

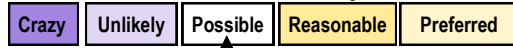


Commodity Weather Group

European Ensemble Round-Up Monday December 4, 2017

European 12z Ensemble

Model Believability



6-10 Day

11-15 Day

**Demand Loss (-11 HDDs)
Weaker Intensity Cold Period
End of Period Breakdown Still There**

Big Picture:

- Warmer changes for 6-10 day seem overdone on European as pattern analogs still favor stronger colder period into next week with optimized flow
- 11-15 day still very similar to morning outlook, but pattern does break down at end with warmth flooding back through Midwest and South– this could progress 11-15 day warmer tomorrow if holds

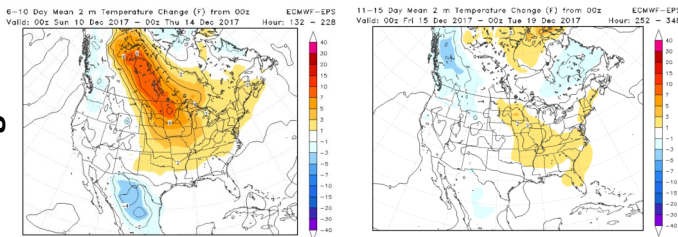
Technical Notes:

- Big story continues to be breakdown of –EPO pattern over Gulf of Alaska area with reduction in +PNA intensity– this flattens flow and sends warmer air eastward by second half of 11-15
- Main concern is European moving too quickly and could pull back bit tonight

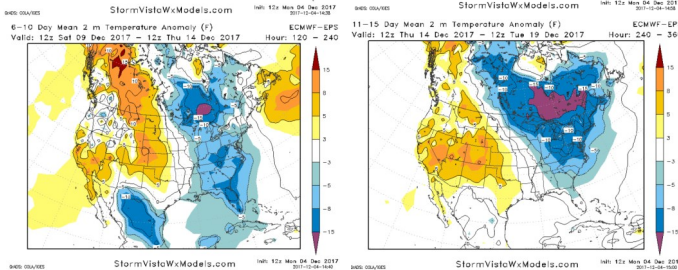
Forecaster Views:

- **Cannot Discount It:** Did not agree with warmer 6-10 day—feels like that is too warm yet—but breakdown in later 11-15 day moved forward on this run and gaining credibility; hunch is that timing may be too fast but a warmer interlude seems reasonable by later December into holidays; next big test will be durability of warmer shift– extended guidance has been suggesting only short-lived warmer periods

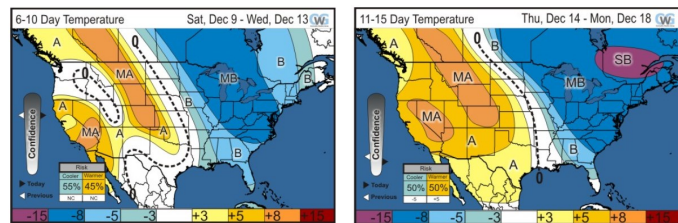
Changes



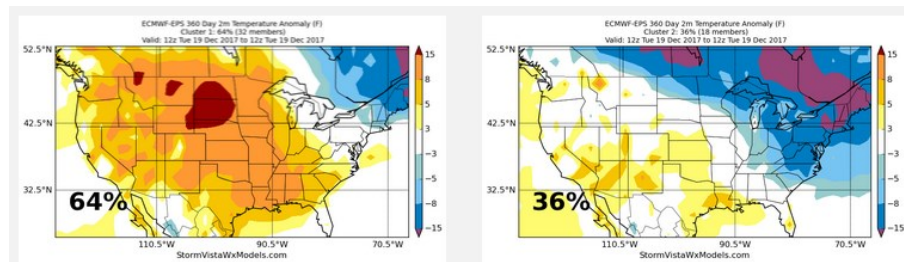
Anomalies



CWG



Day 16 Cluster Options (Surface Anomalies)



Warmer Shift Still Majority– but Down to 64% from 72% Last Night