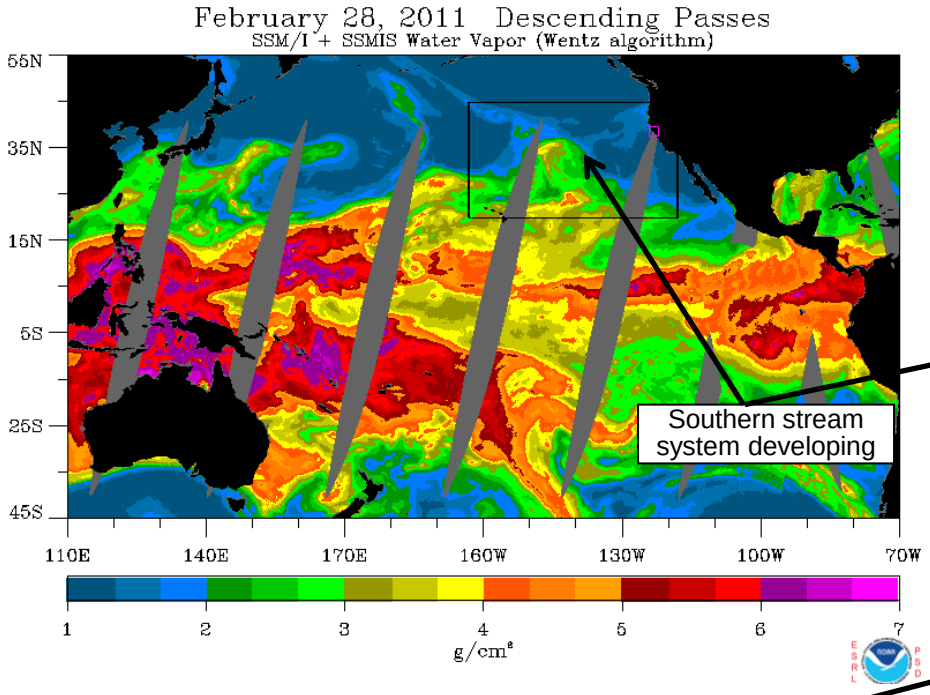
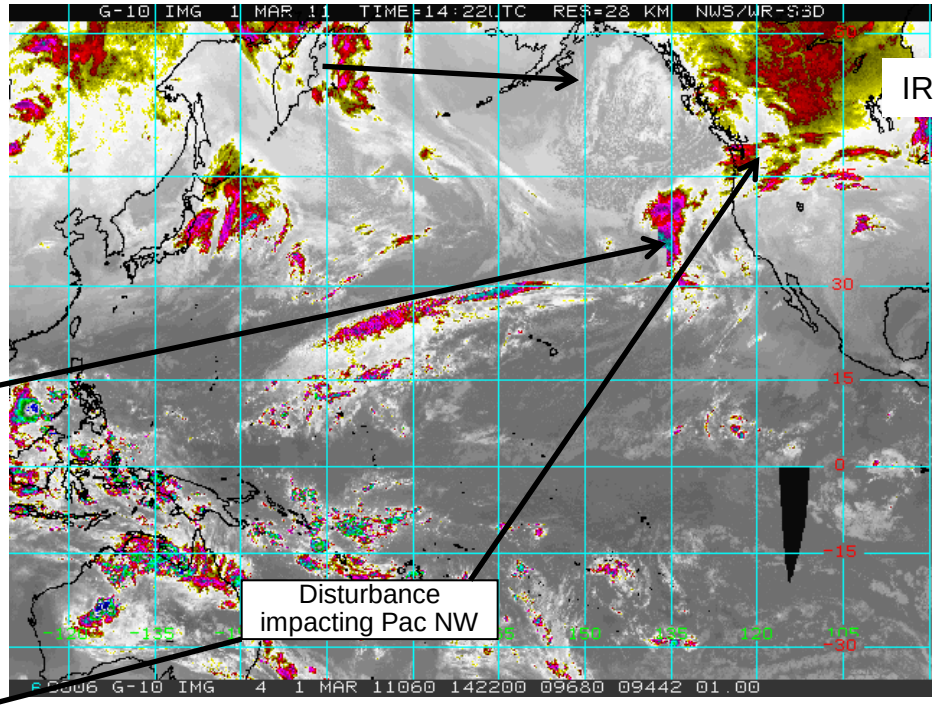
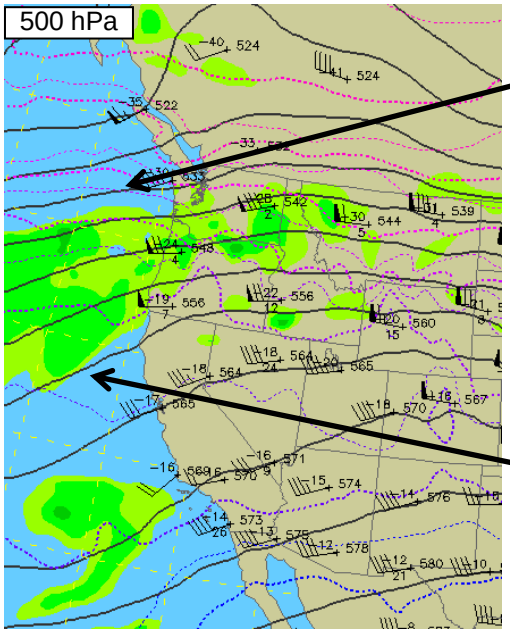
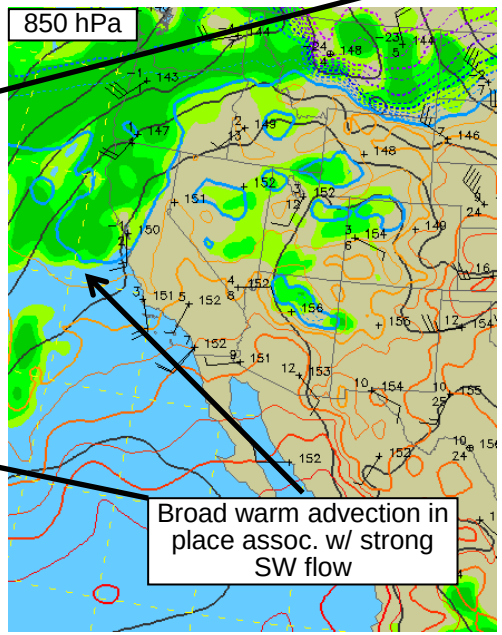
Weather forecast graphics for CalWater/HMT-2011: 1 Mar 2011

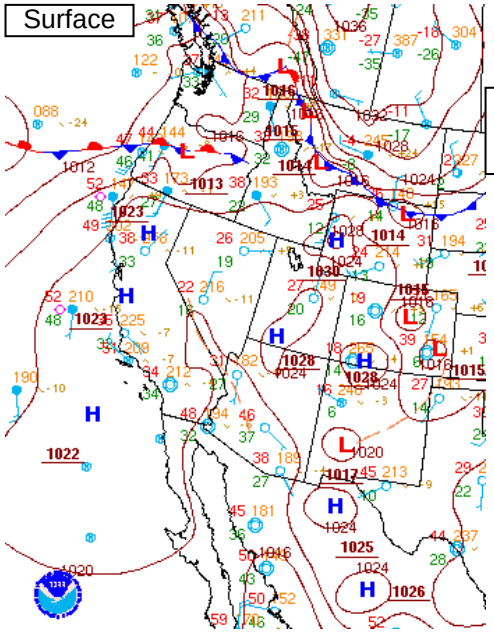
Conditions this morning





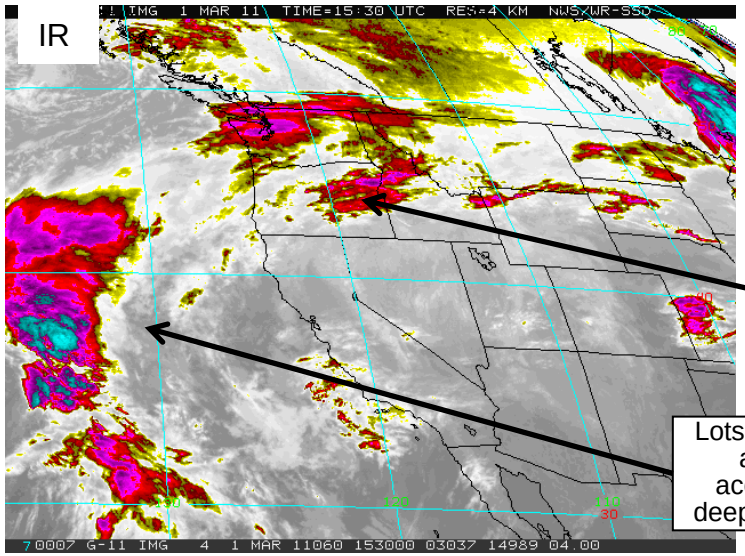


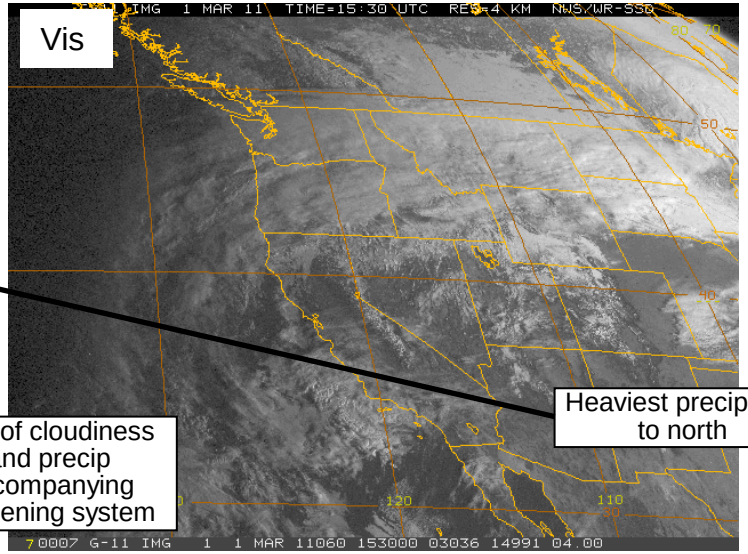


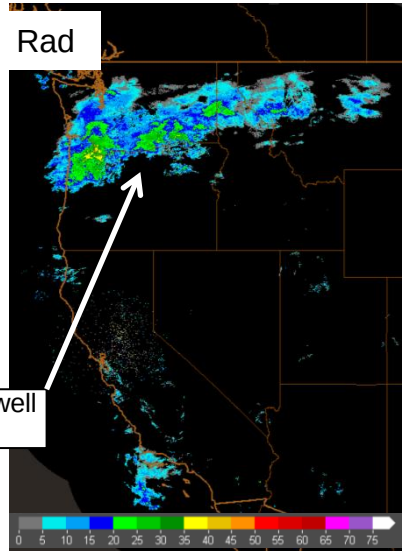


Cold-front has become stationary off OR coast

Conditions this morning



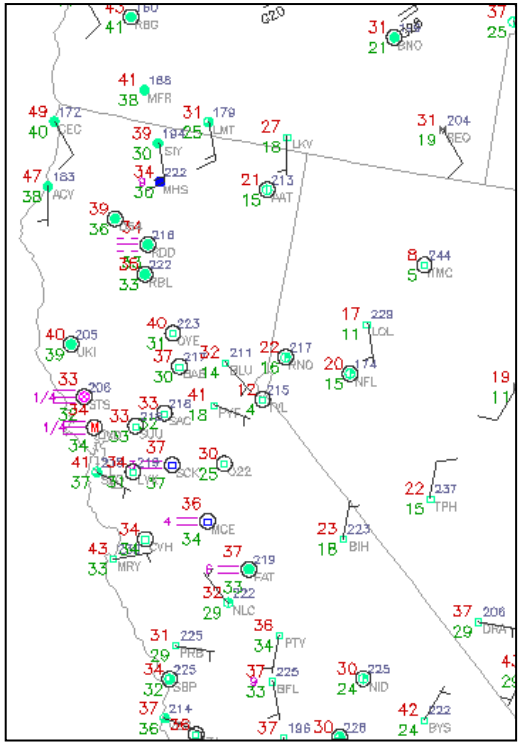




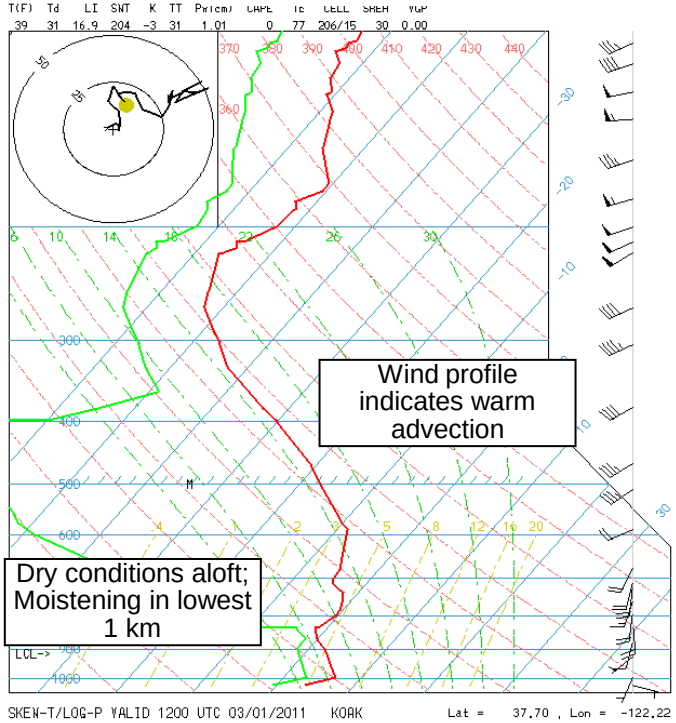
Lots of cloudiness and precip accompanying deepening system

Heaviest precip well to north

Surface

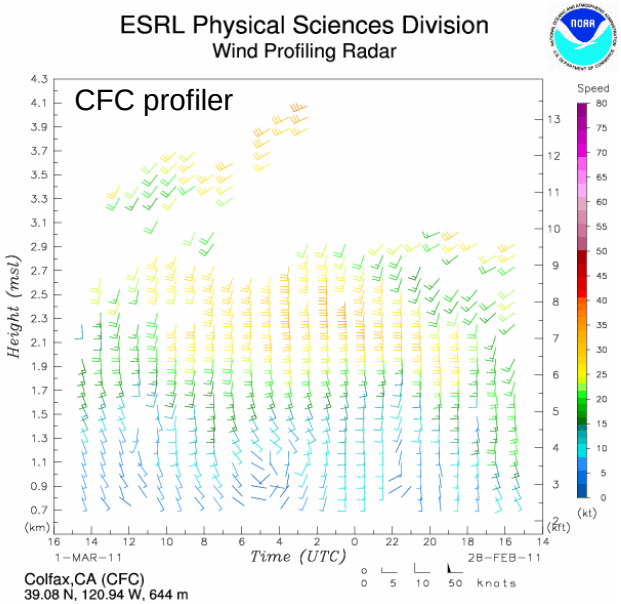


OAK Sounding

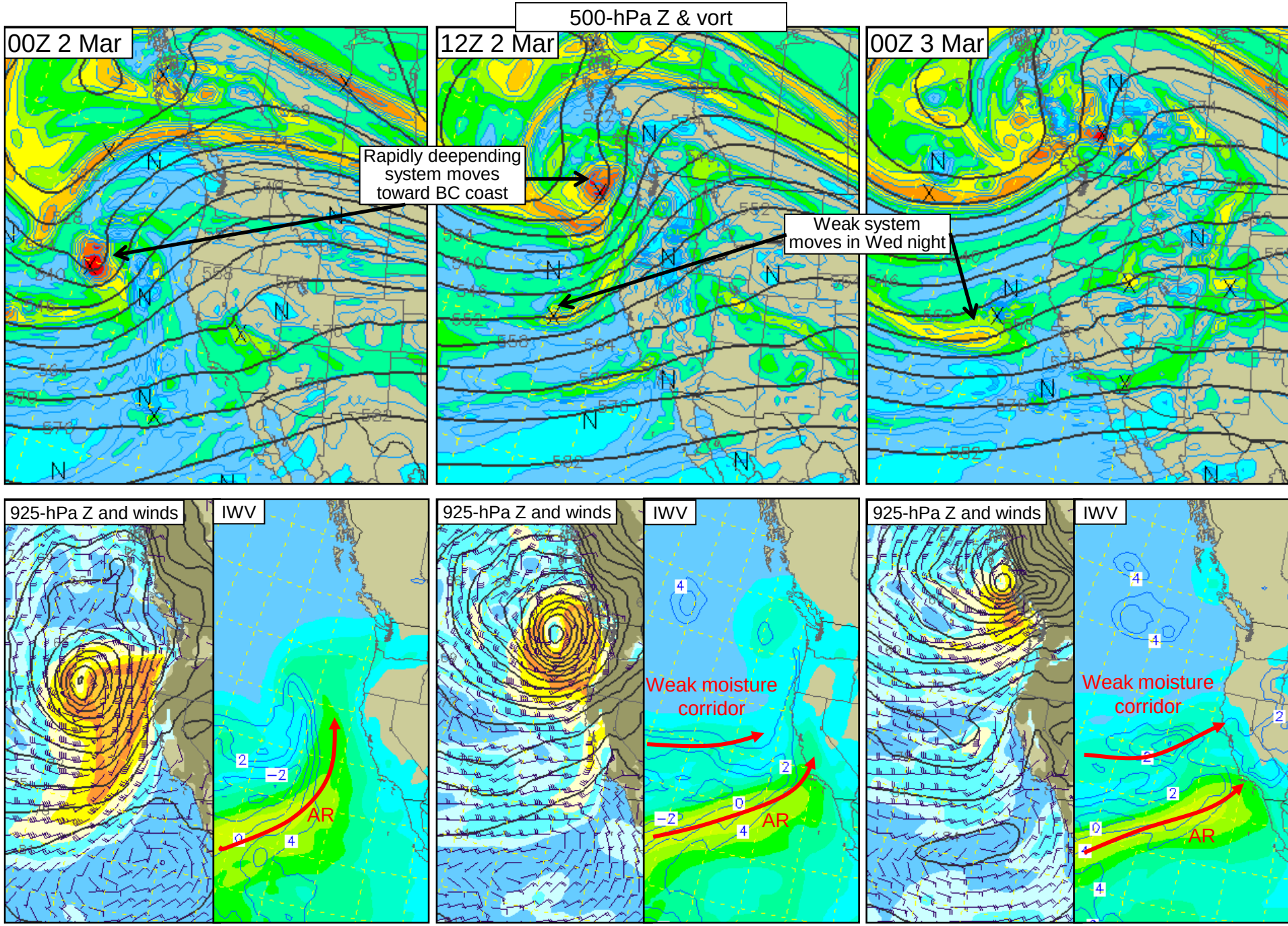


Wind profile indicates warm advection

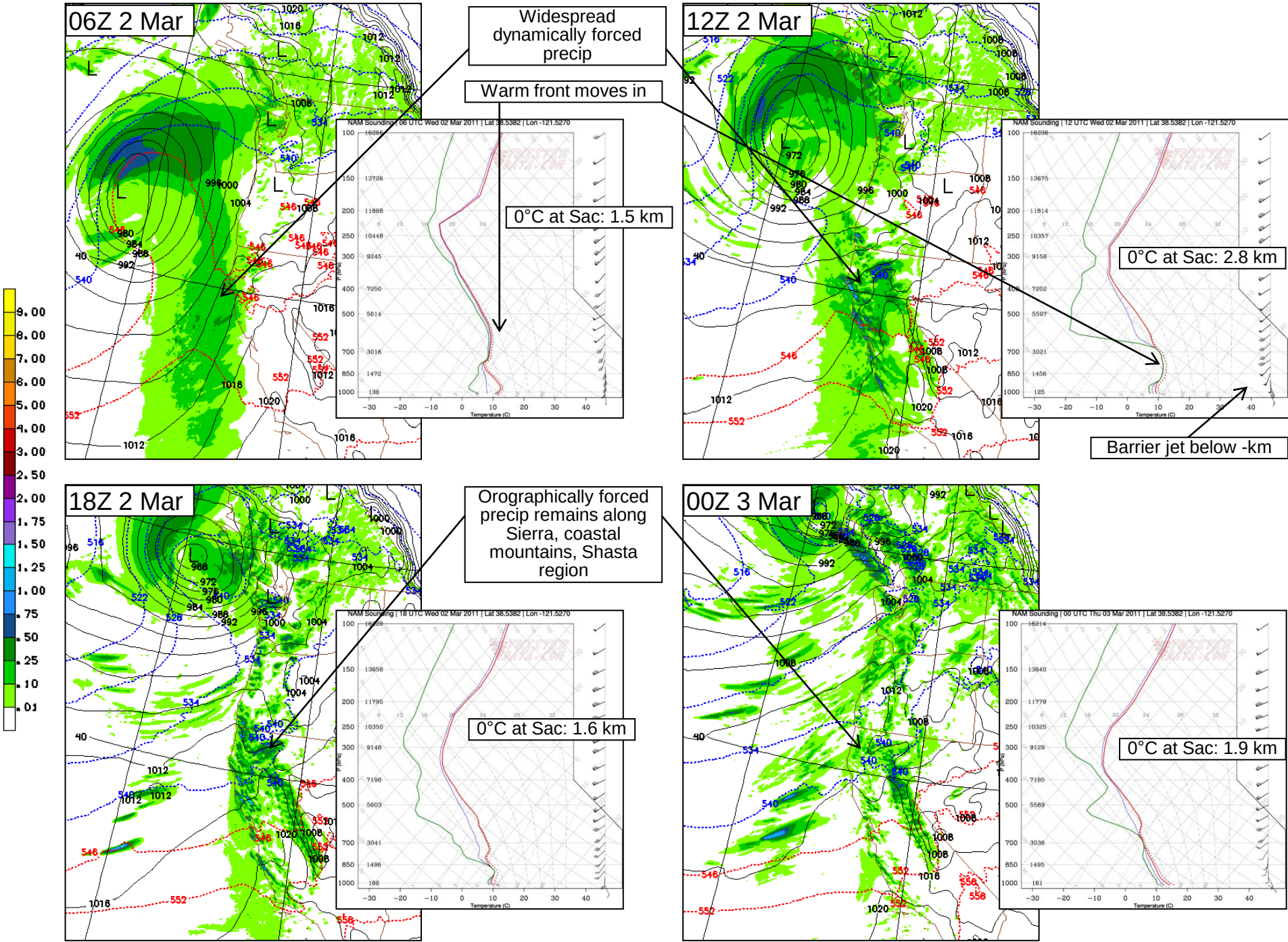
Dry conditions aloft; Moistening in lowest 1 km



Short-range synoptic-scale outlook: 00Z 2 Mar – 00Z 3 Mar

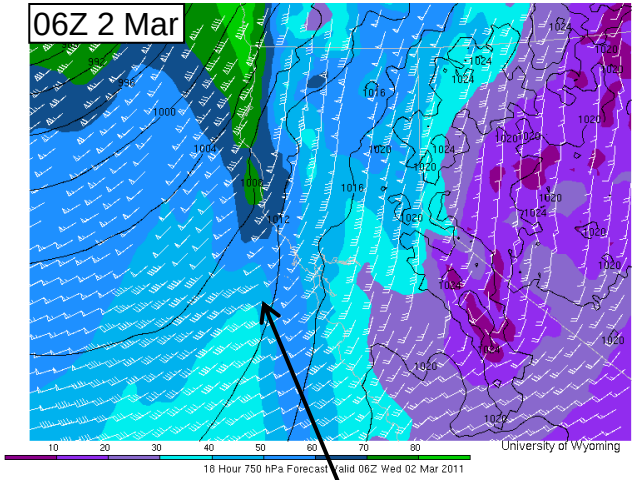


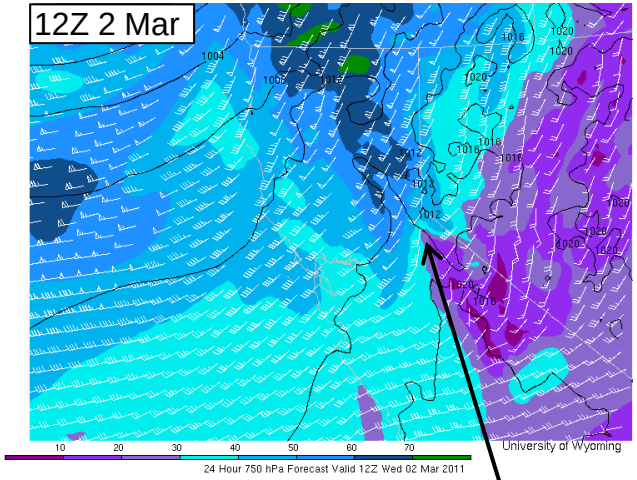
MSLP, thickness, precip

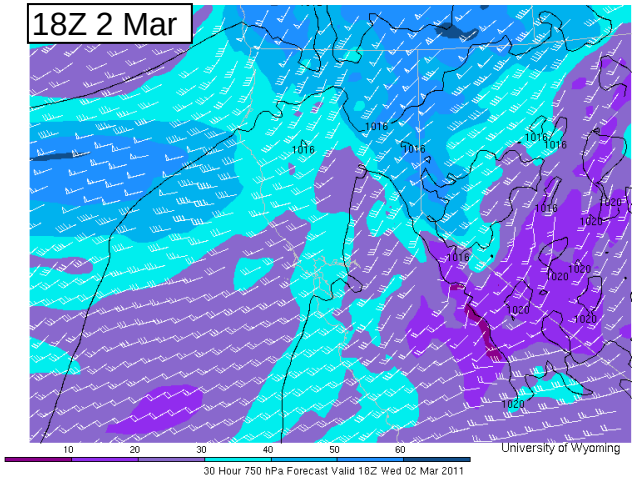


Short-term low-level wind outlook from NAM

750 hPa (~2.5 km) winds





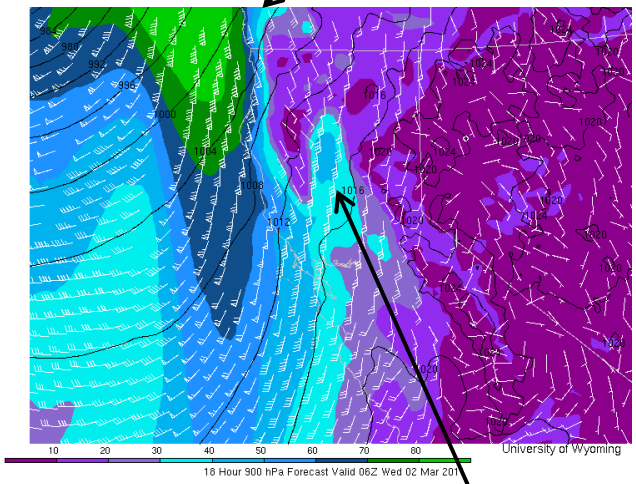


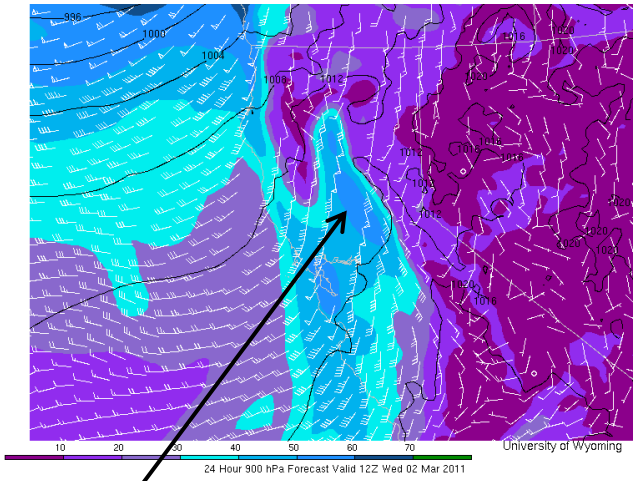
Midlevel flow at veers to SW

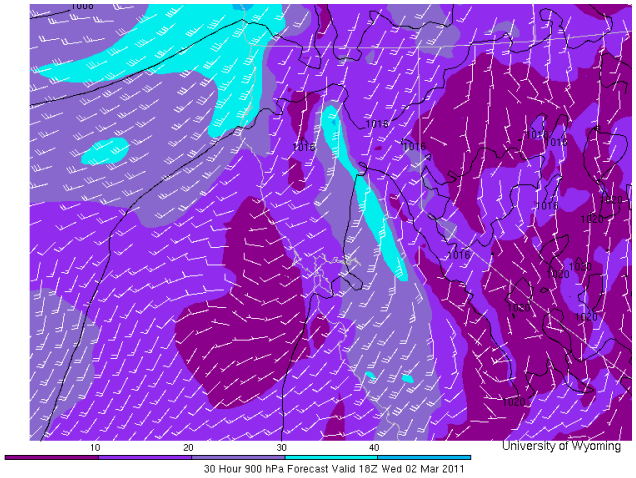
Very strong southerly flow as system nears coast

Mid/low-level SW flow favors continued orographics along coastal mountains and N Sierra

900 hPa (~1 km) winds

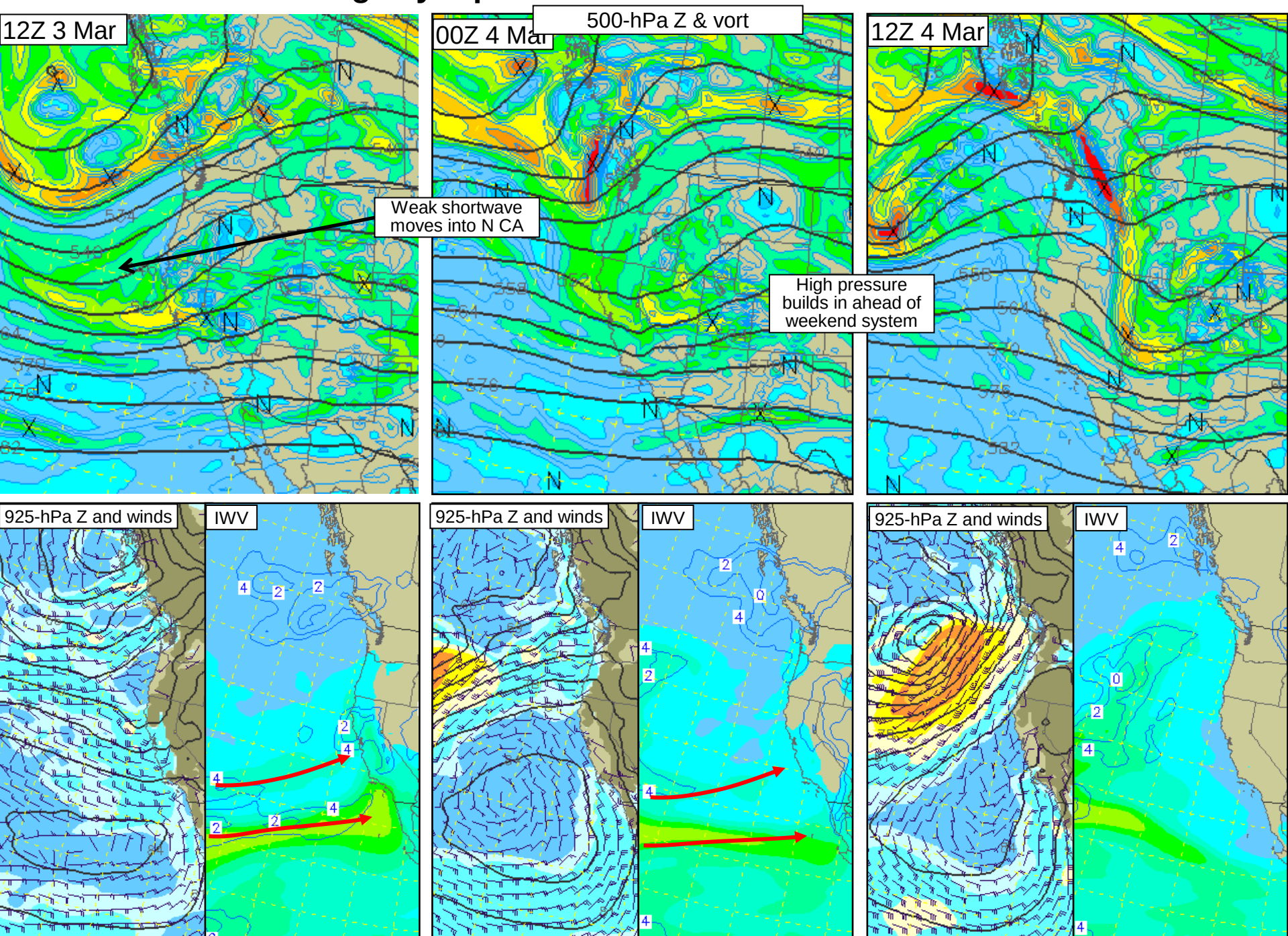




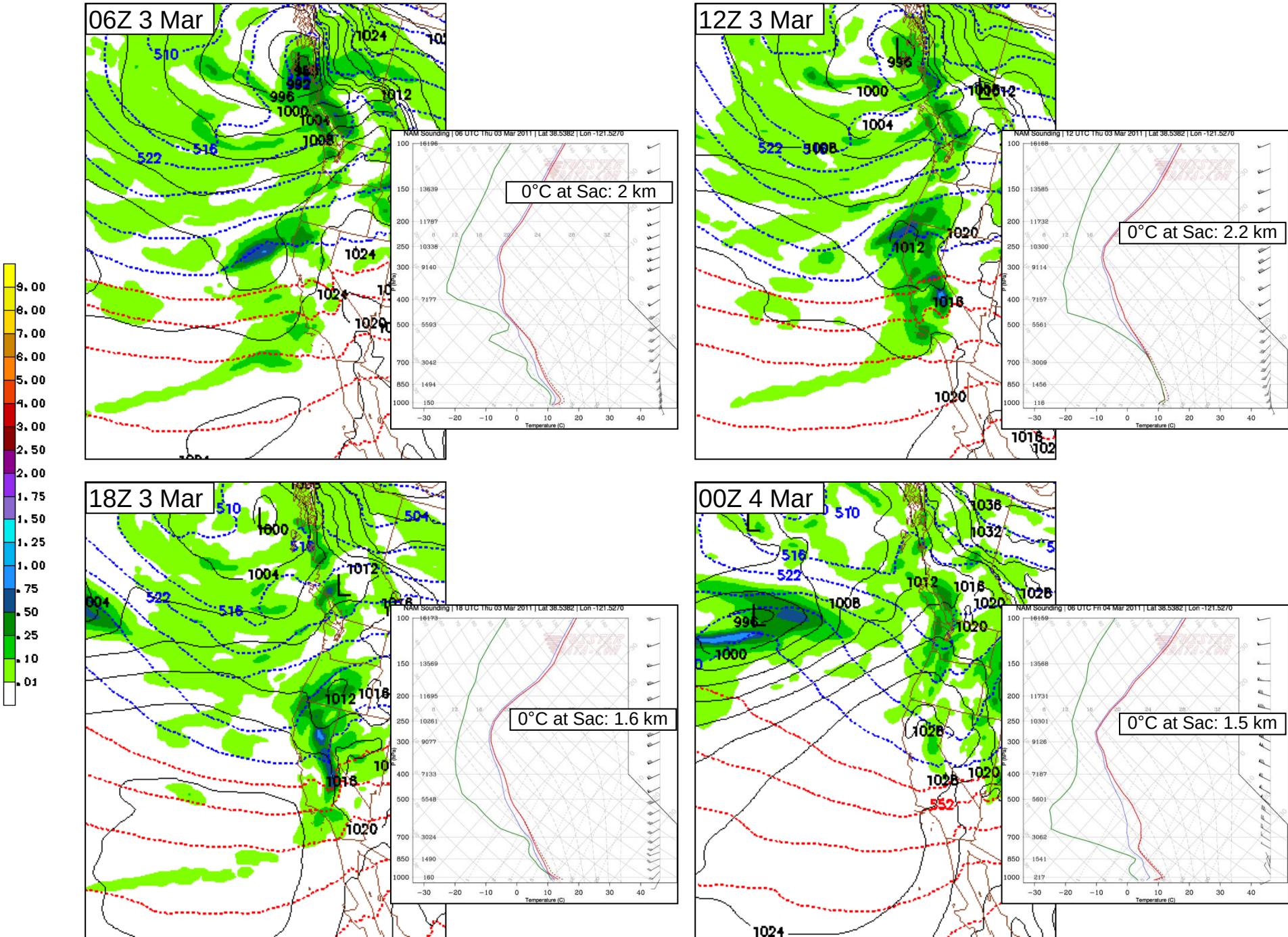


>40 kt barrier jet forms

Short-range synoptic-scale outlook:12Z 3 Mar –12Z 4 Mar

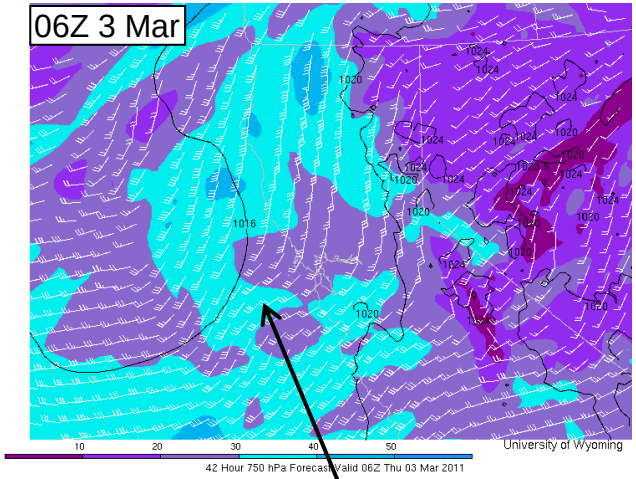


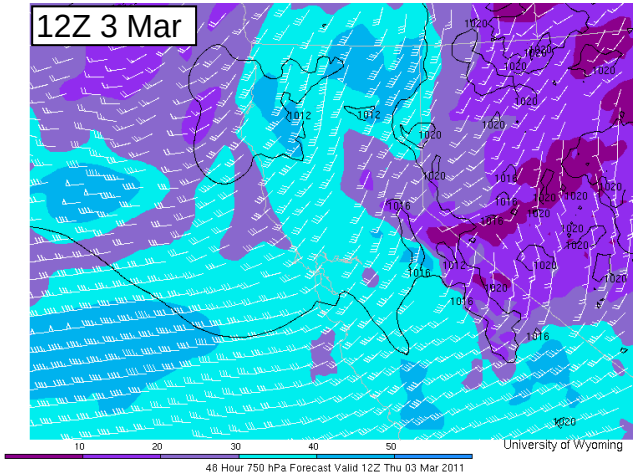
MSLP, thickness, precip

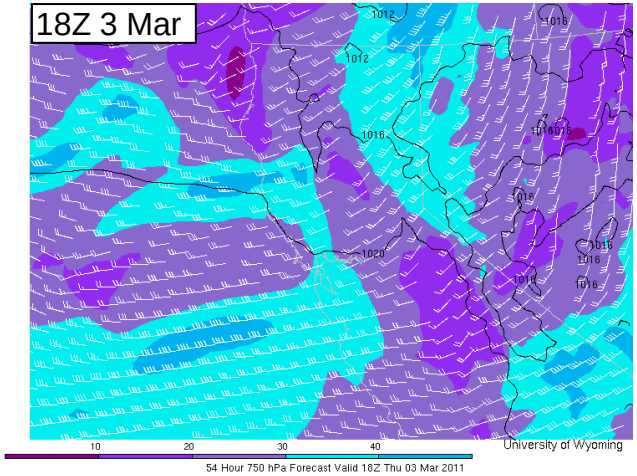


Short-term low-level wind outlook from NAM

750 hPa (~2.5 km) winds



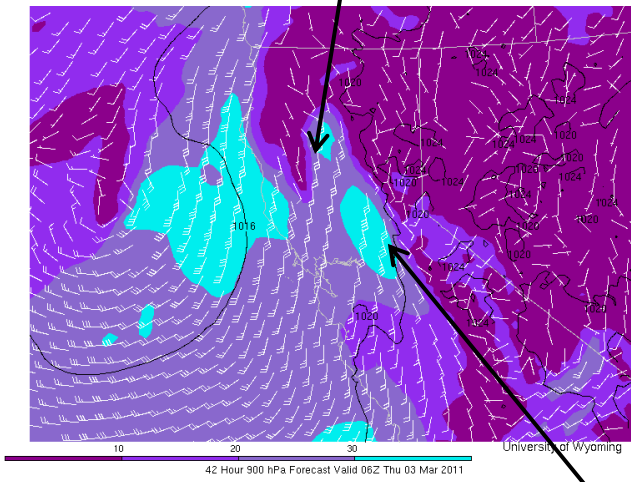


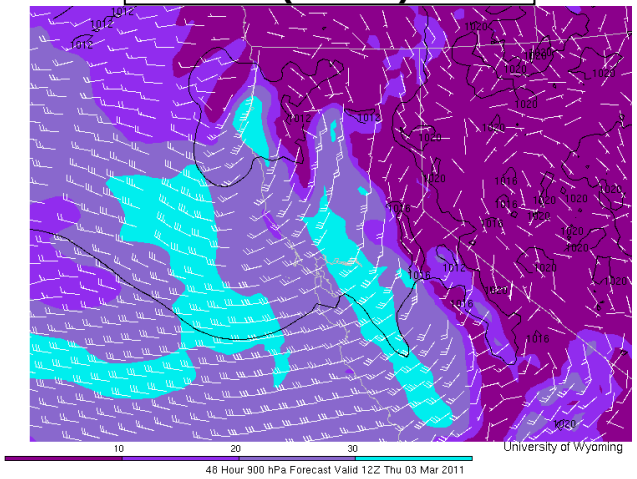


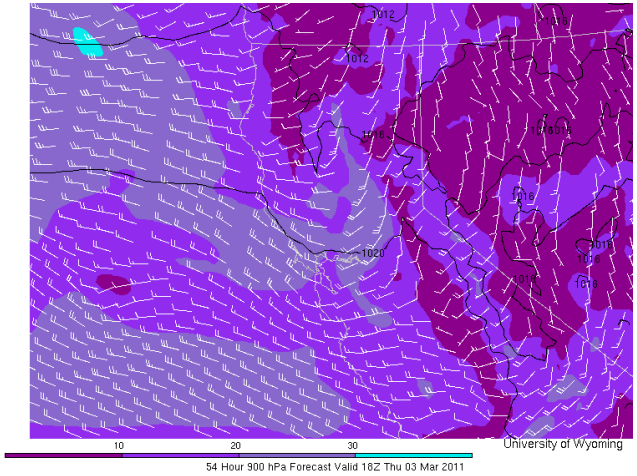
Strengthened southerly flow ahead of weak system

Midlevel flow at veers to SW as system moves through, favoring continued orographics

900 hPa (~1 km) winds

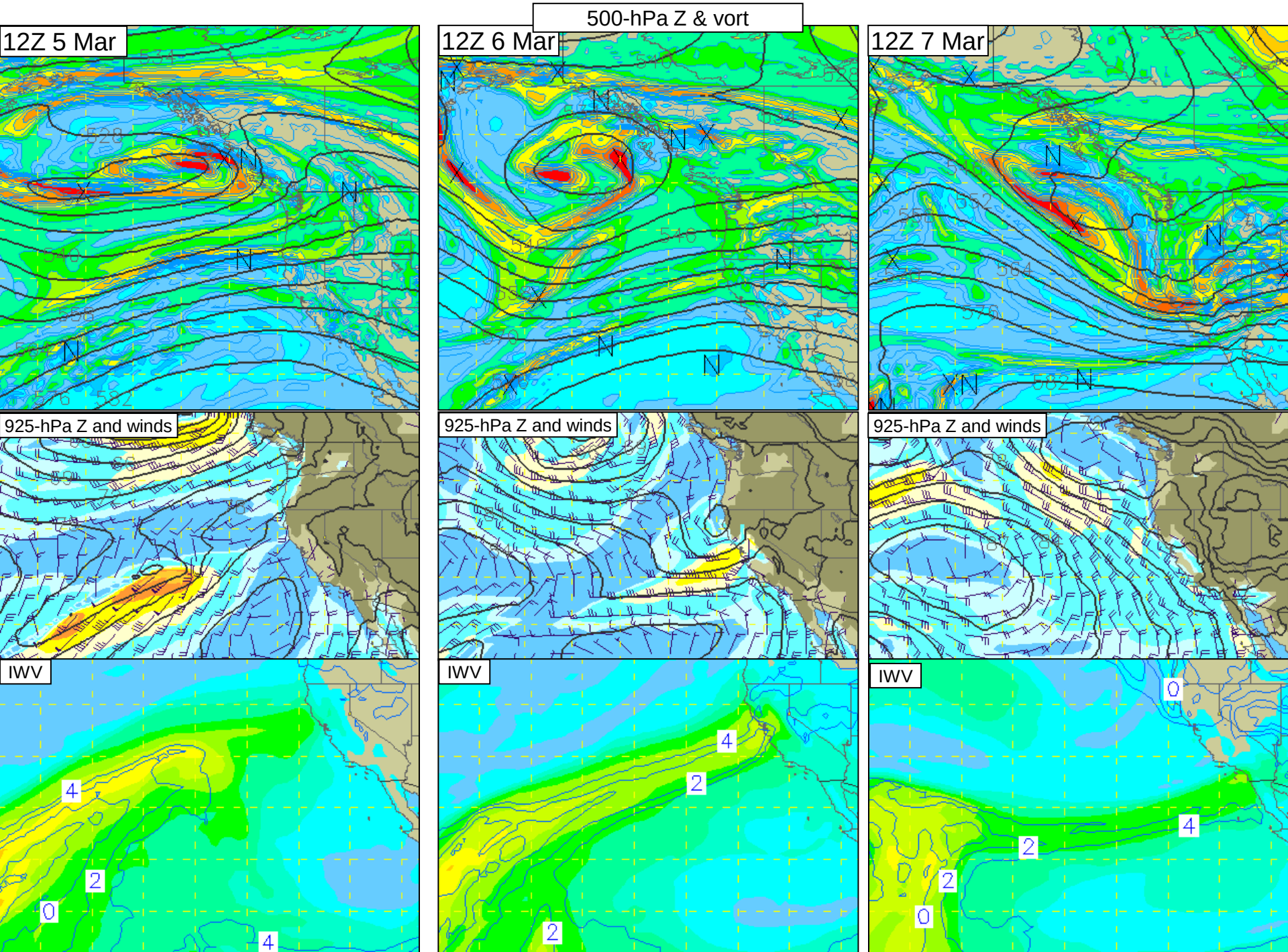




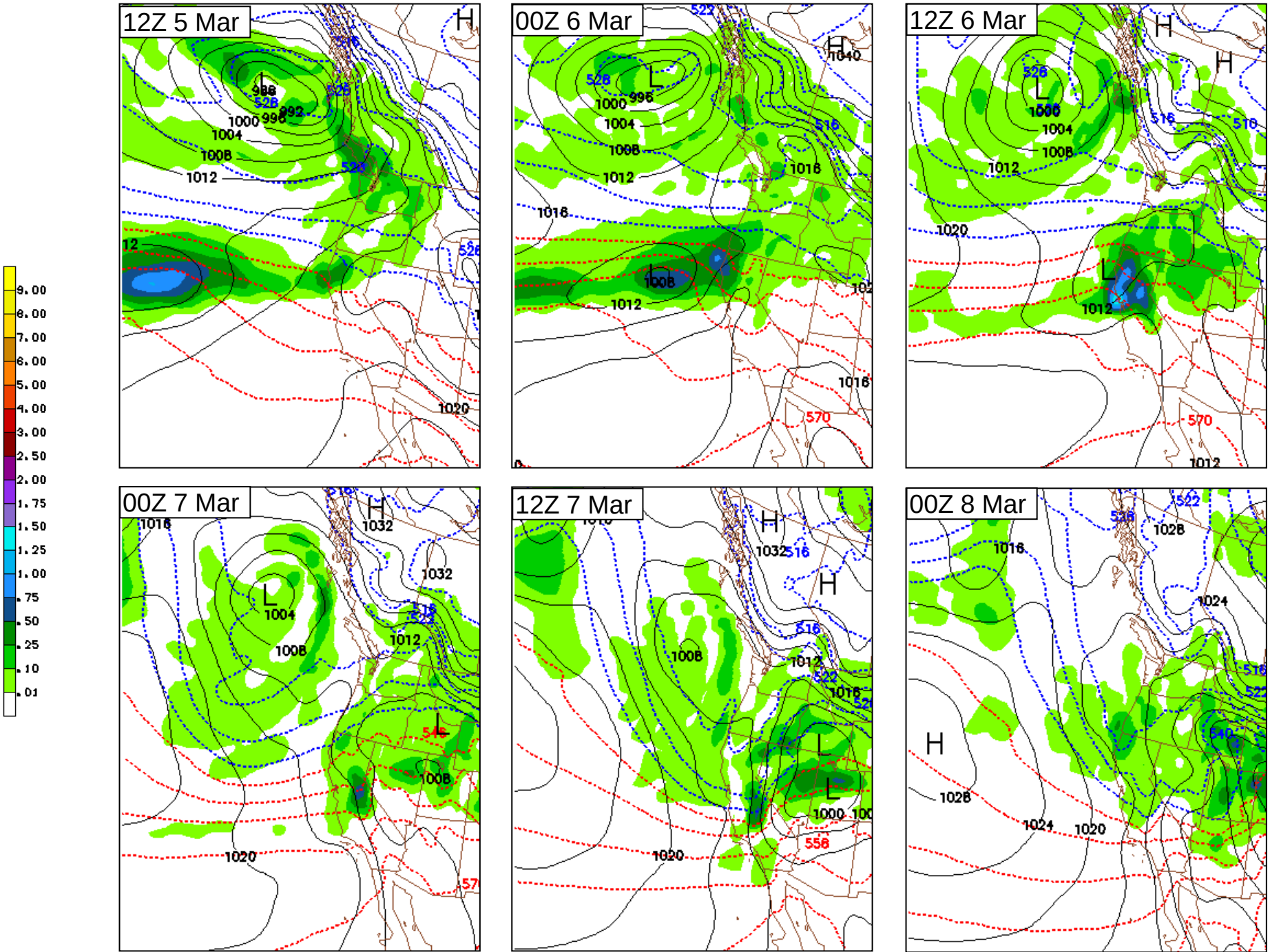


>30 kt barrier jet forms

Next system to impact CA: 5-7 Mar

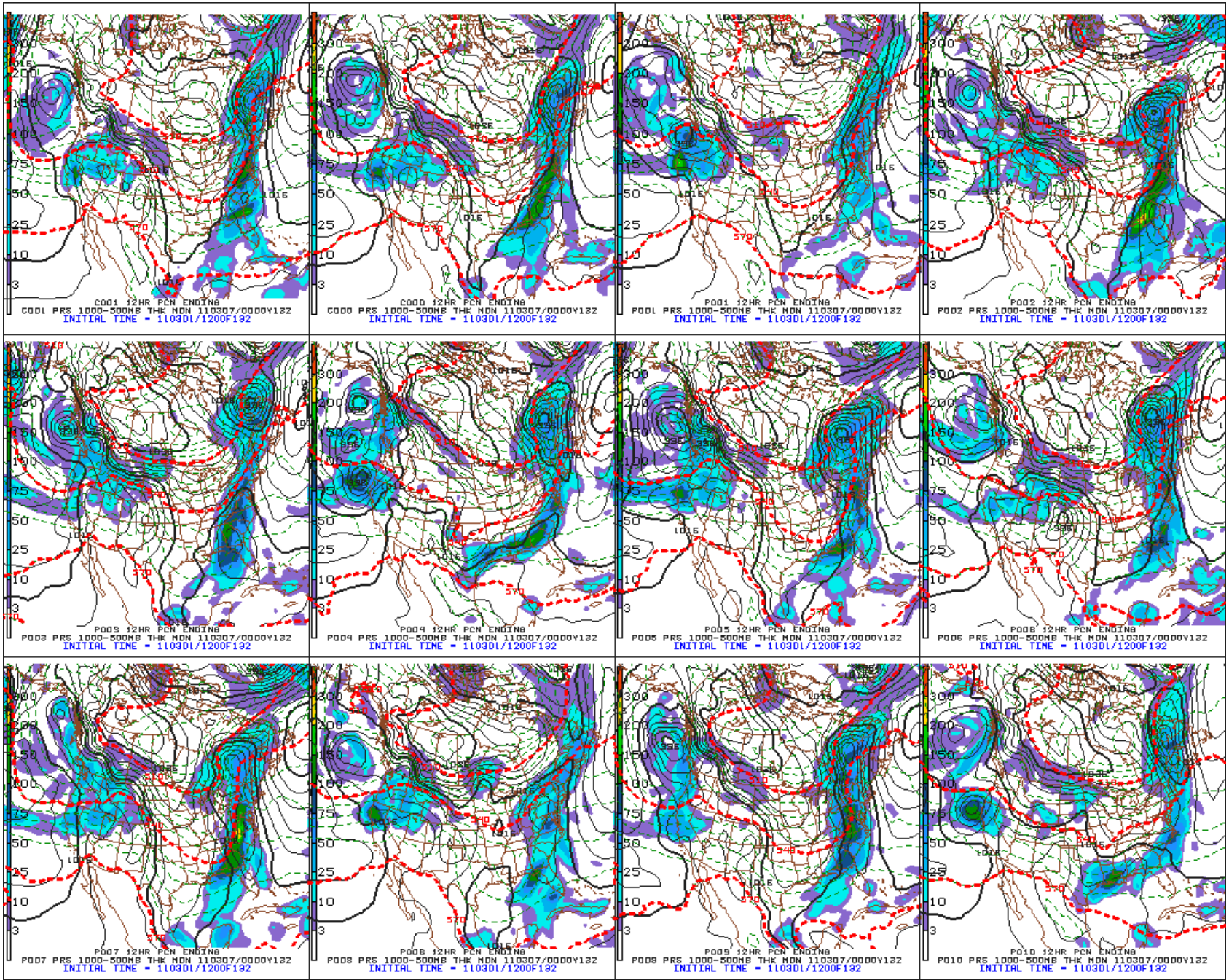

500-hPa Z & vort
12Z 5 Mar
12Z 6 Mar
12Z 7 Mar
925-hPa Z and winds
925-hPa Z and winds
925-hPa Z and winds
IWV
IWV
IWV

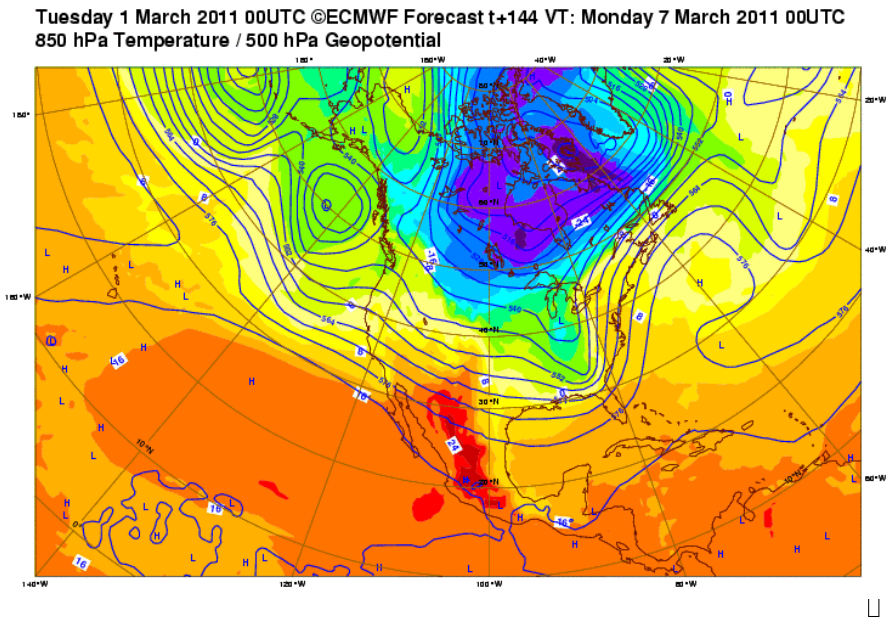
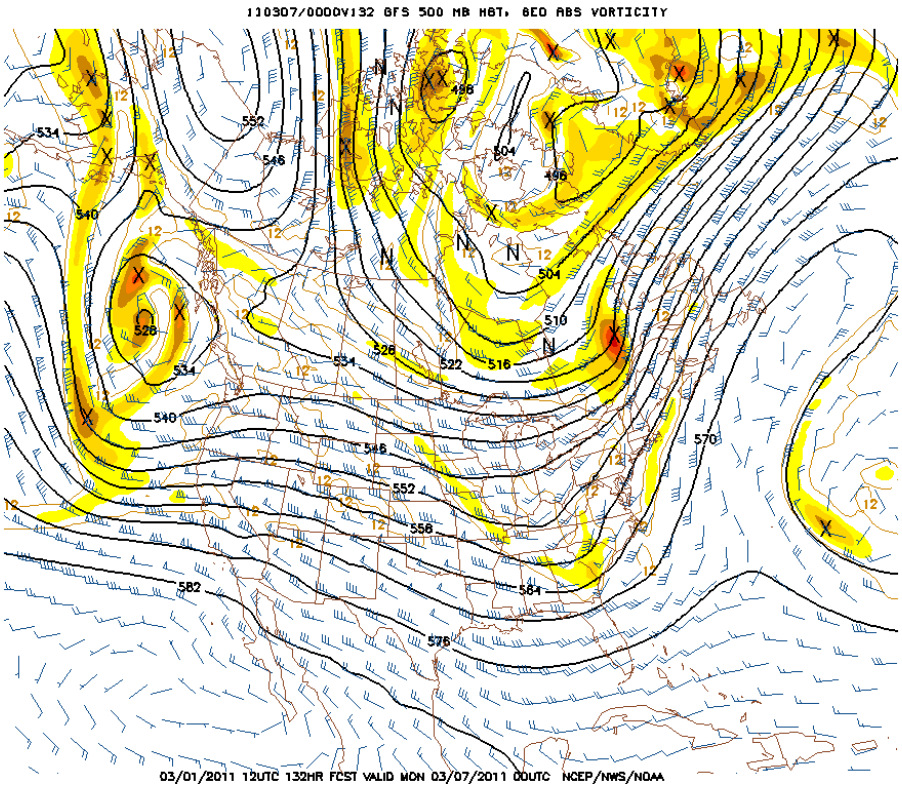
MSLP, thickness, precip



GFS ensemble 00Z 7 Mar

MSLP, thickness, precip



Last night's EC solution at 00Z 7 Mar

Today's GFS solution at 00Z 7 Mar