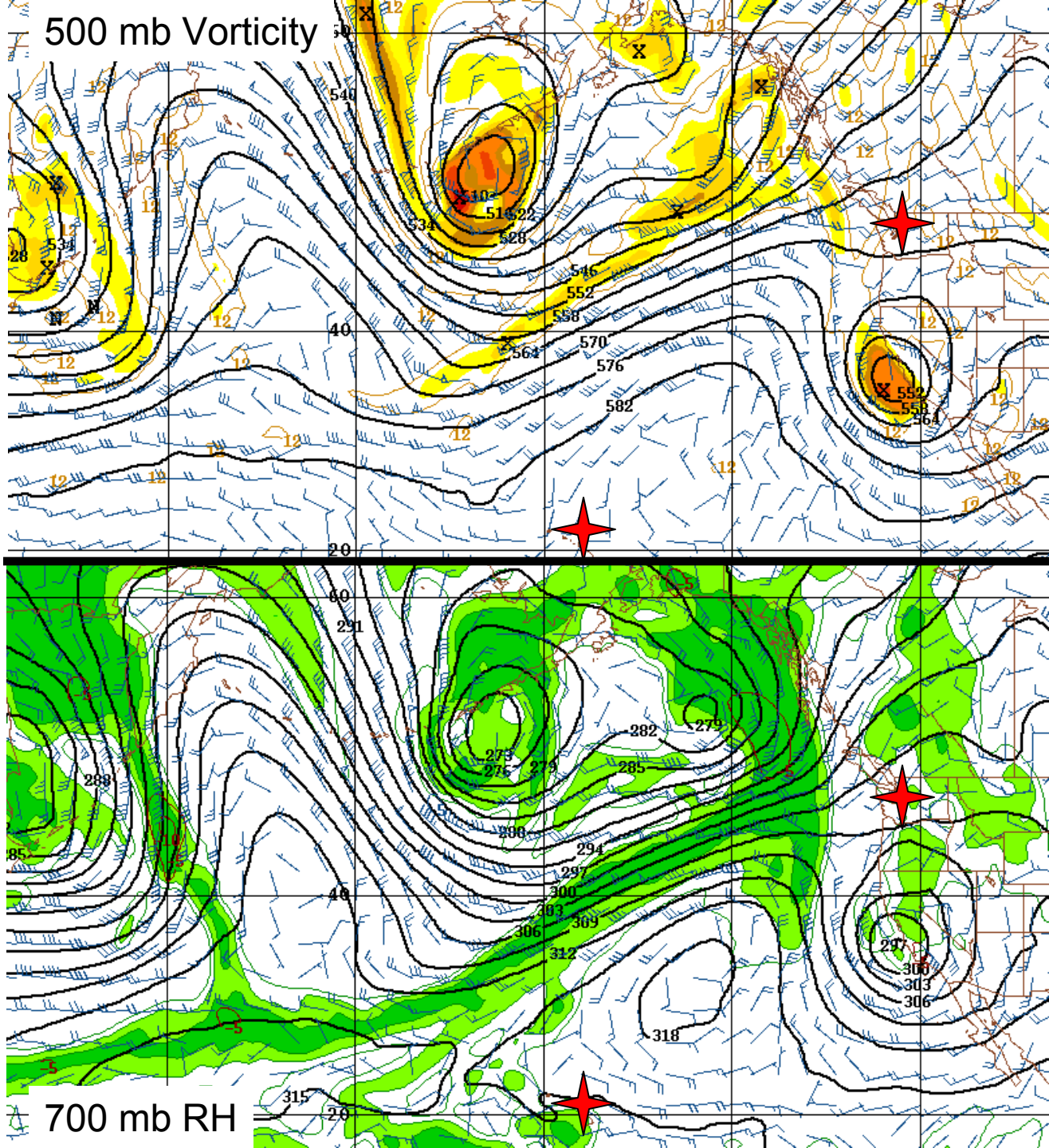
Tues 0425
6 z



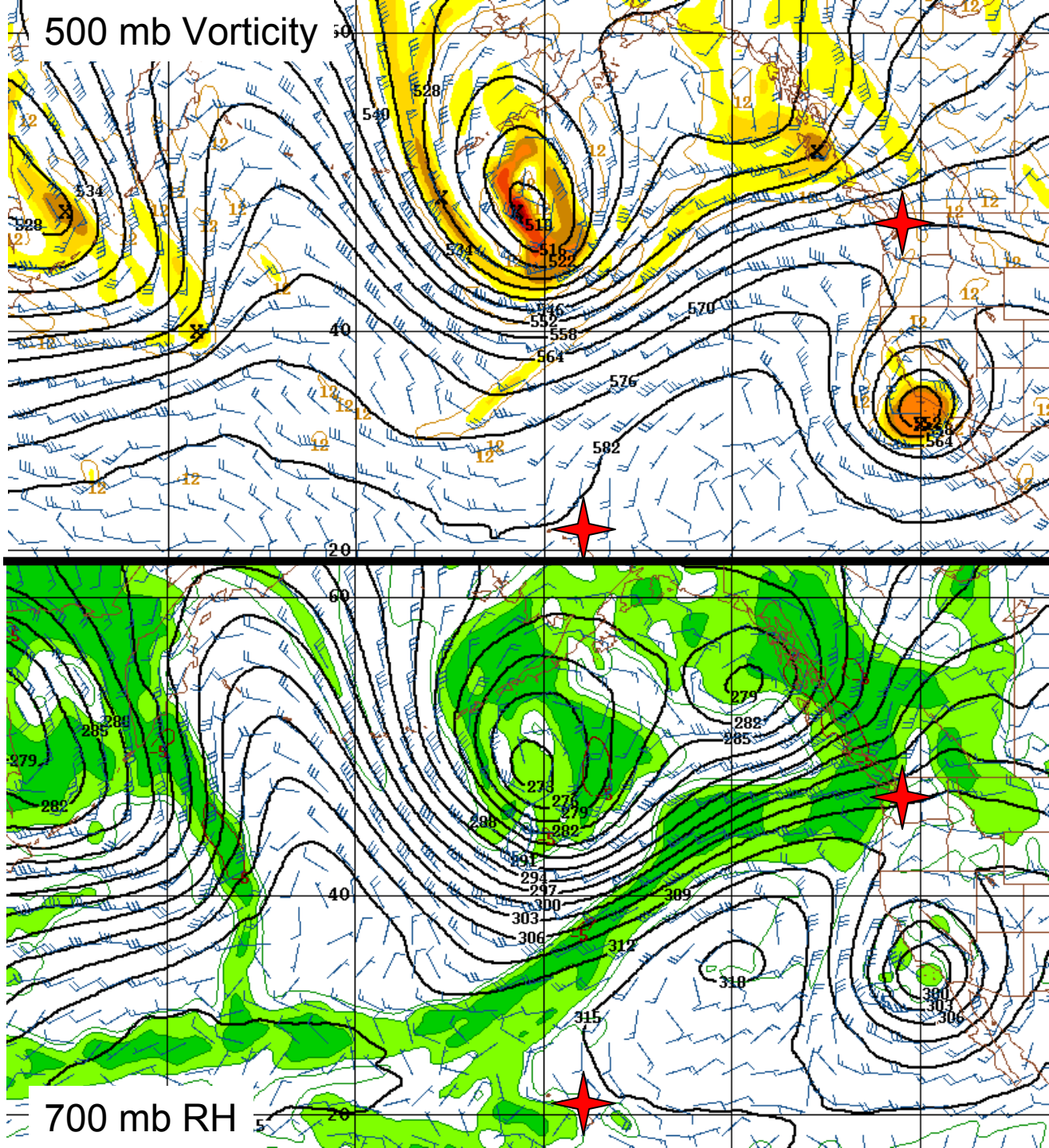
Tues 0425
18 z



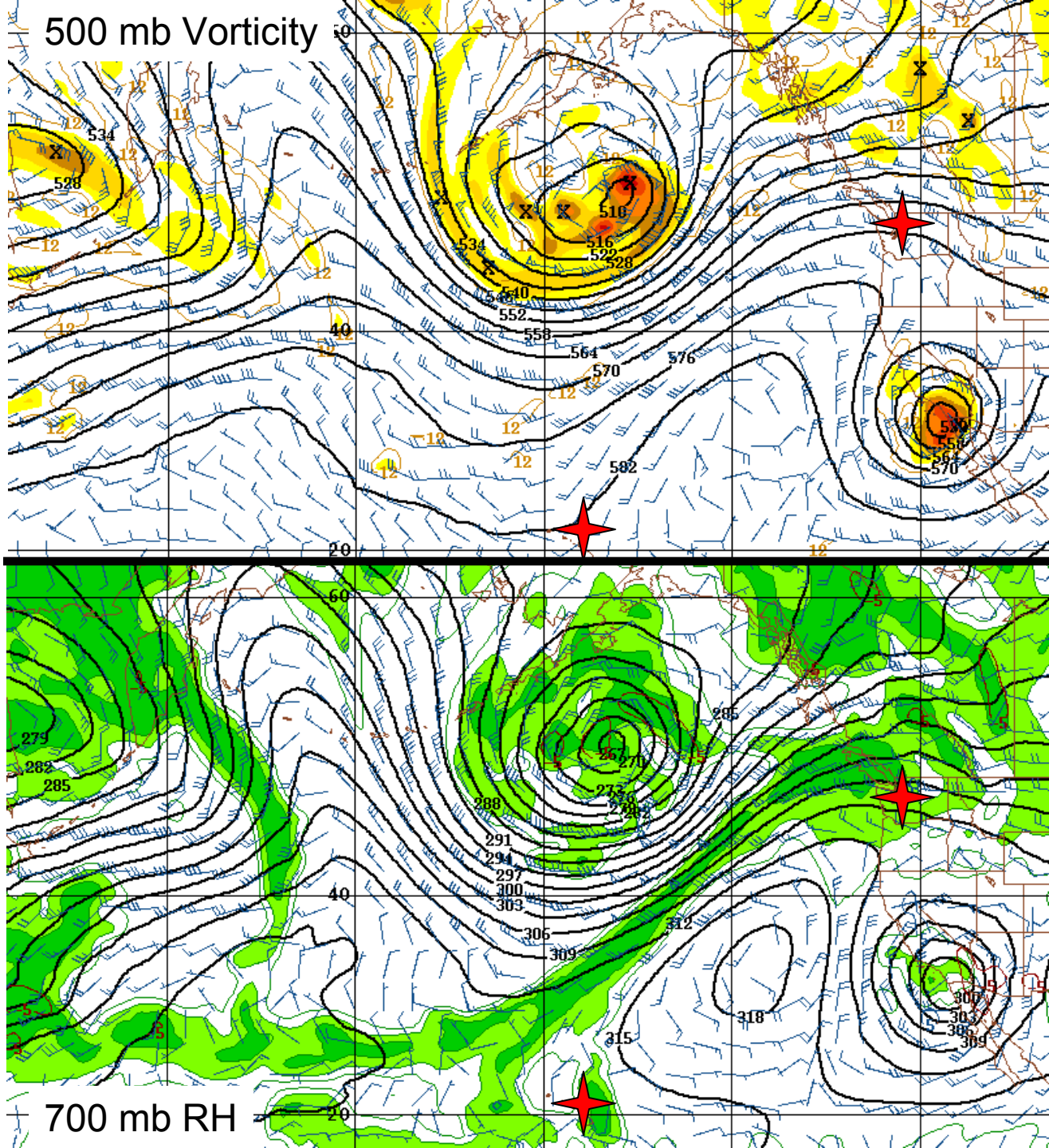
Wed 0426
6 z



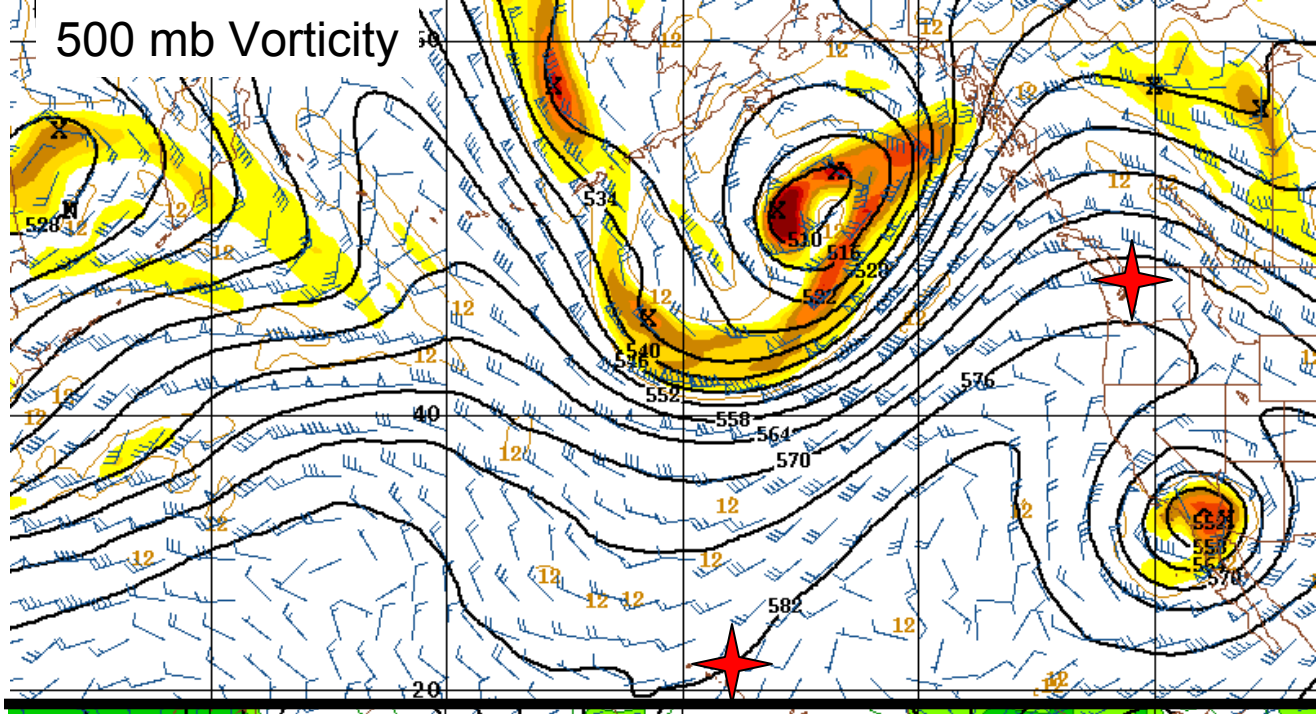
Wed 0426
18 z

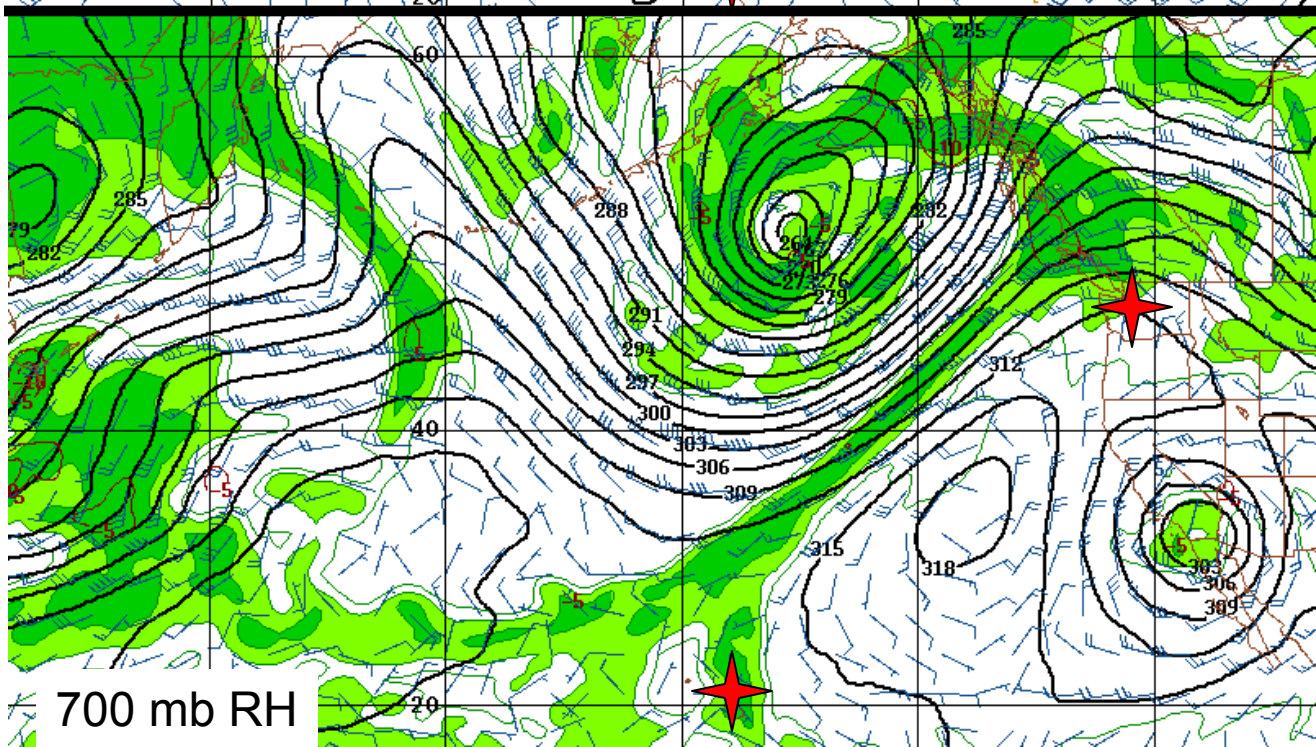


Thur 0427
6 z

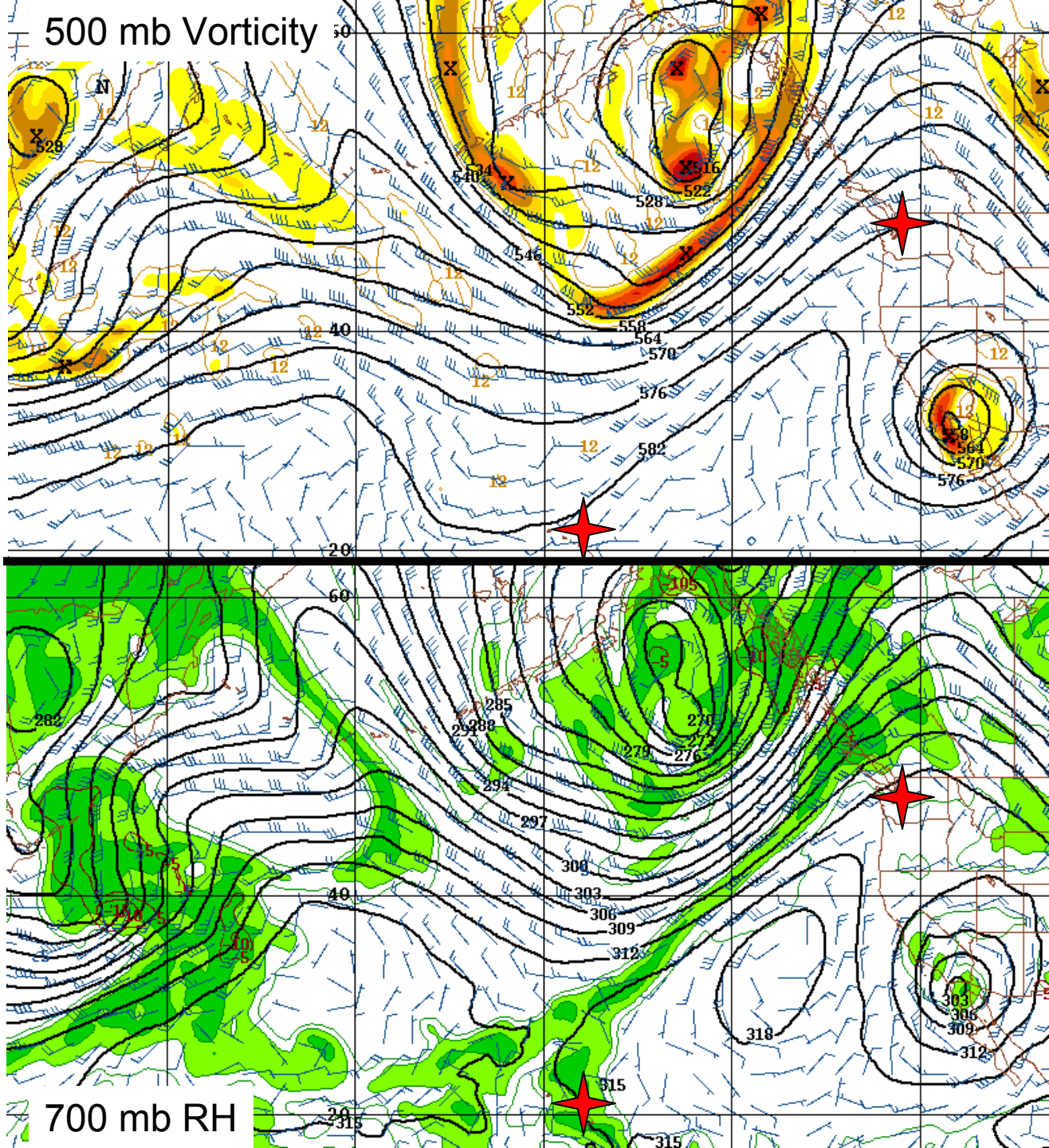


Thur 0427
18 z

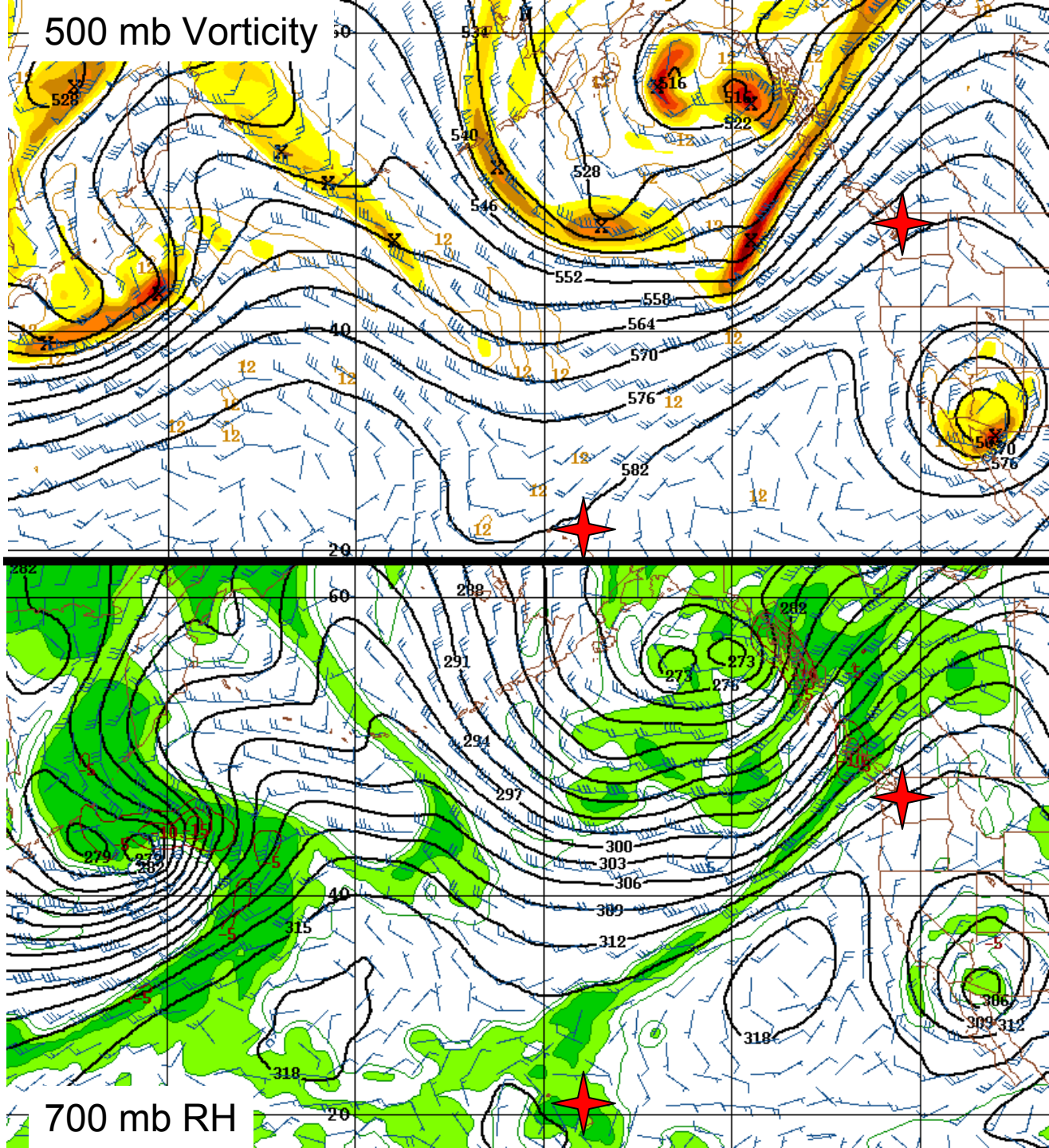




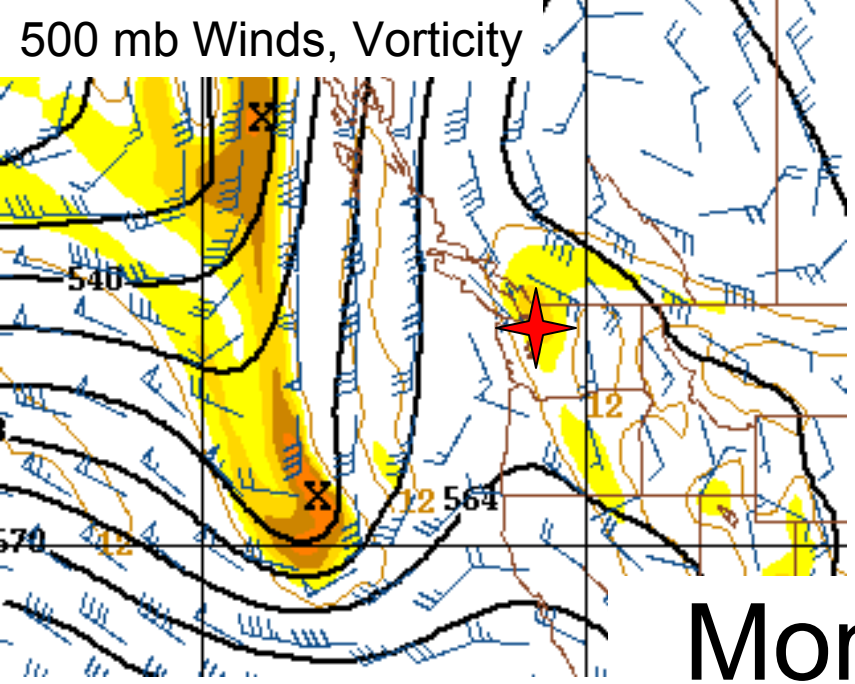
Fri 0428
6 z

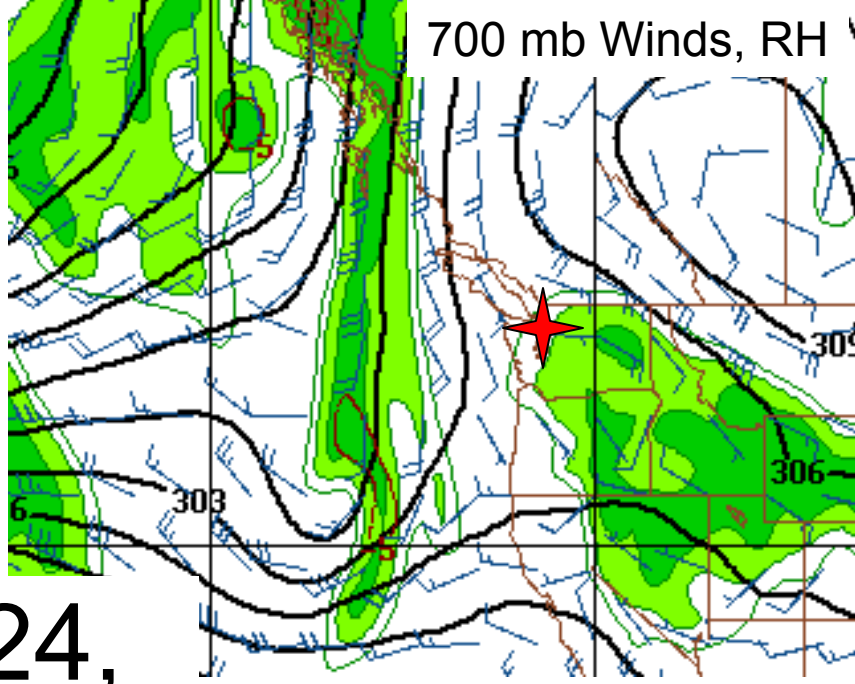


Fri 0428
18 z

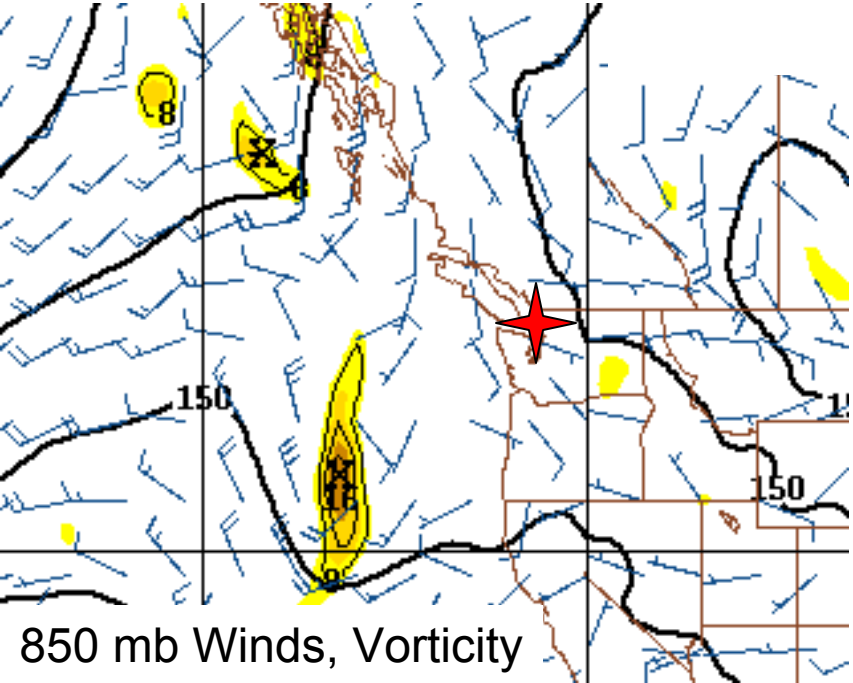


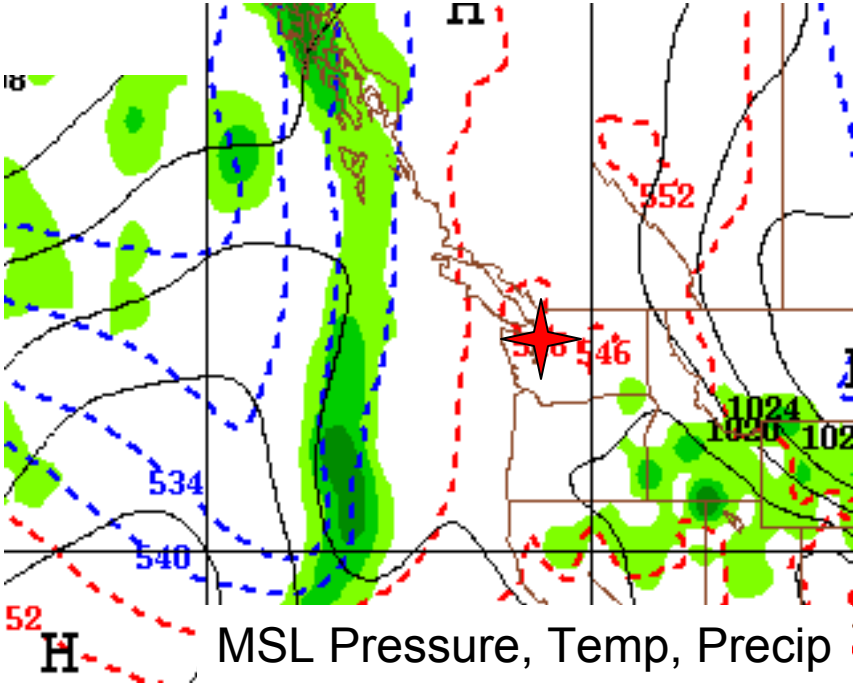
Potential Flight Days


500 mb Winds, Vorticity
540
12
564


700 mb Winds, RH
303
306

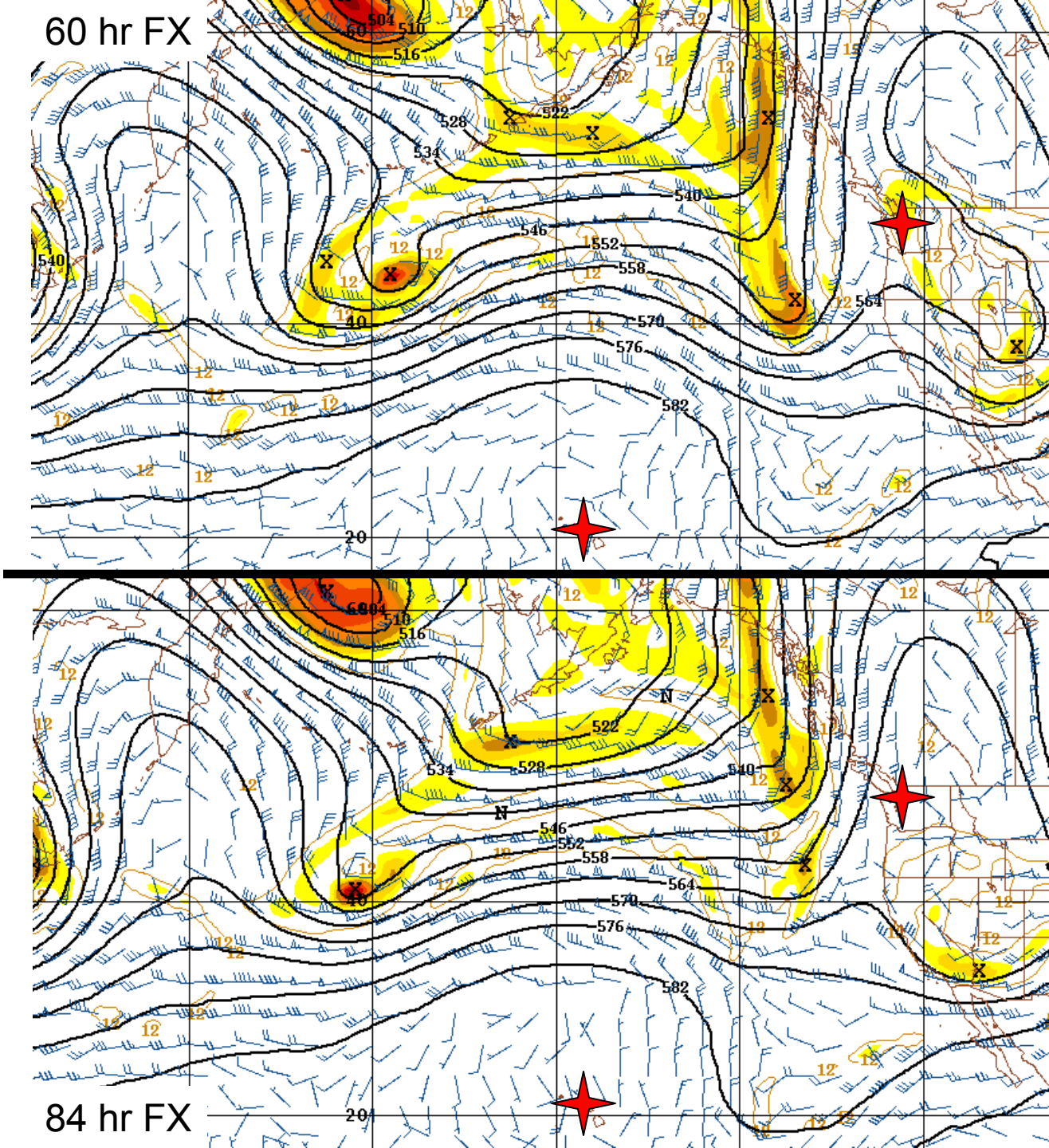
Mon 0424, 18z


850 mb Winds, Vorticity
150
150


MSL Pressure, Temp, Precip
552
546
534
540
1024
1020

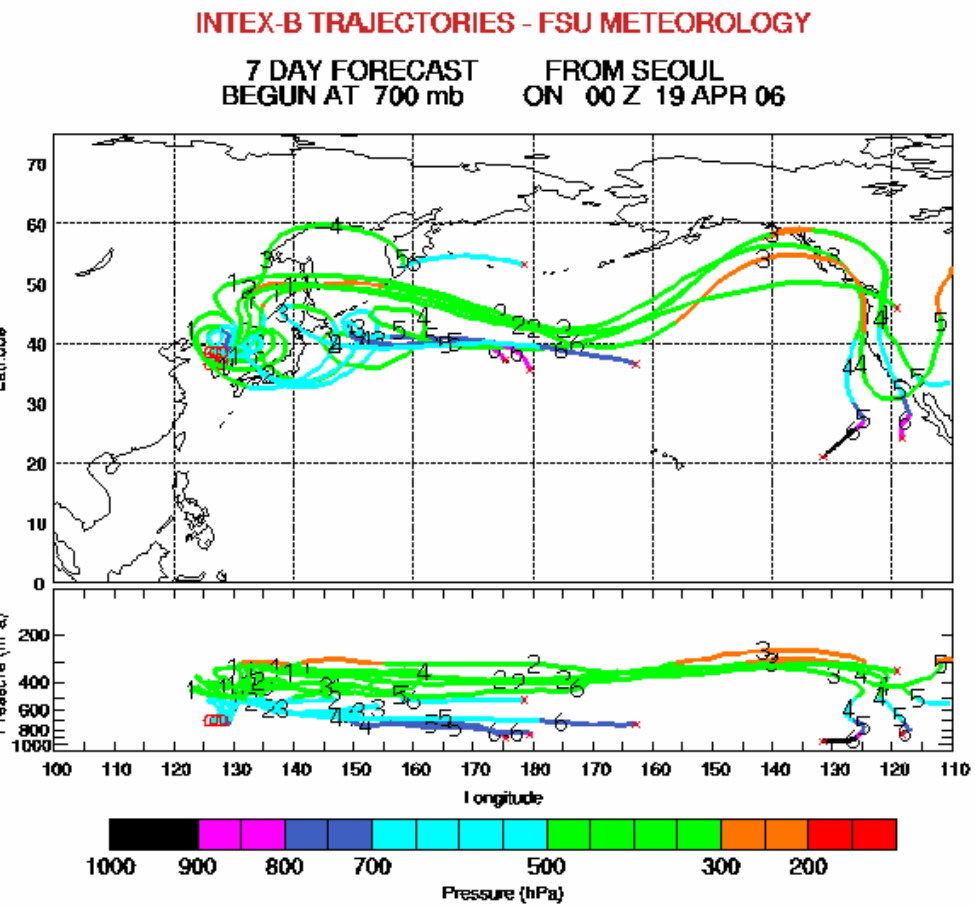
GFS Model Evolution

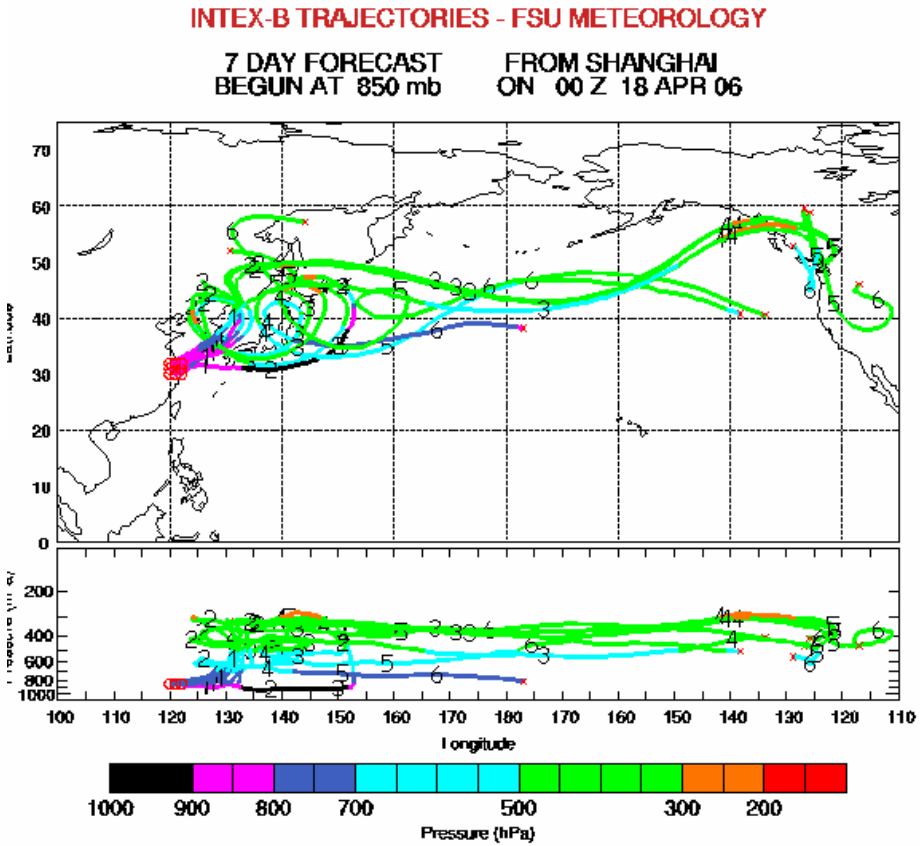
Mon 0424
18 z

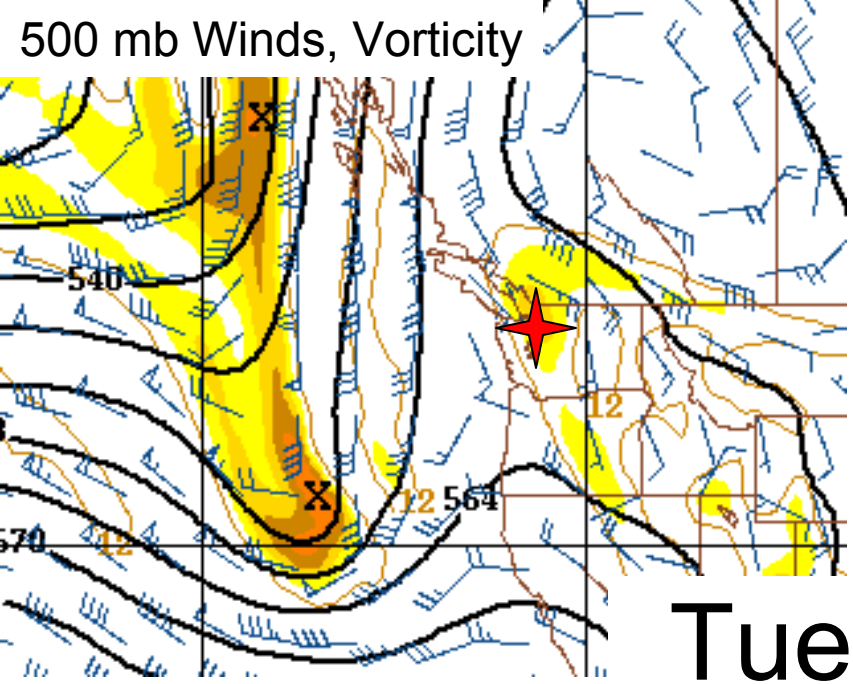


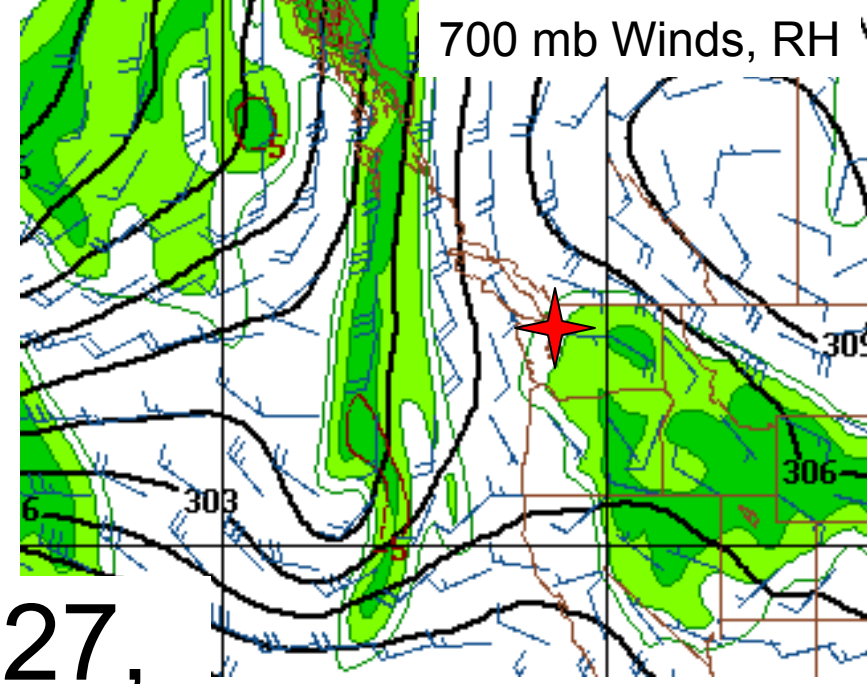
Forward Trajectories from Asia

Over Pac NW around midday Sat

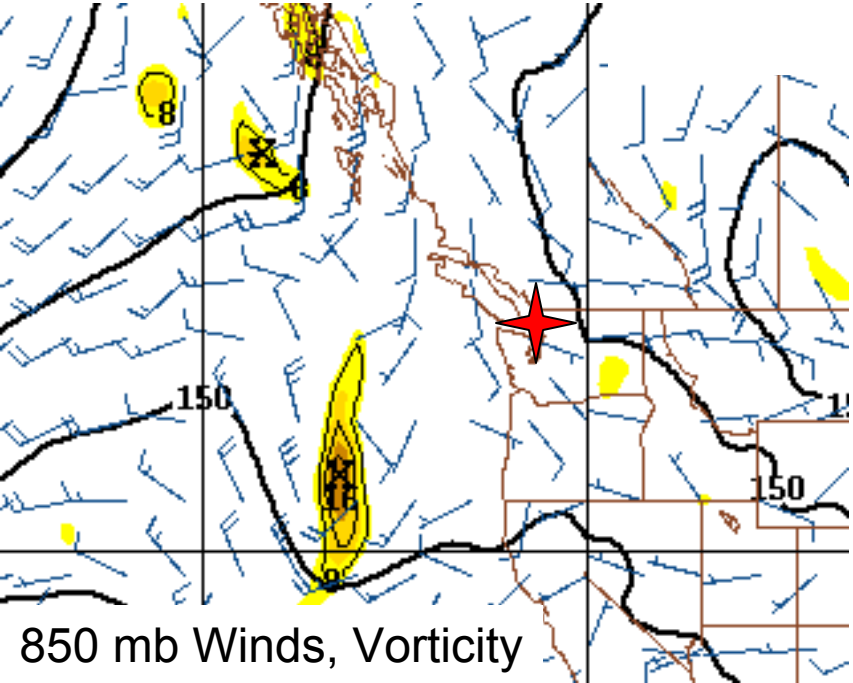


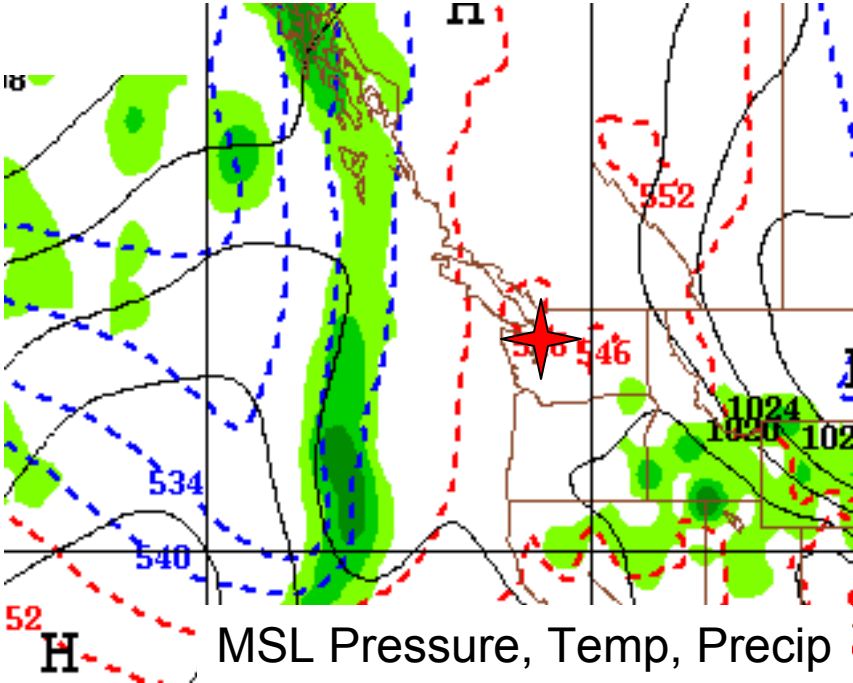






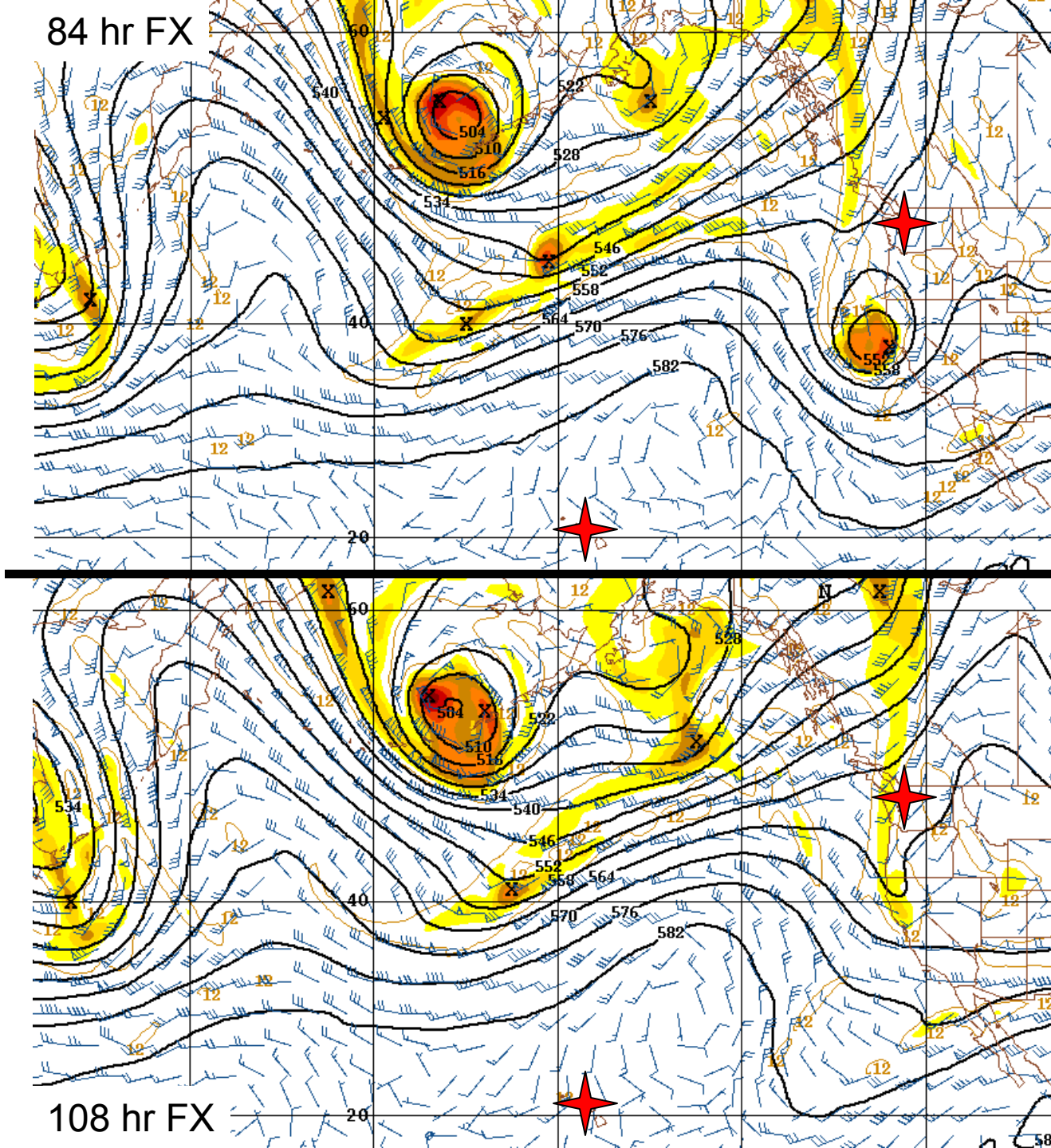
Tues 0427, 18z

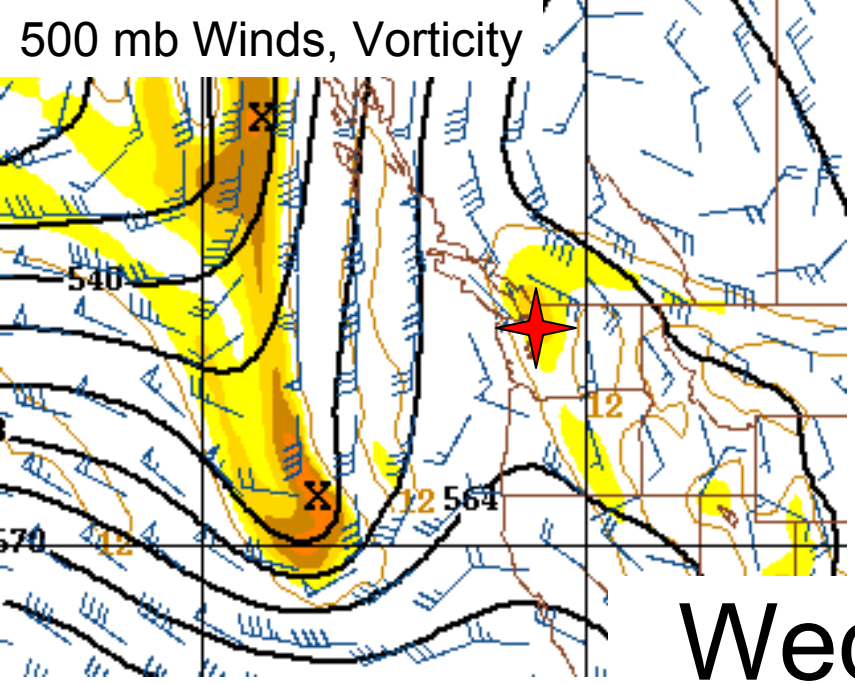


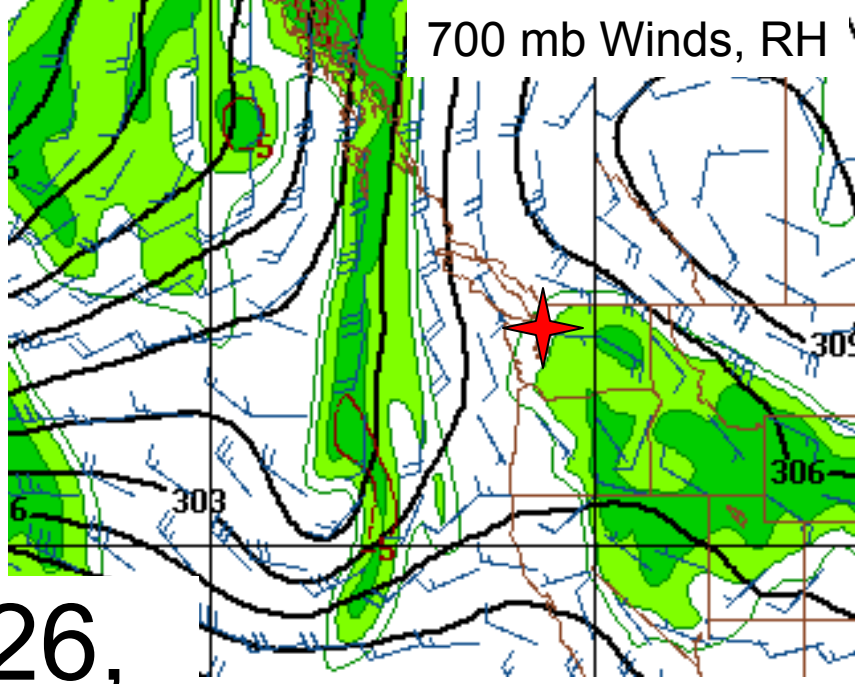


GFS Model Evolution

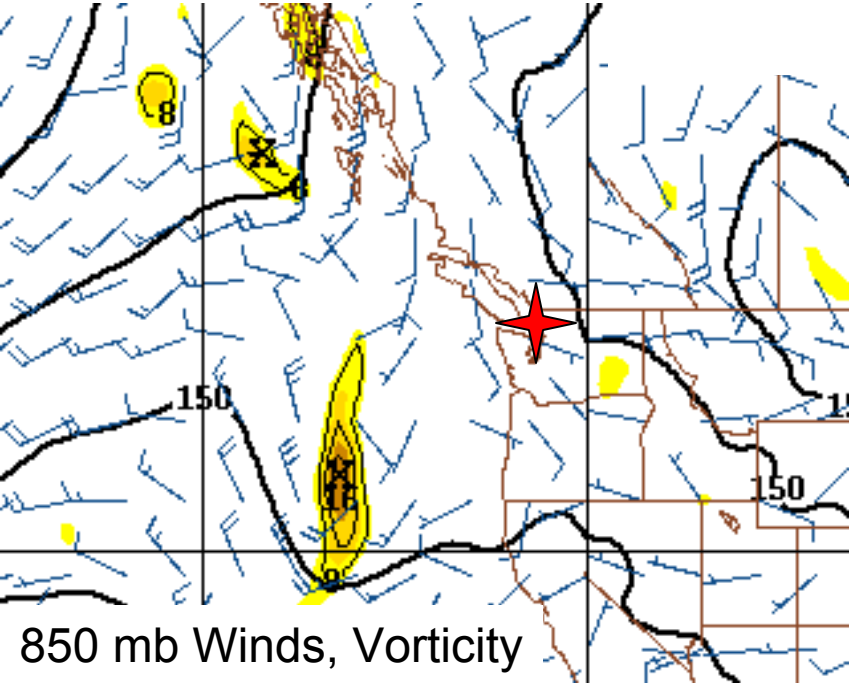
Tues 0425
18 z

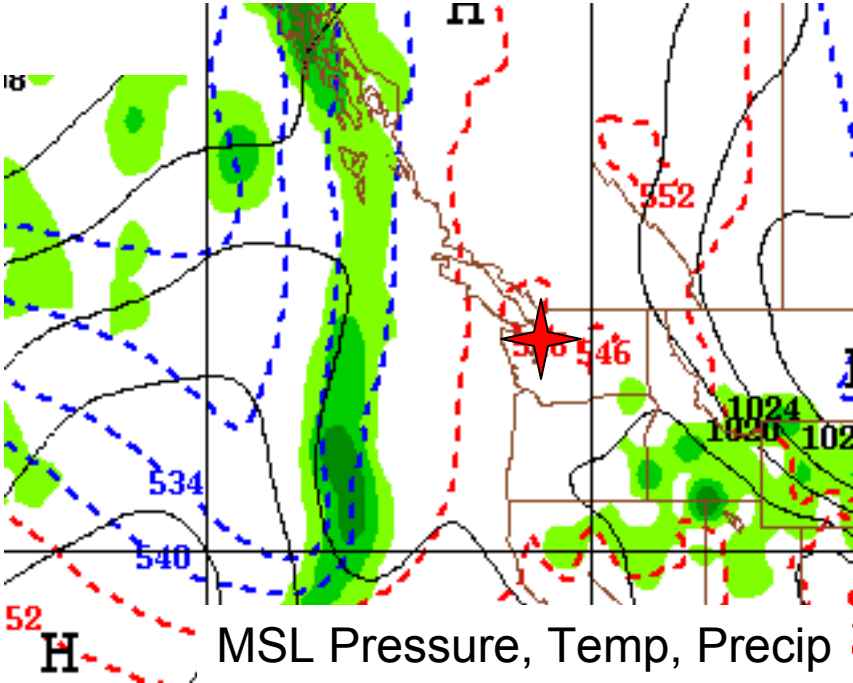



500 mb Winds, Vorticity
540
12
564


700 mb Winds, RH
303
306

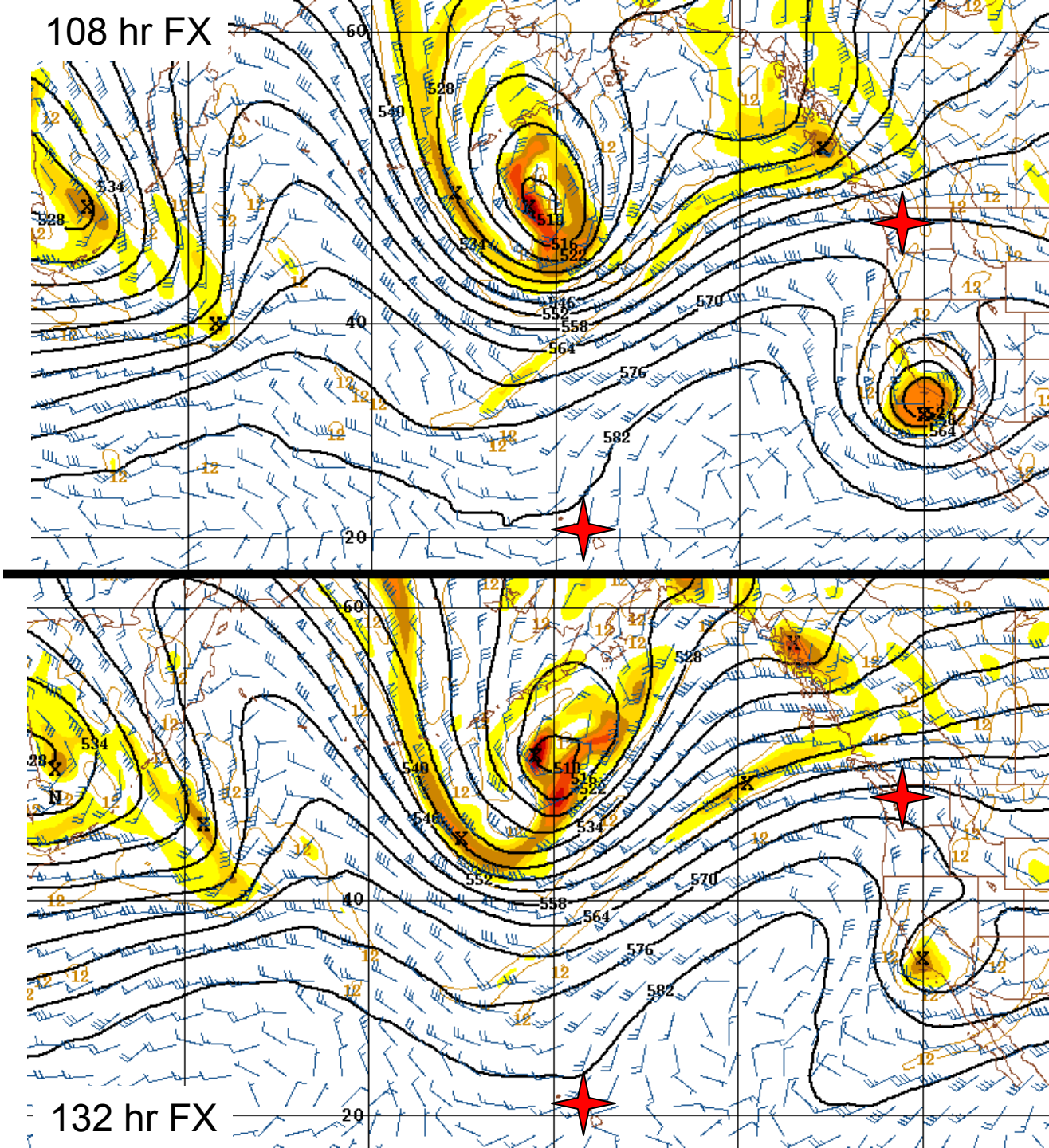
Wed 0426, 18z


850 mb Winds, Vorticity
150
150

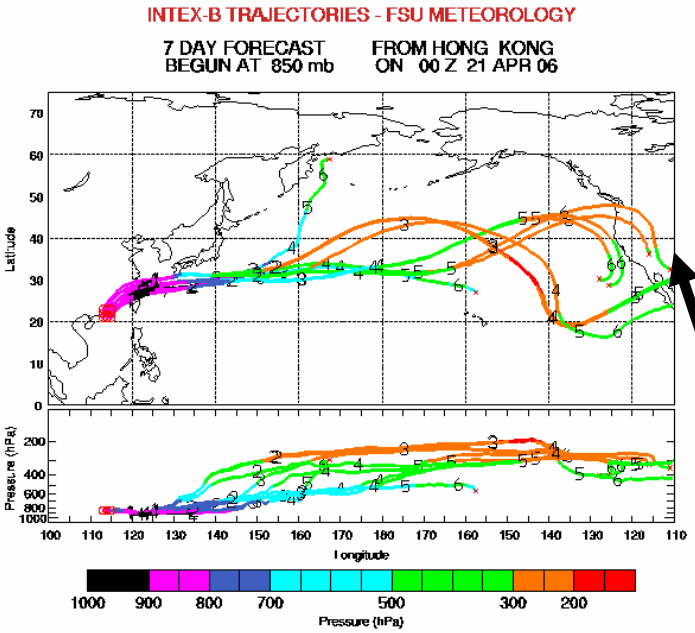

MSL Pressure, Temp, Precip
552
546
534
540
1024
H

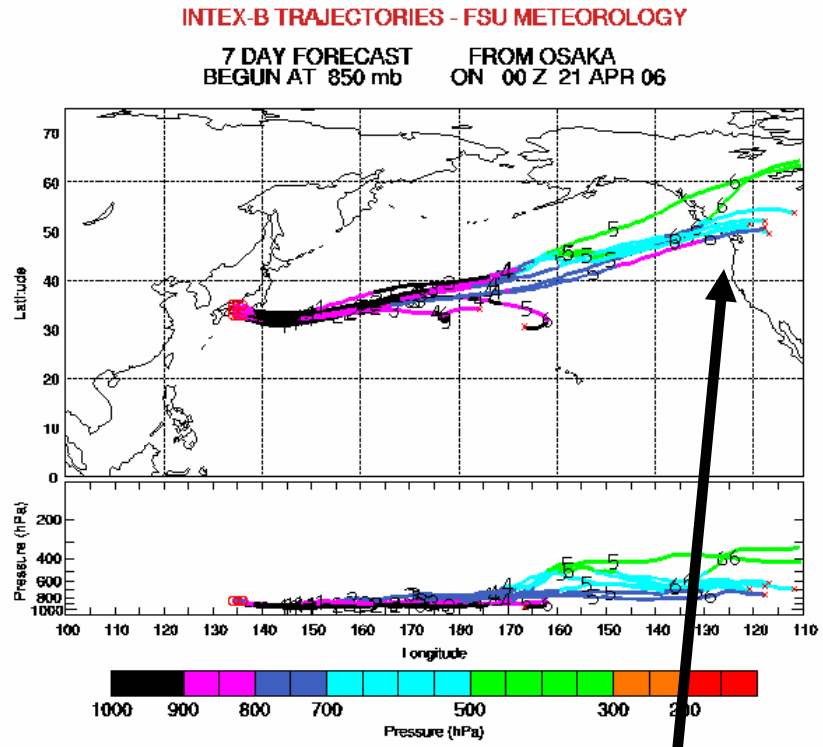
GFS Model Evolution

Wed 0426
18 z

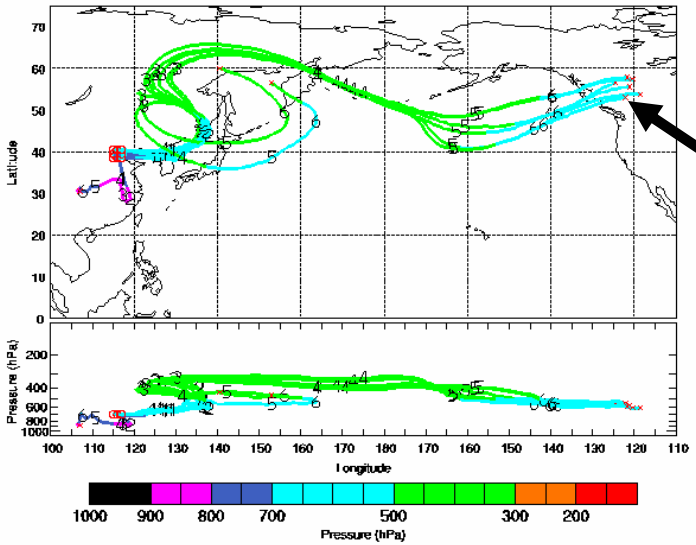


Forward Trajectories from Asia





Air from Japan slowly travels through boundary layer, crosses Pac NW in mid levels late Wed

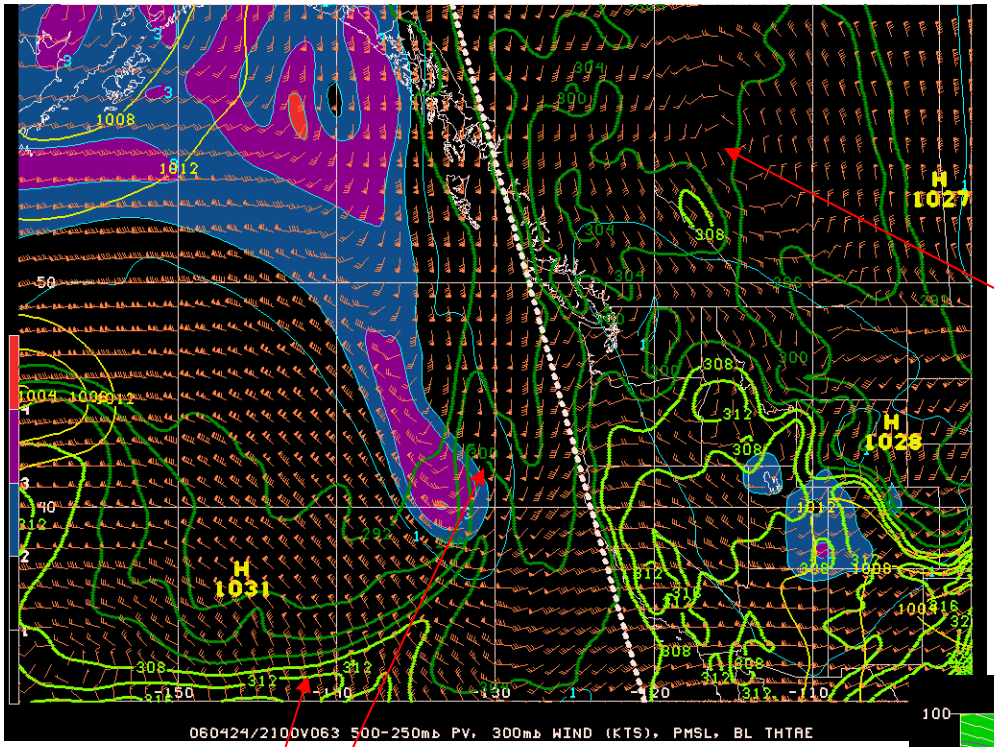


Air from China lofted quicker and carried across at upper levels. Subsiding to our north around the ridge late Wed/ Thur

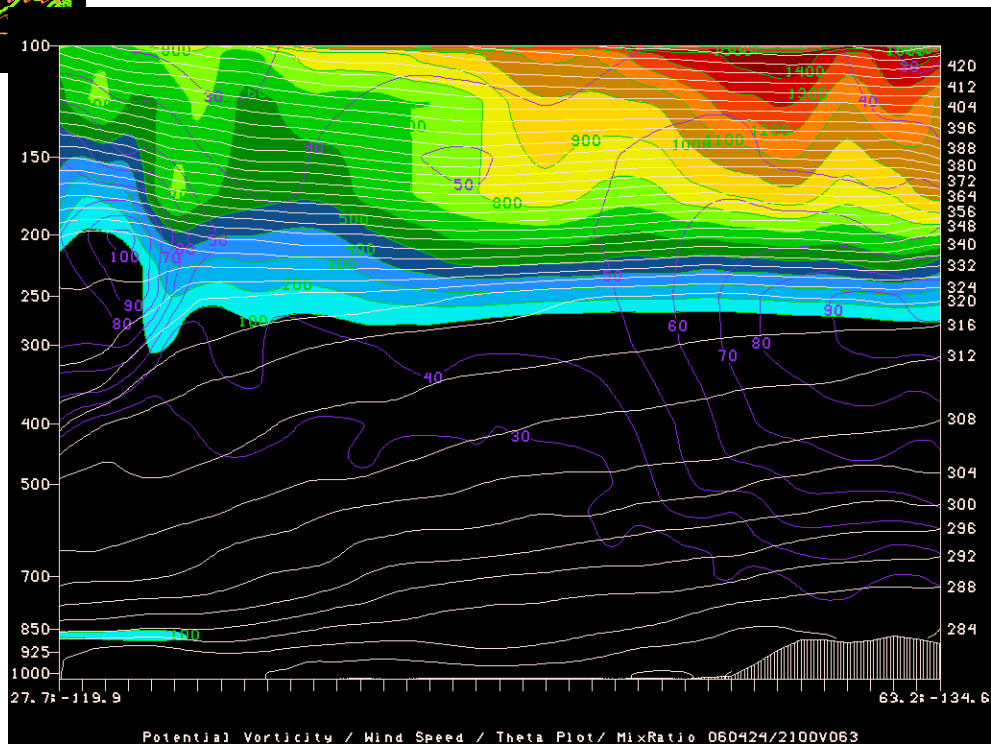
Local Weather

Today	Tonight	Sunday	Sunday Night	Monday	Monday Night	Tuesday	Tuesday Night	Wednesday
Sunny	Clear	Sunny	Mostly Clear	Partly Cloudy	Partly Cloudy	Mostly Cloudy	Mostly Cloudy	Partly Cloudy
Hi 57°F PoP 0%	Lo 36°F PoP 0%	Hi 63°F PoP 0%	Lo 39°F PoP 0%	Hi 63°F PoP 10%	Lo 42°F PoP 10%	Hi 57°F PoP 10%	Lo 40°F PoP 10%	Hi 58°F PoP 10%

Monday Satellite Aura Track and Cross Section 4/24 21UTC



Strong upper level ridge to our North



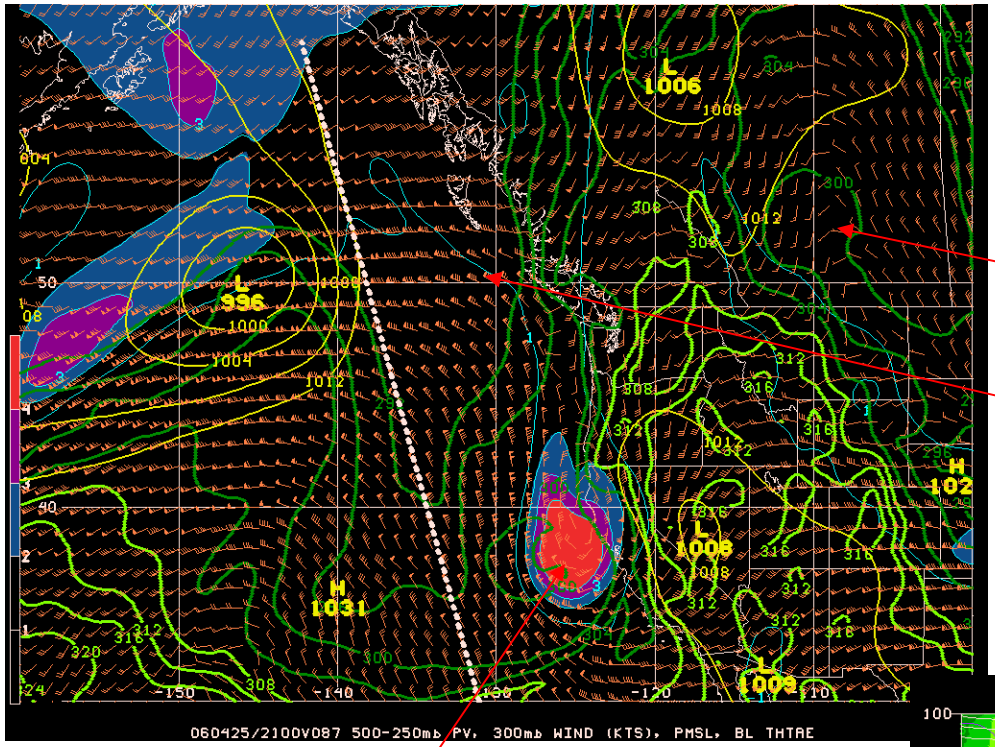
Split jet flow-

Result in highly amplified flow over the NE Pacific

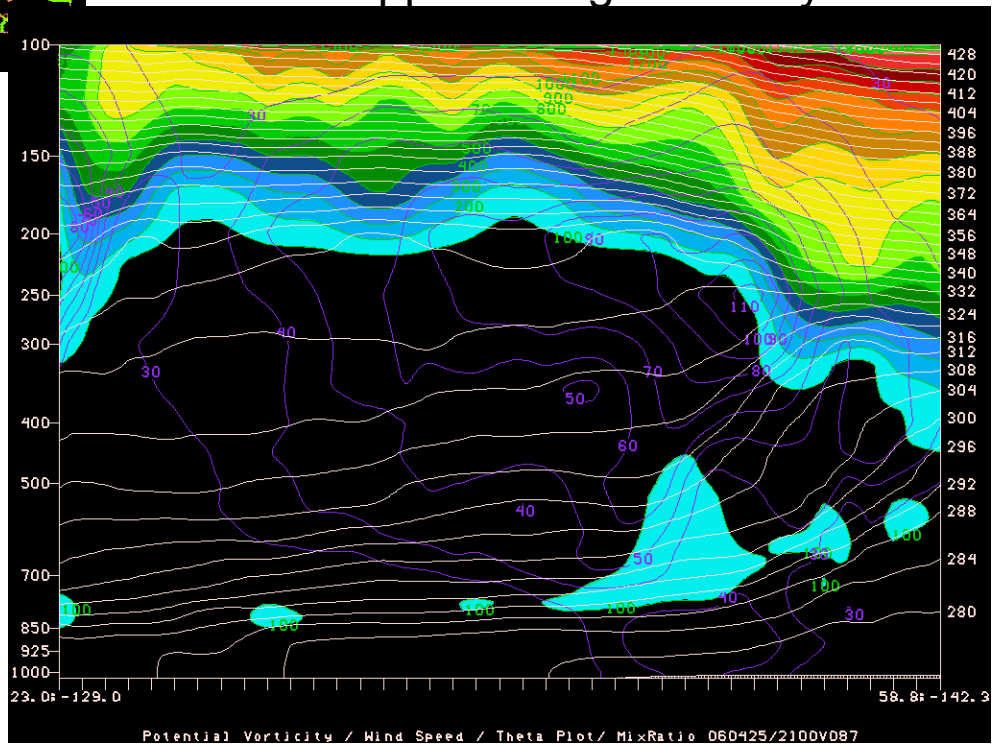
Tuesday Satellite Aura Track and Cross Section 4/25 21UTC

Upper level ridge moves E and S

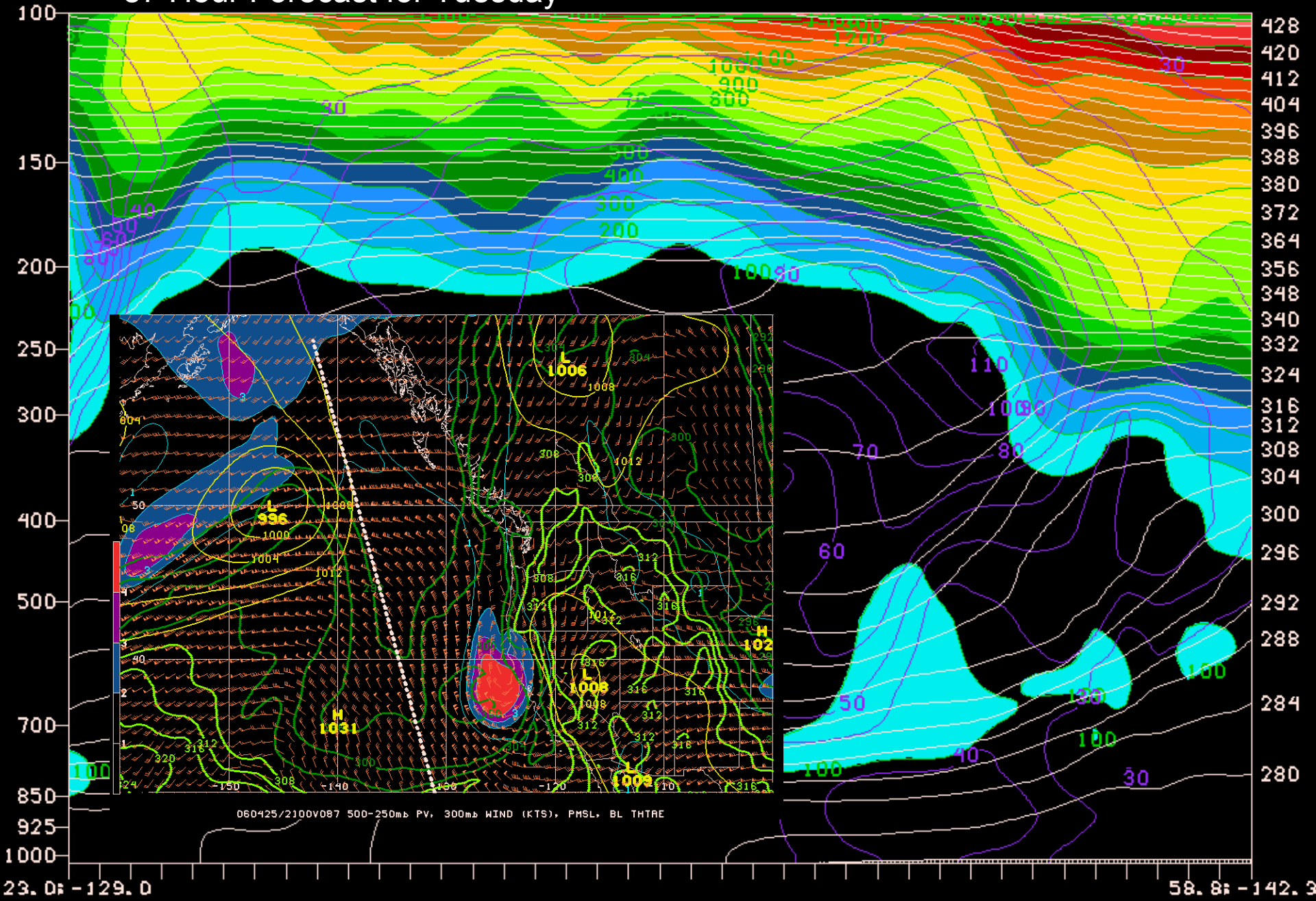
Most favorable transport of polluted air may be to our North, off the coast of BC ahead of the next approaching frontal system

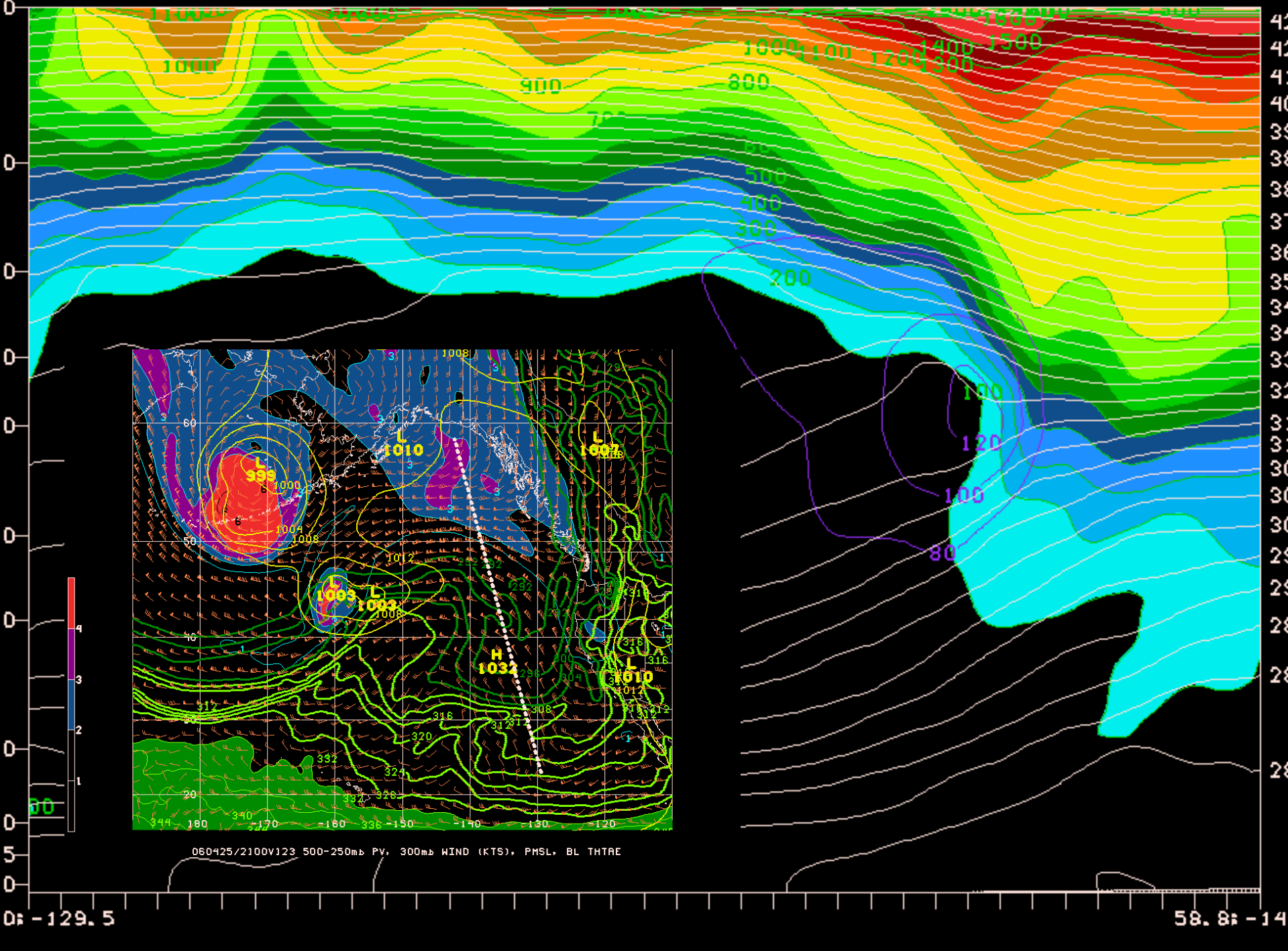


Another cutoff circulation sets up just west of California



87 Hour Forecast for Tuesday



Potential Vorticity / Wind Speed / Theta Plot/ MixRatio 060425/2100V087

129 Hour Forecast for Tuesday