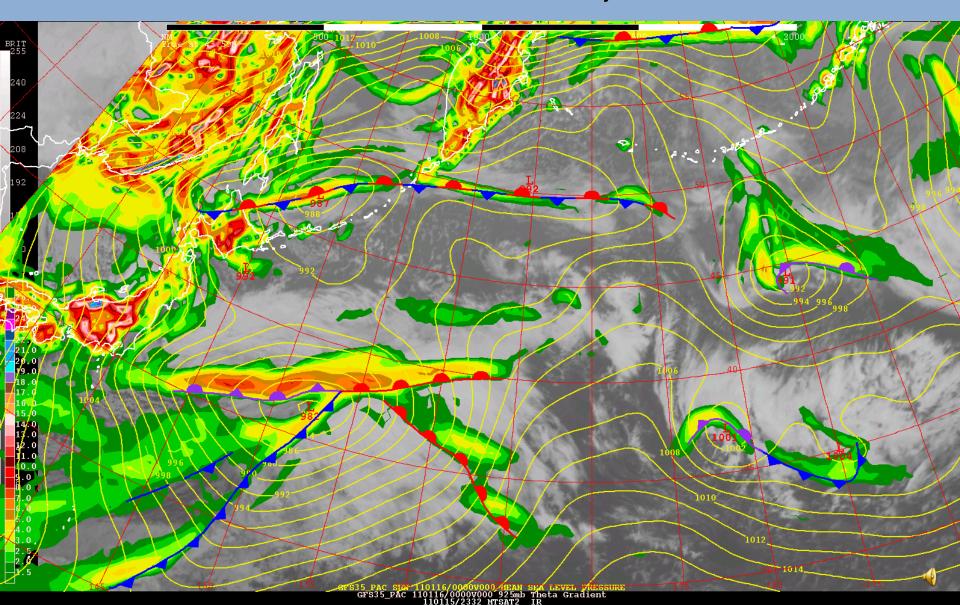
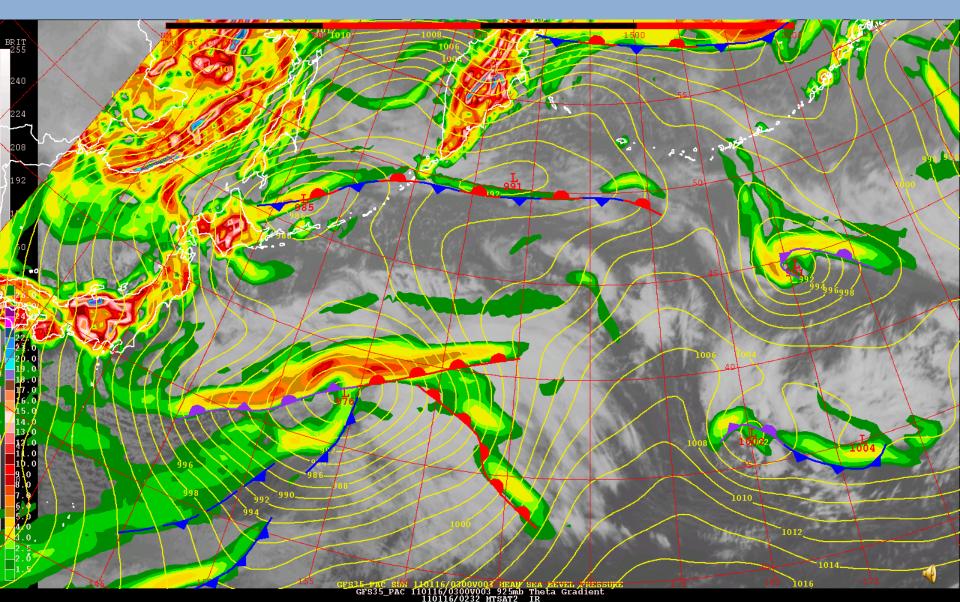
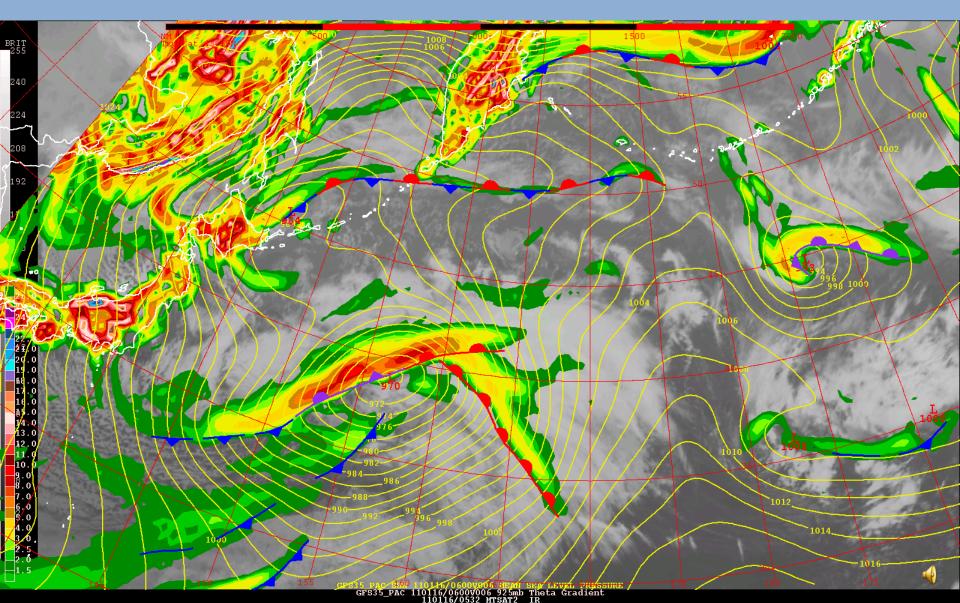
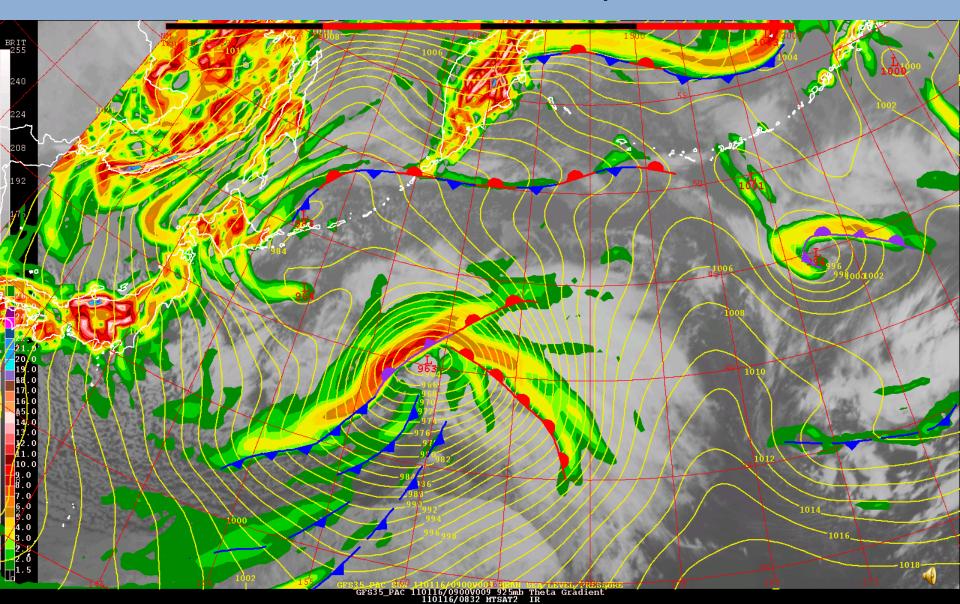
Frontal Evolution of the January 2011 North Pacific Monster Cyclone

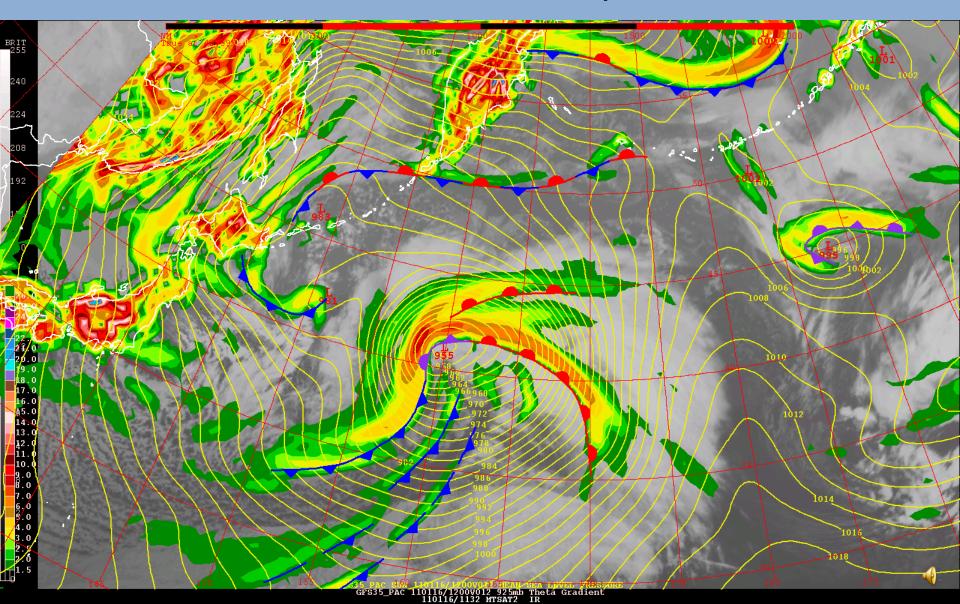
- Use of 925 mb theta gradient from GFS35_PAC
- Evolution of frontal zones
- Key points in frontal evolution
- Rapid intensification in IR and WV imagery

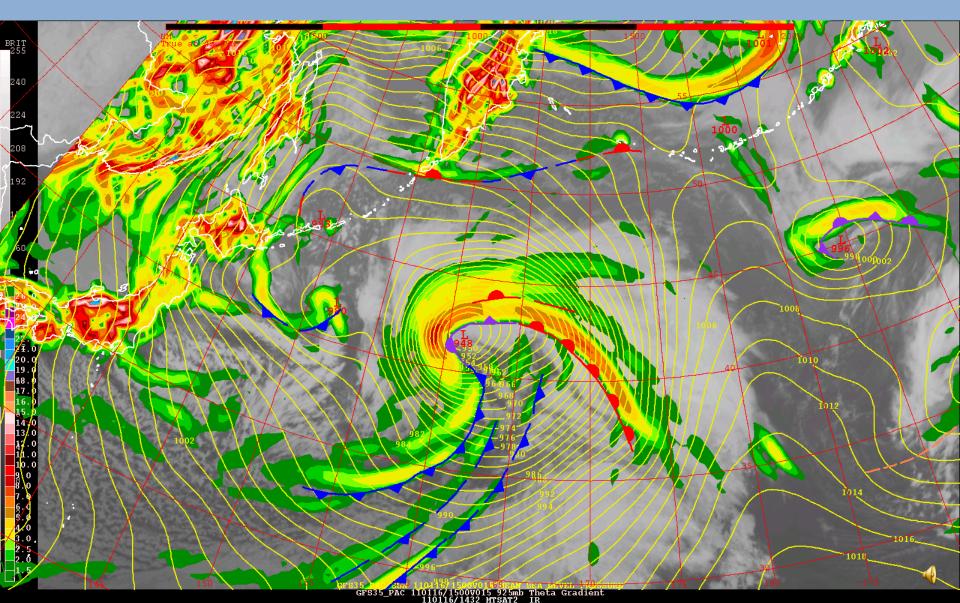


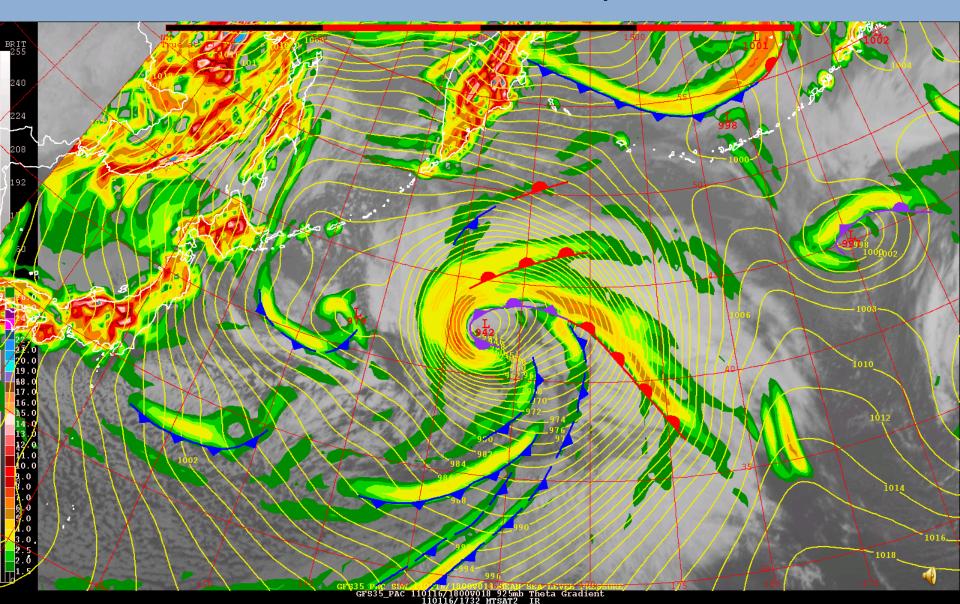


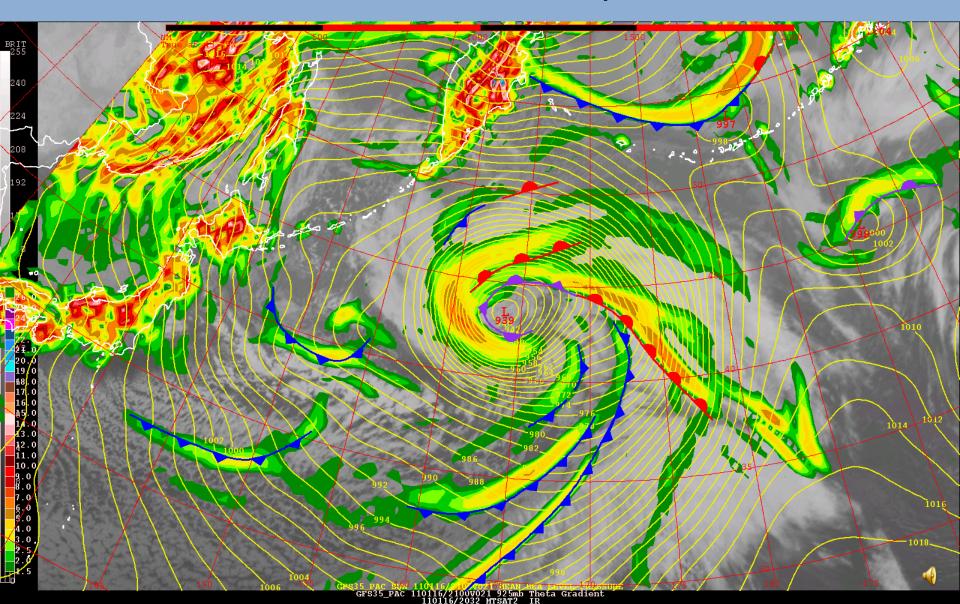


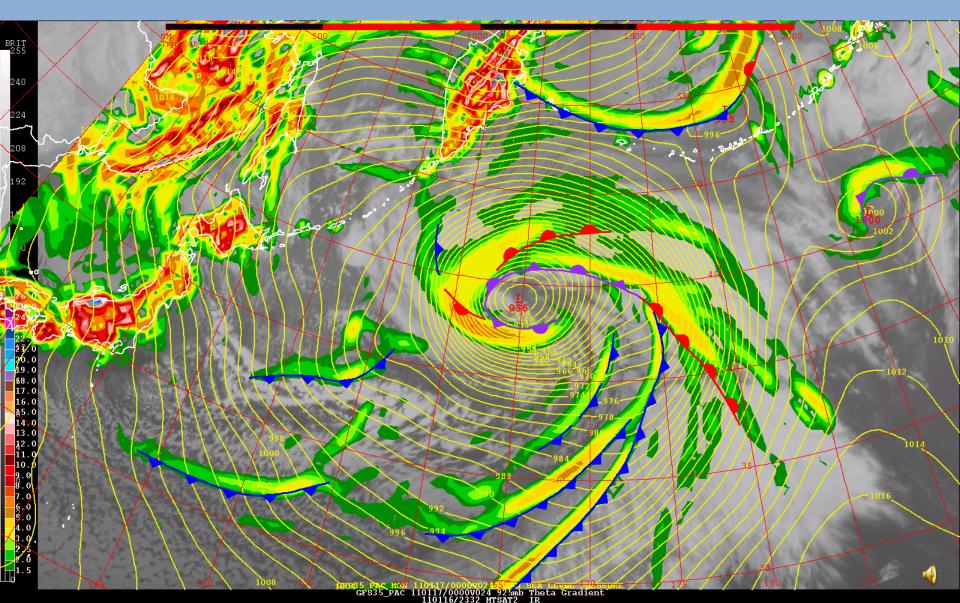


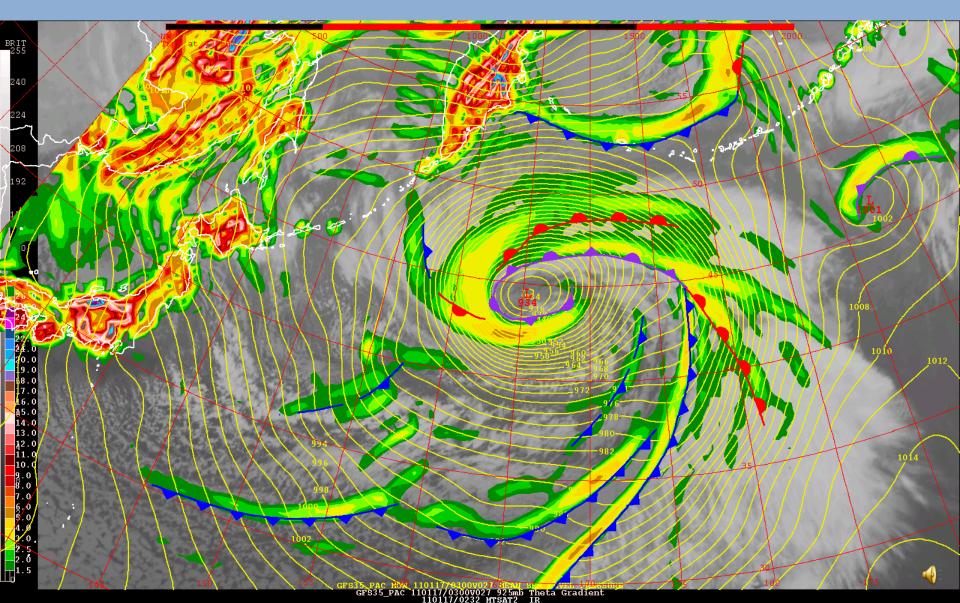


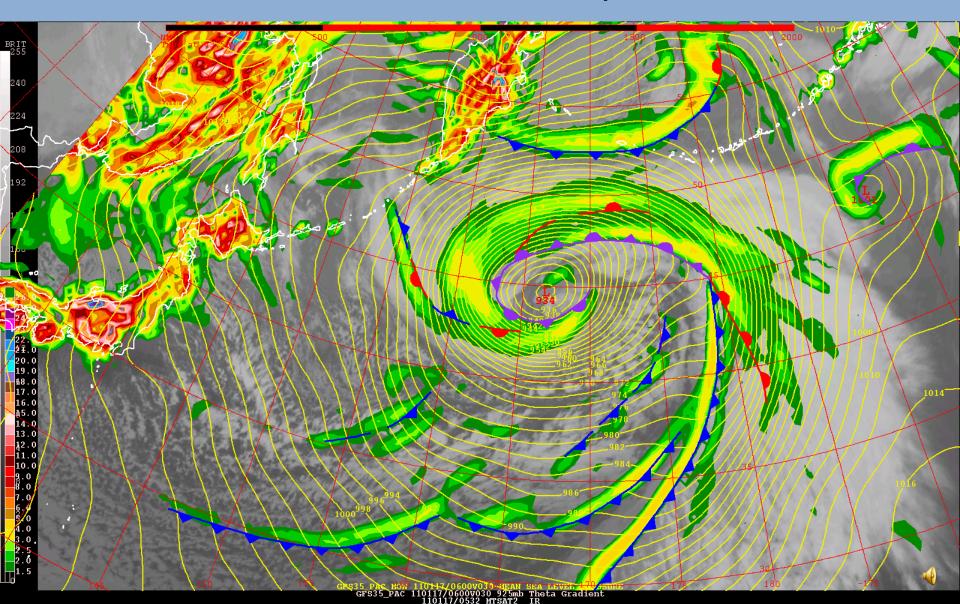


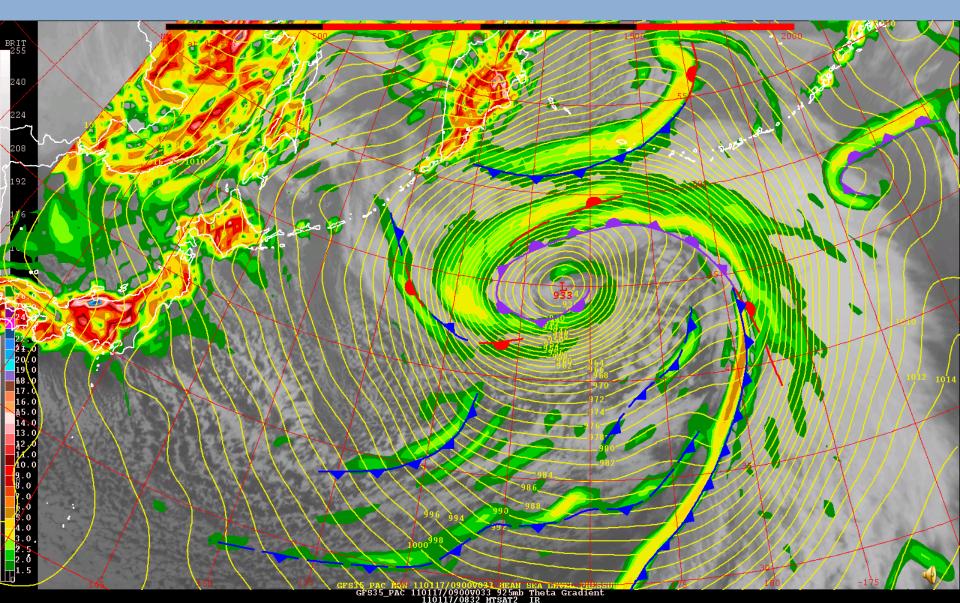


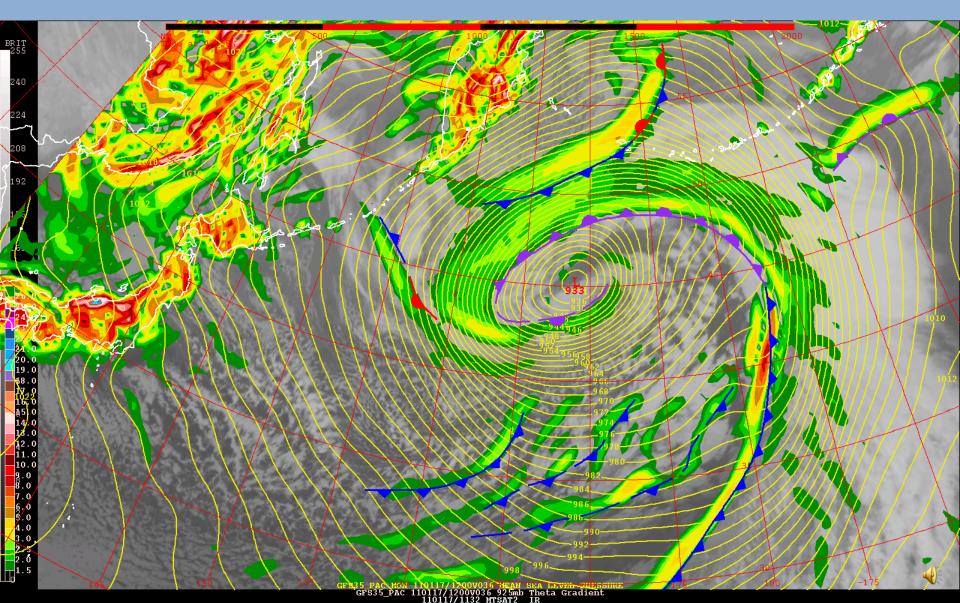


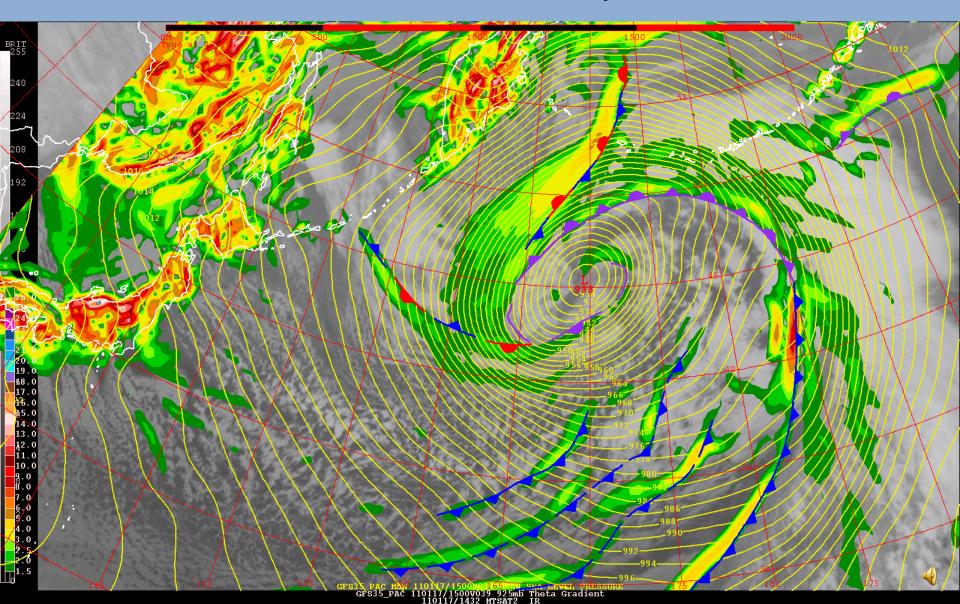


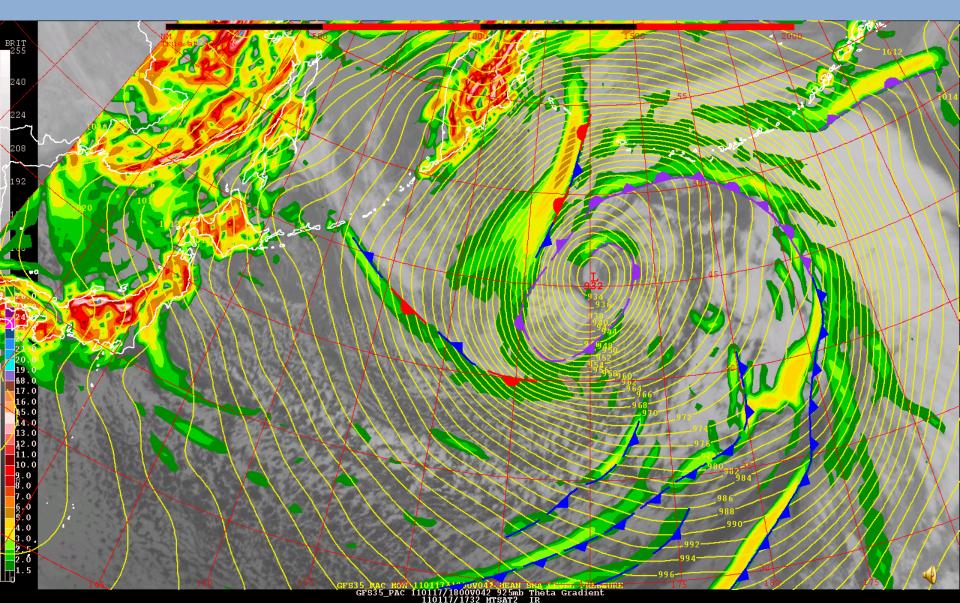


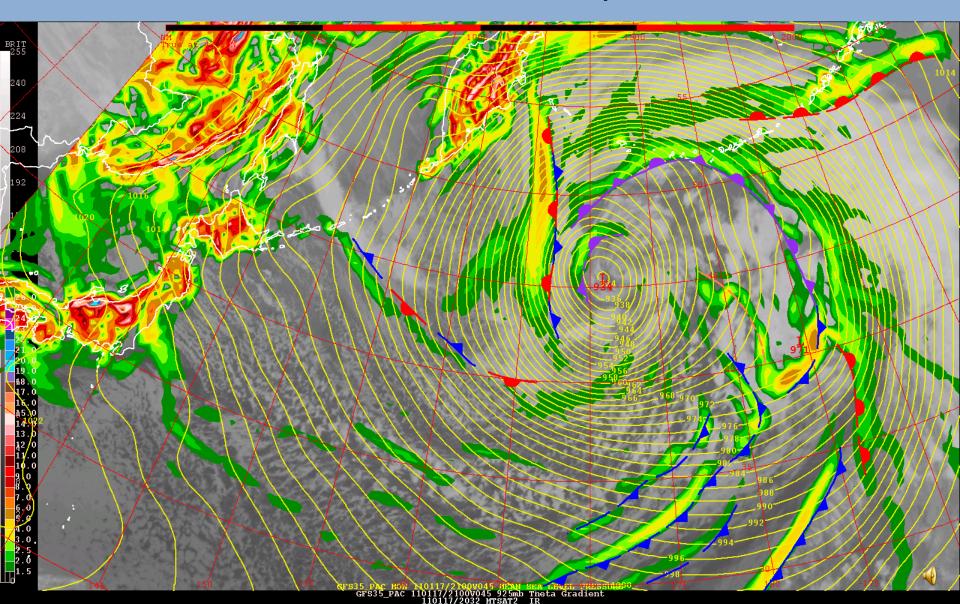


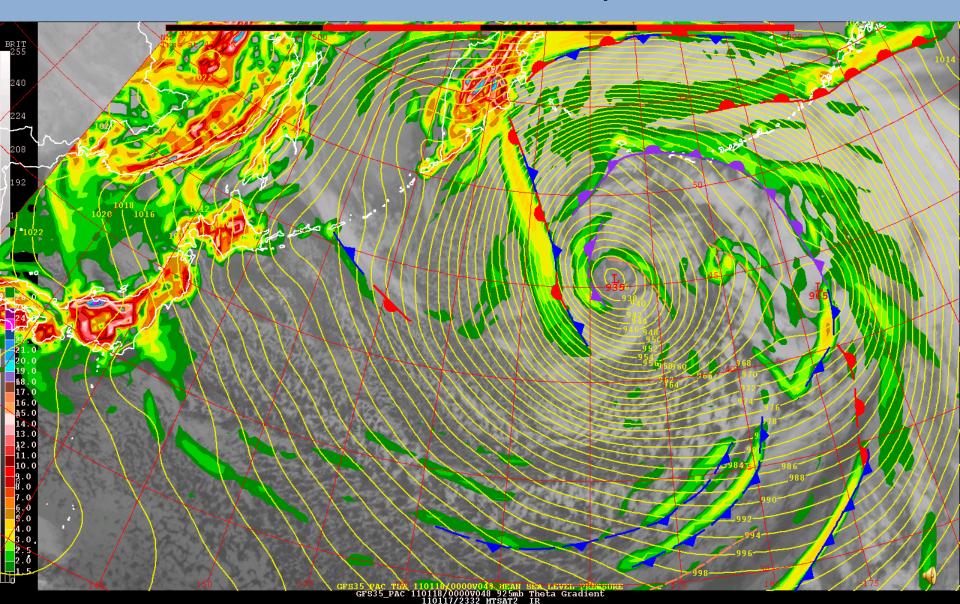


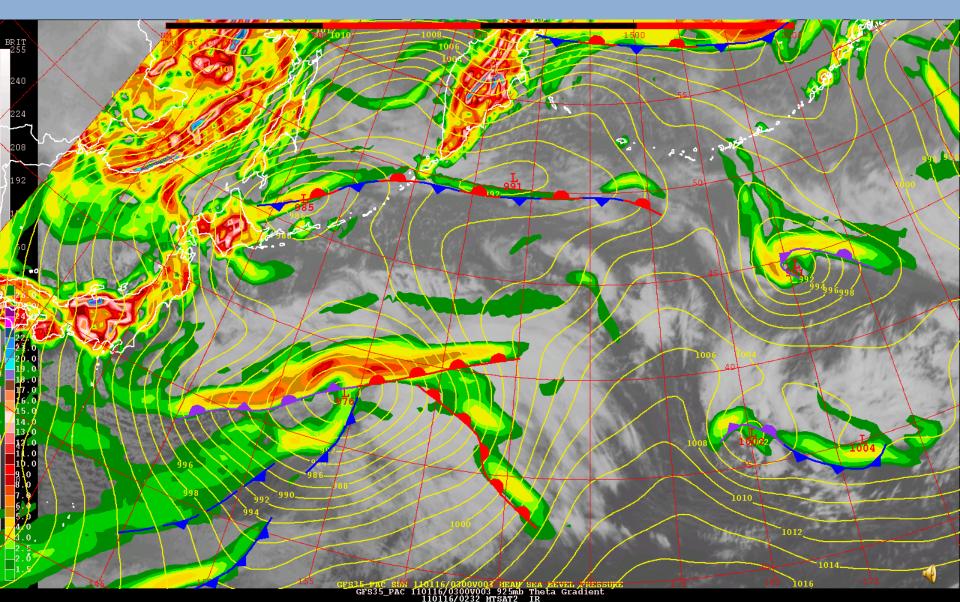


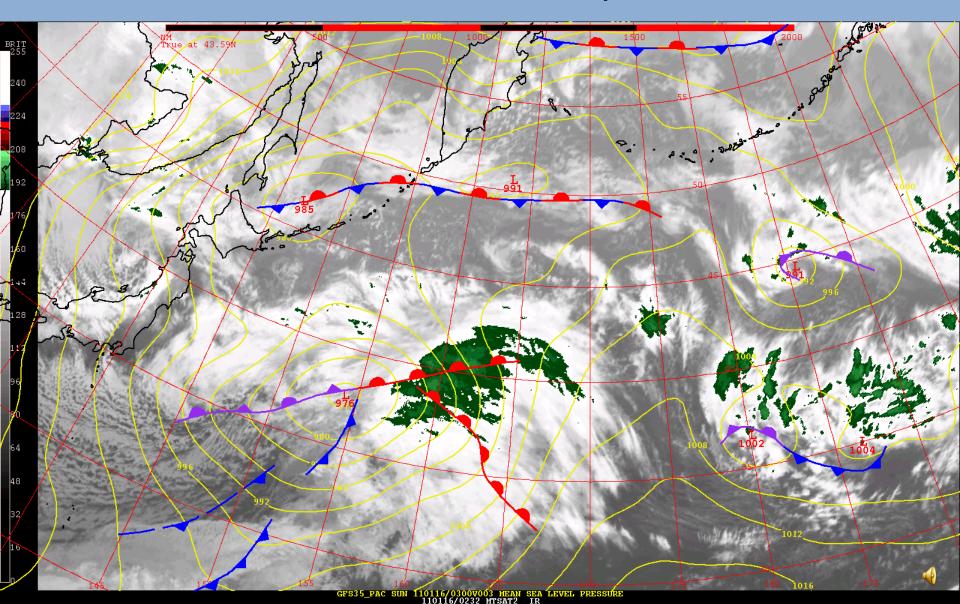


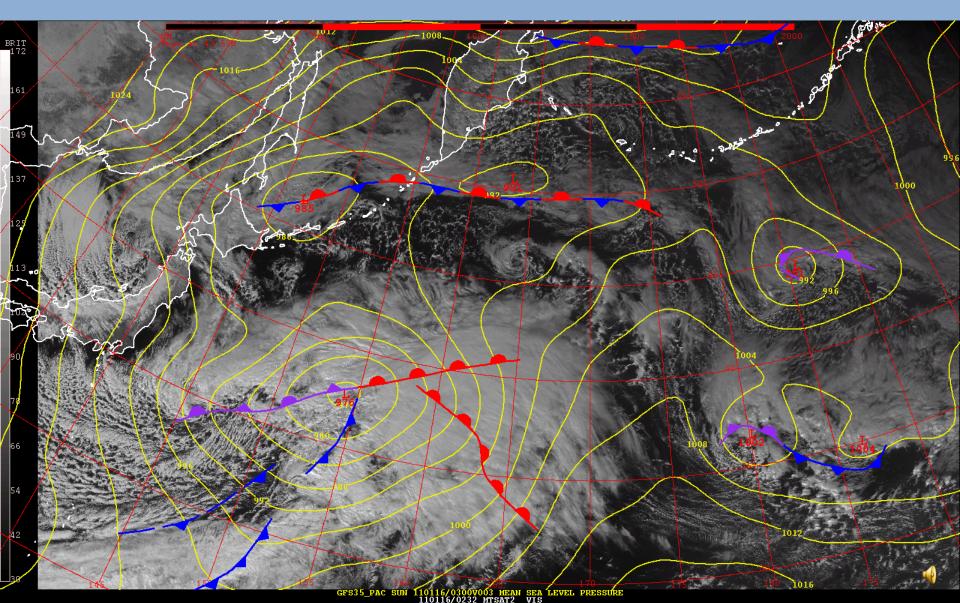


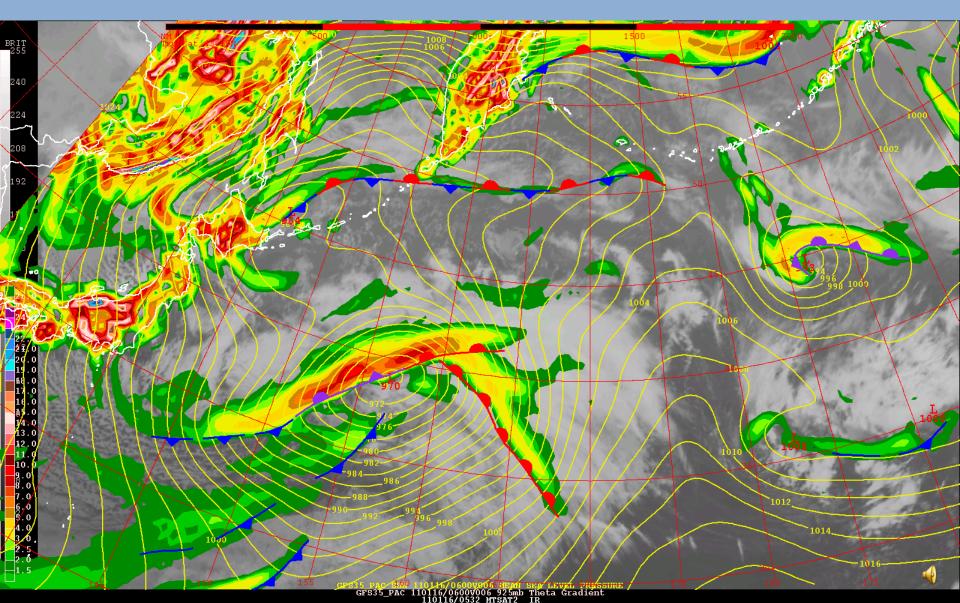


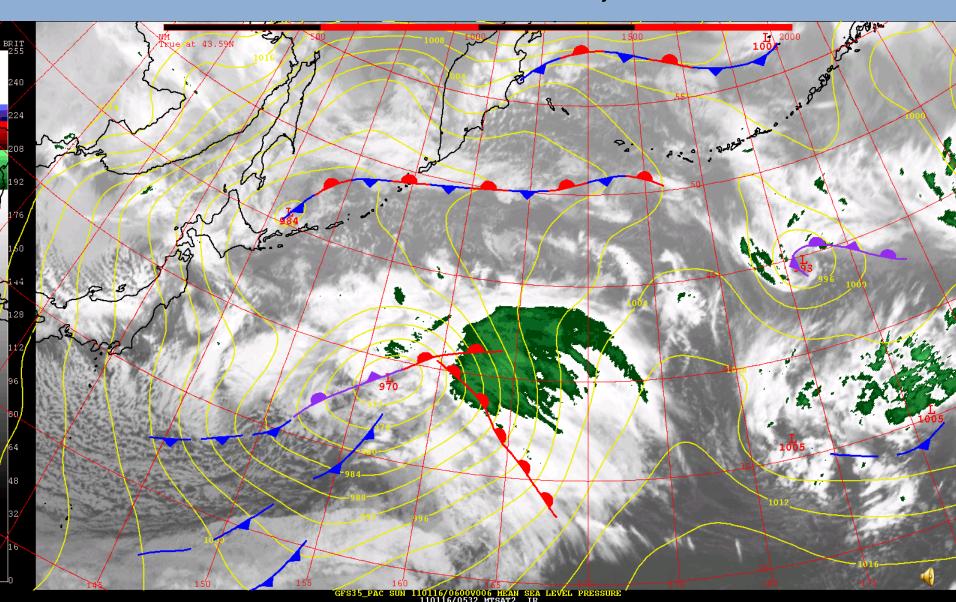


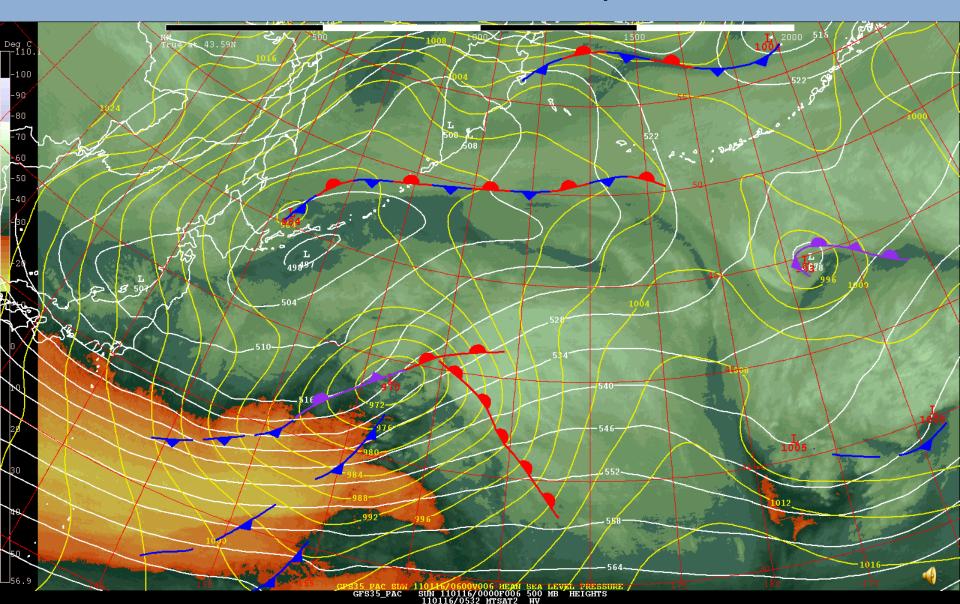


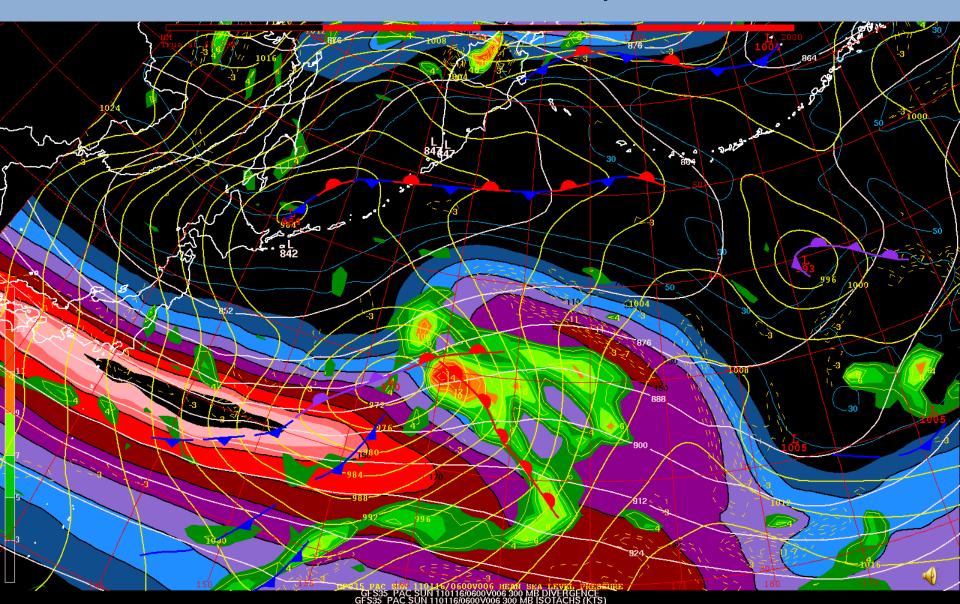


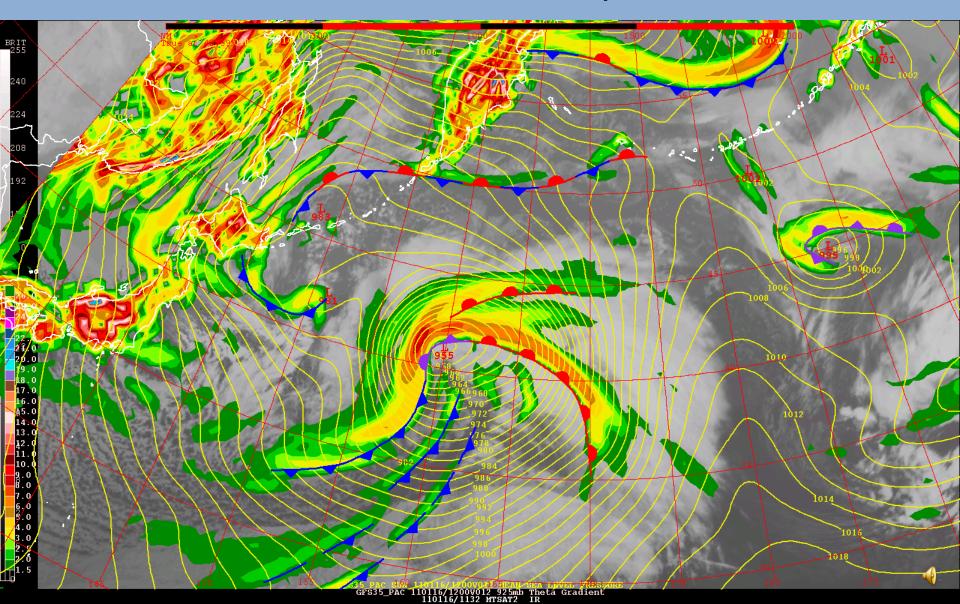


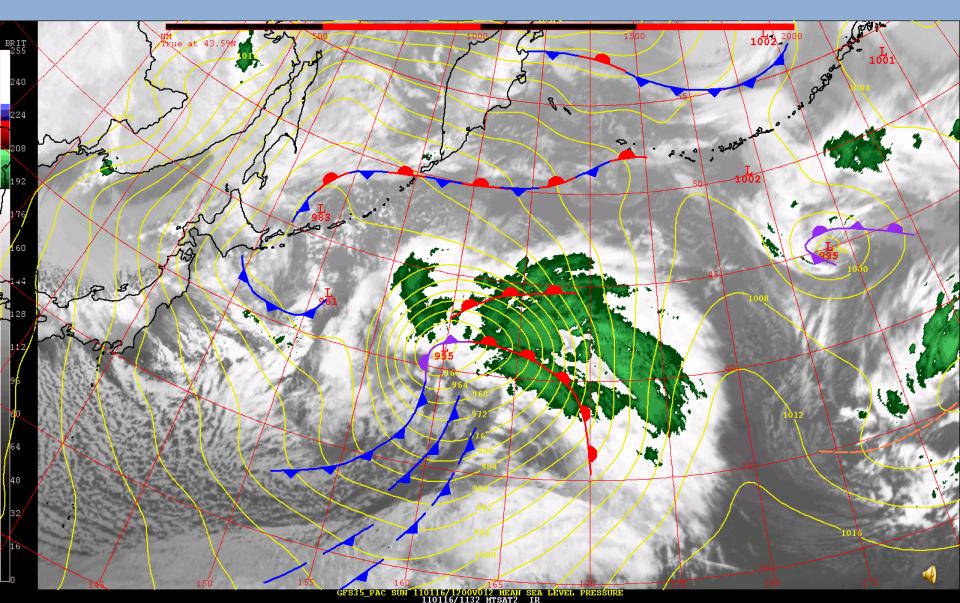


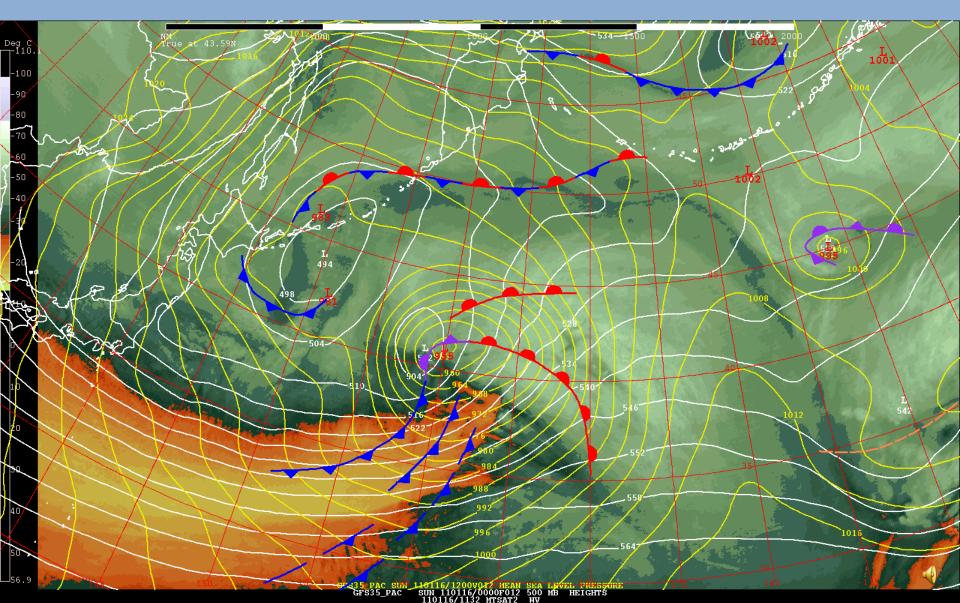


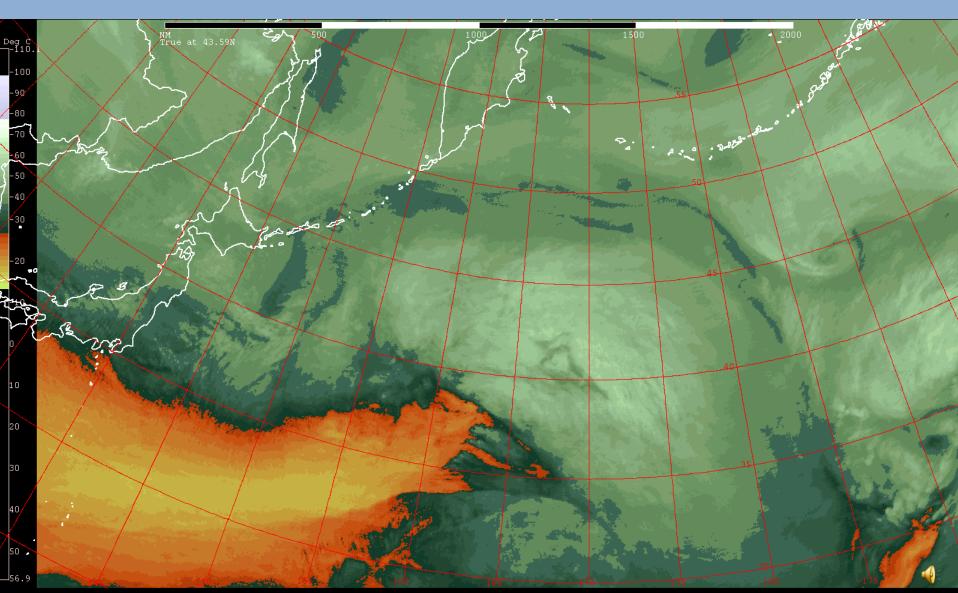


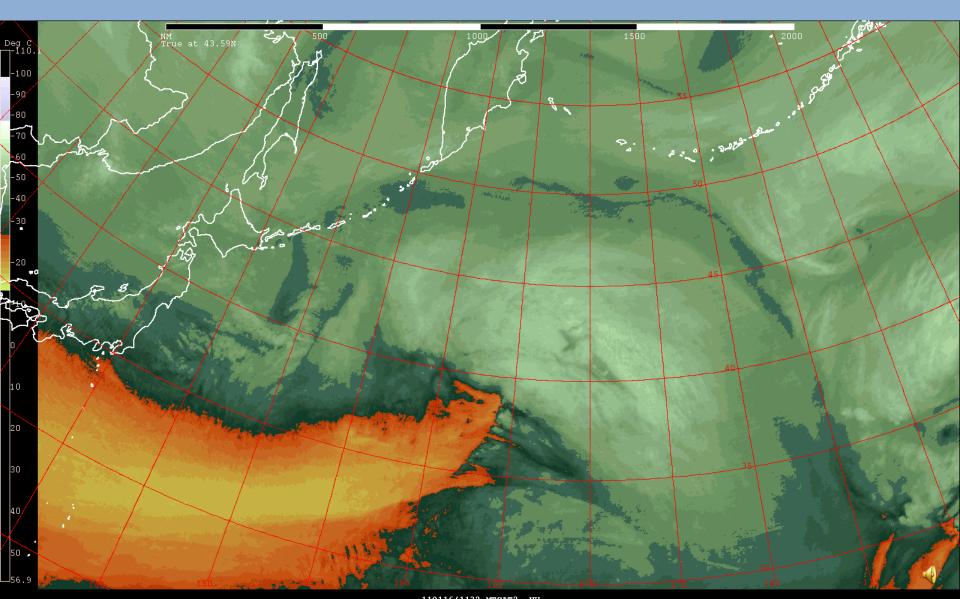


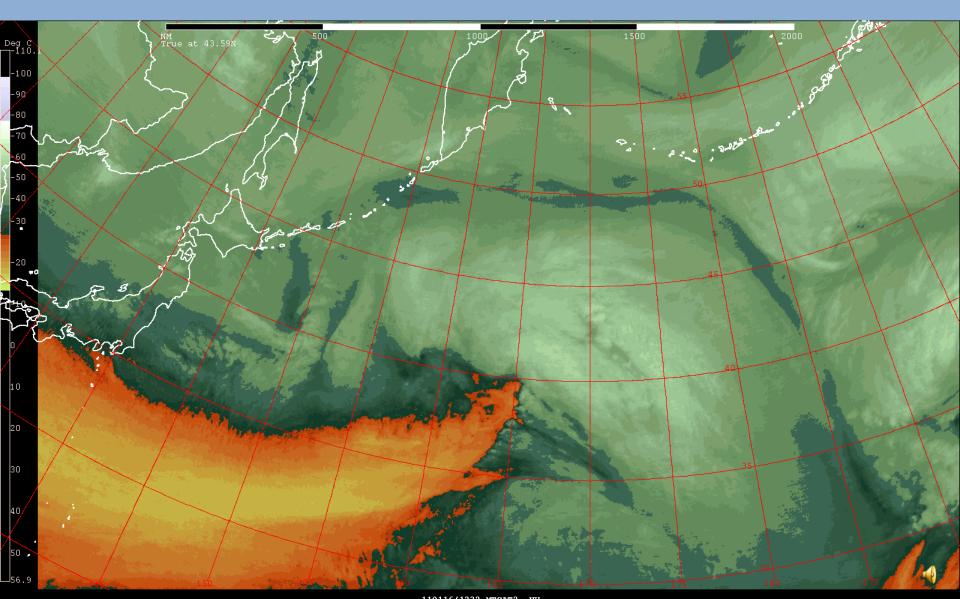


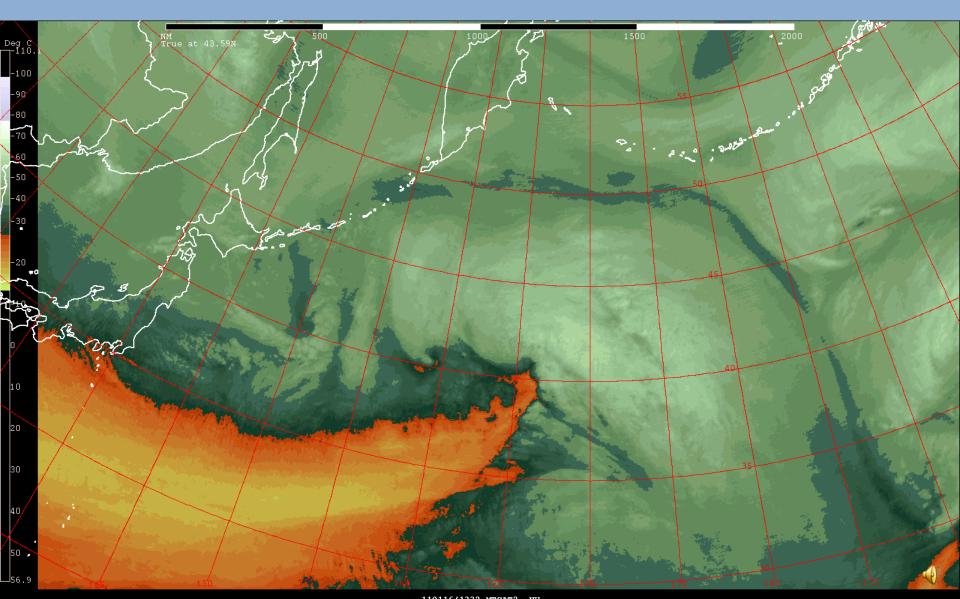


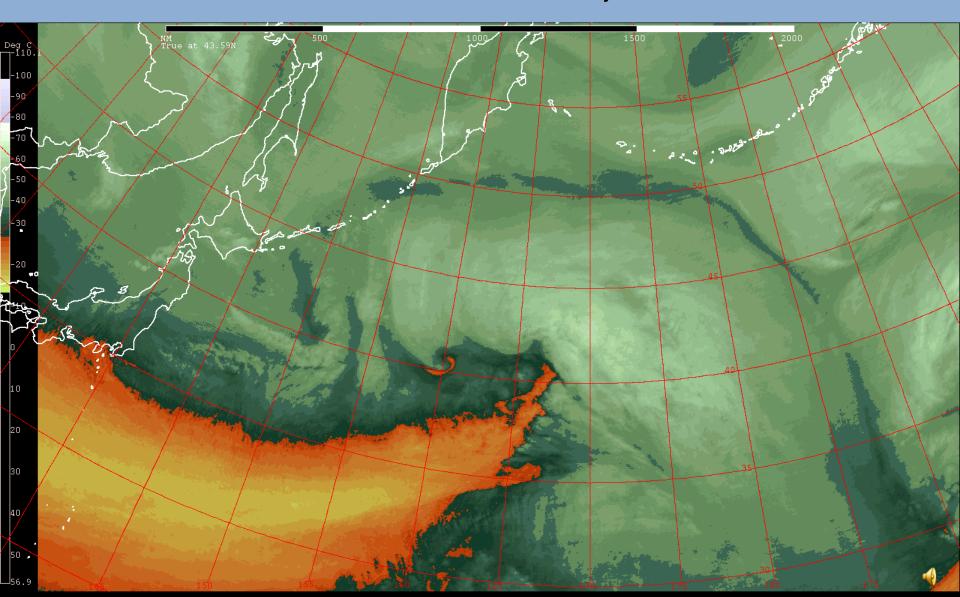


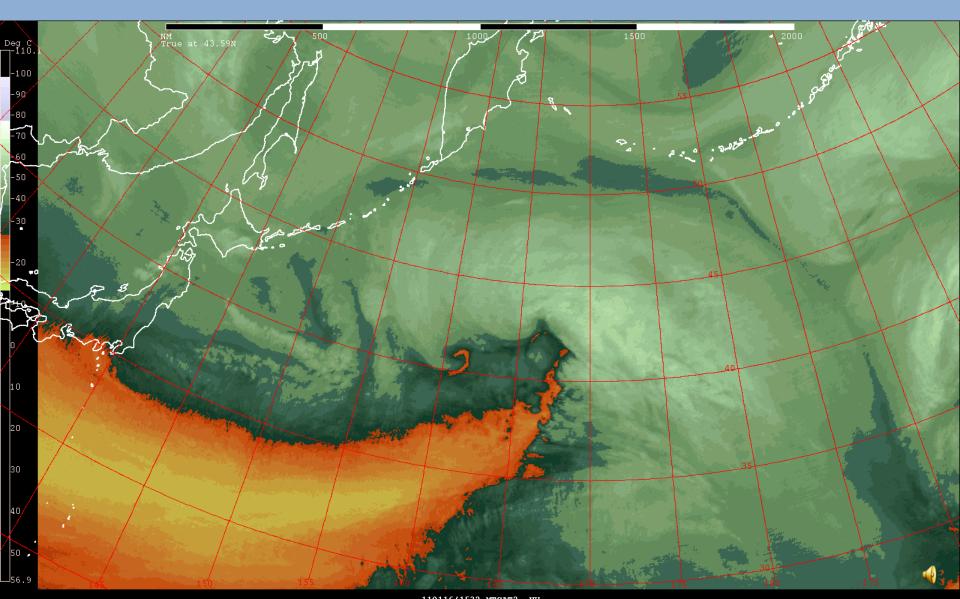


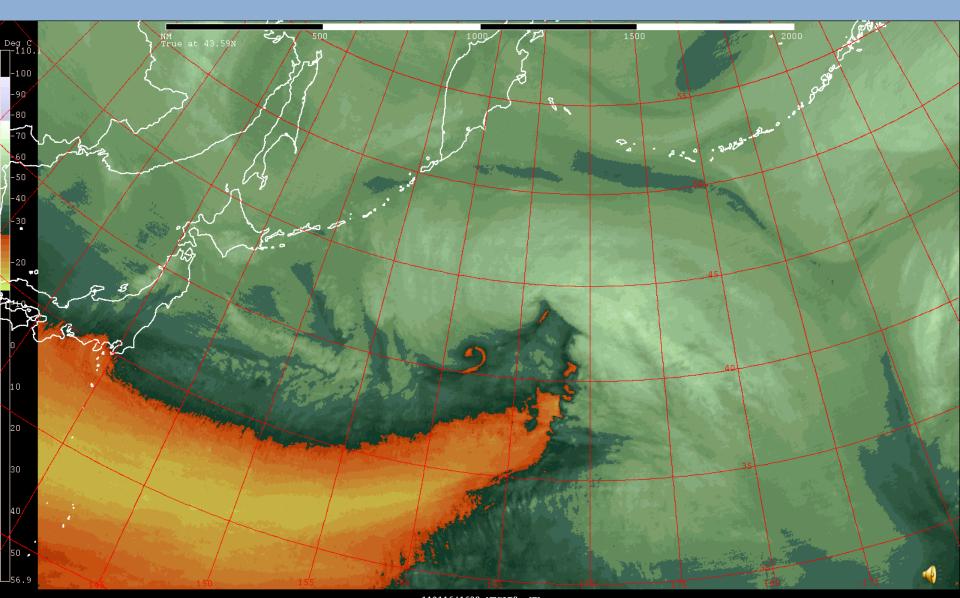


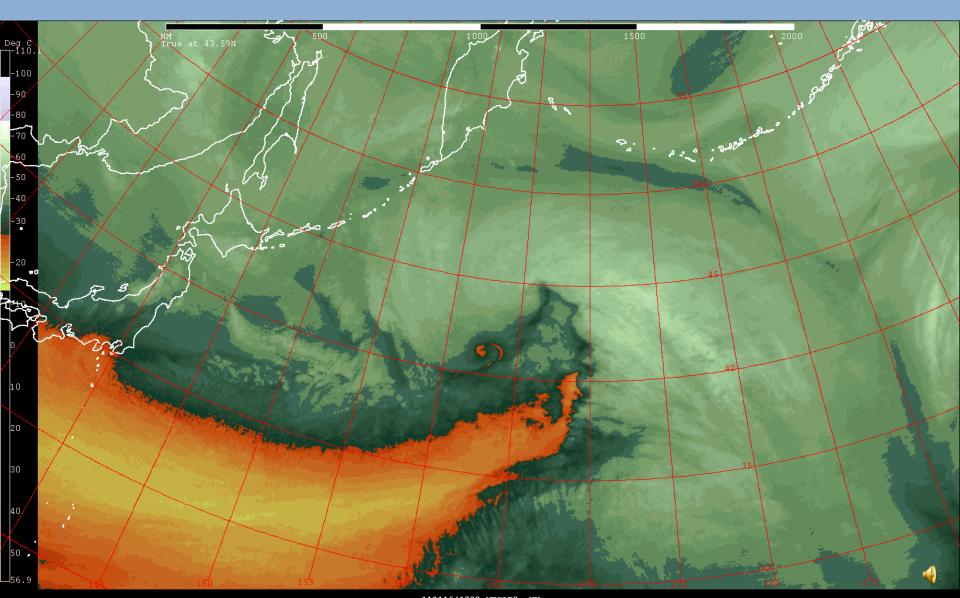


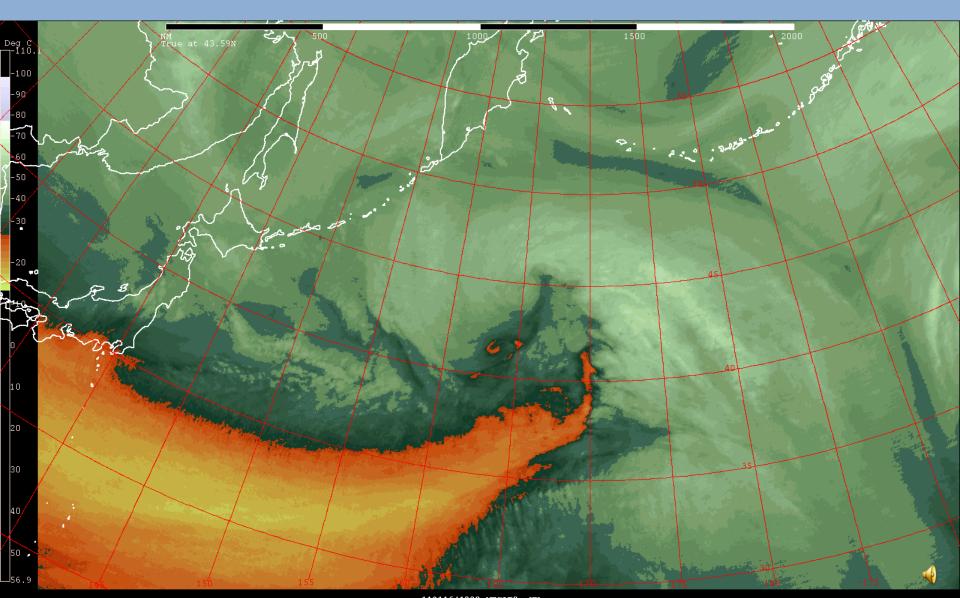


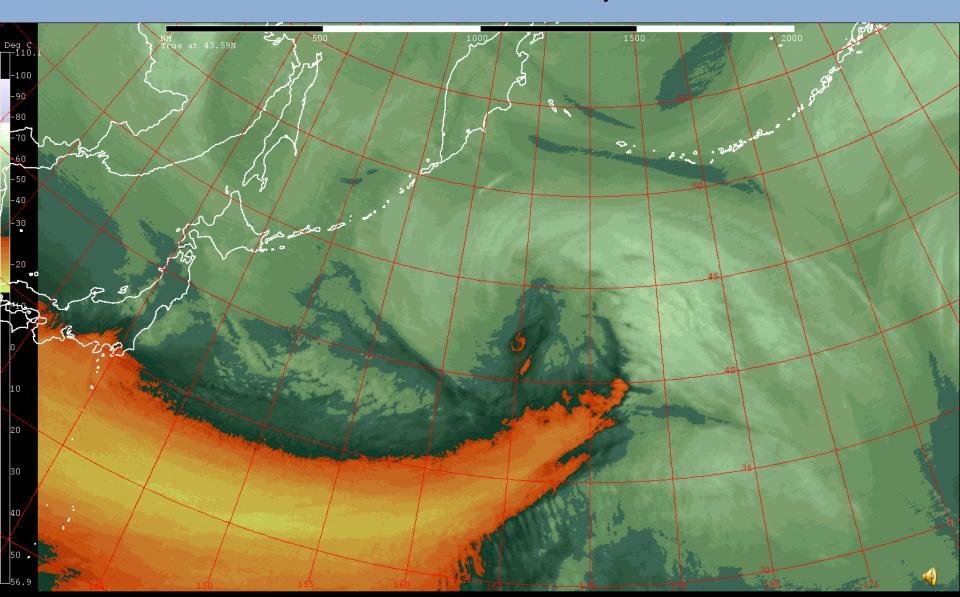


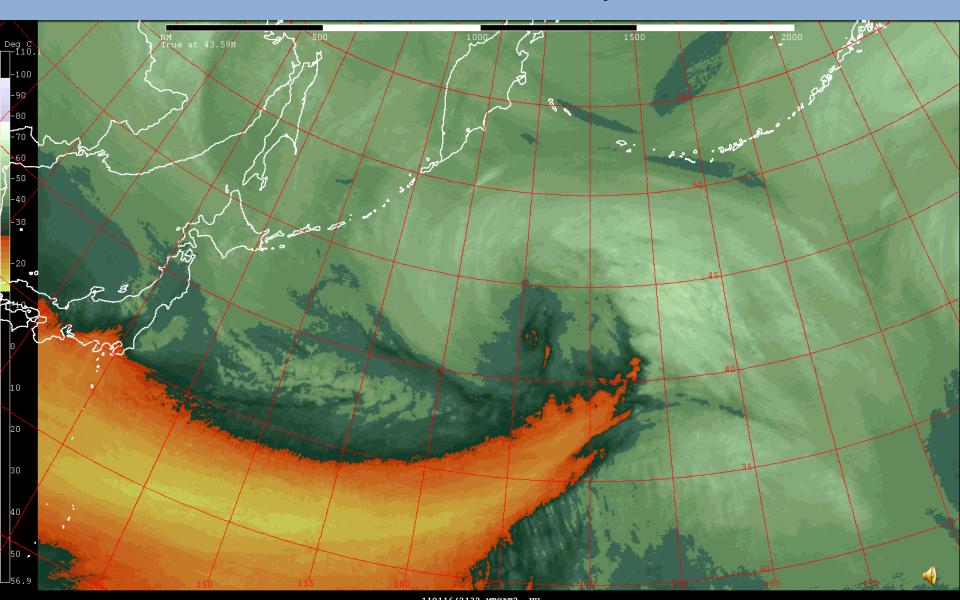


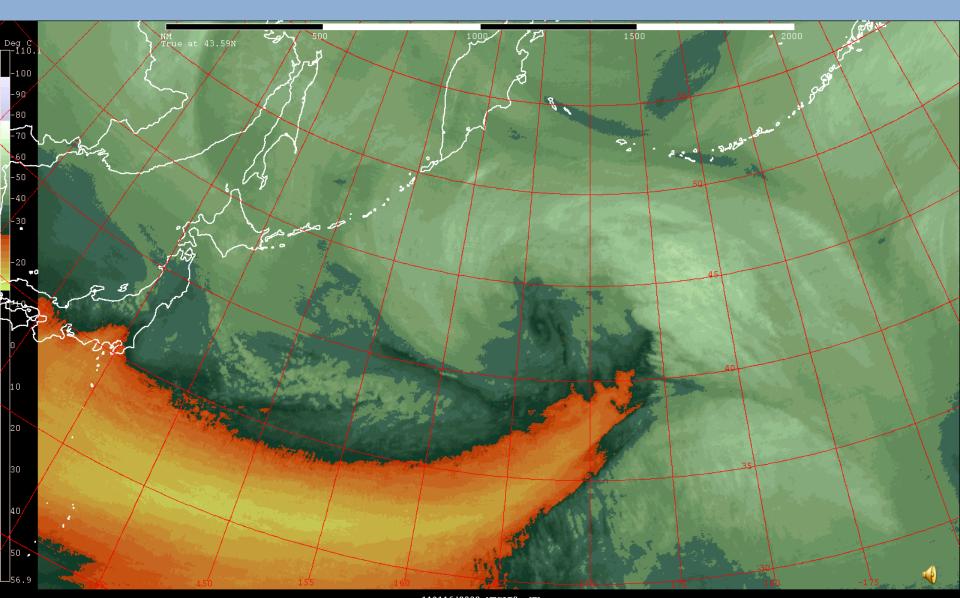


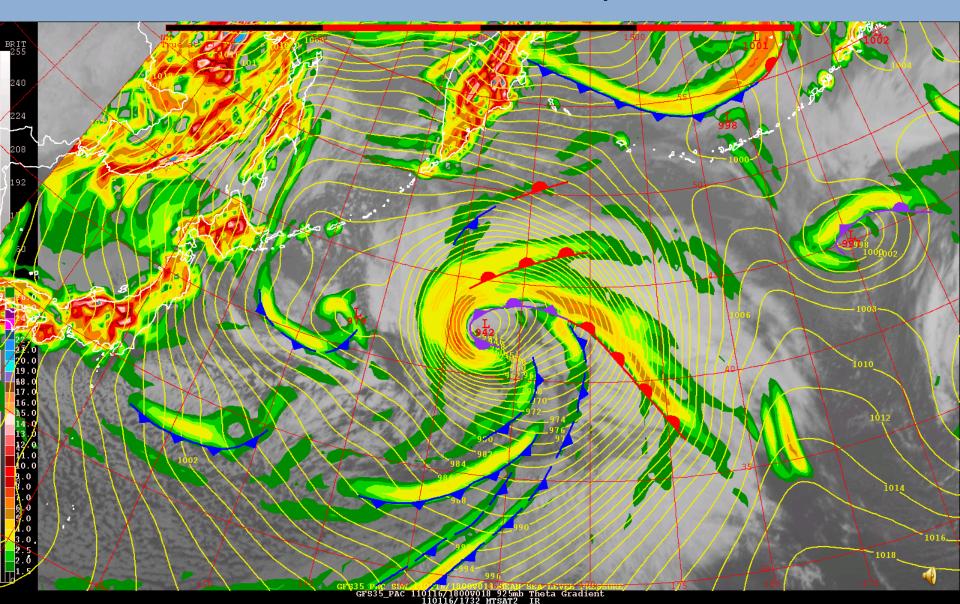


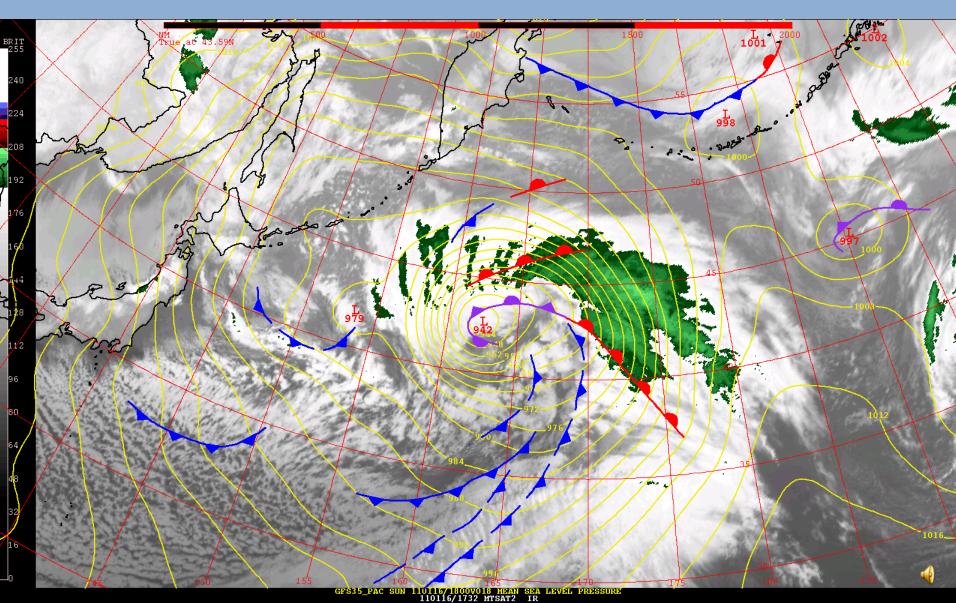


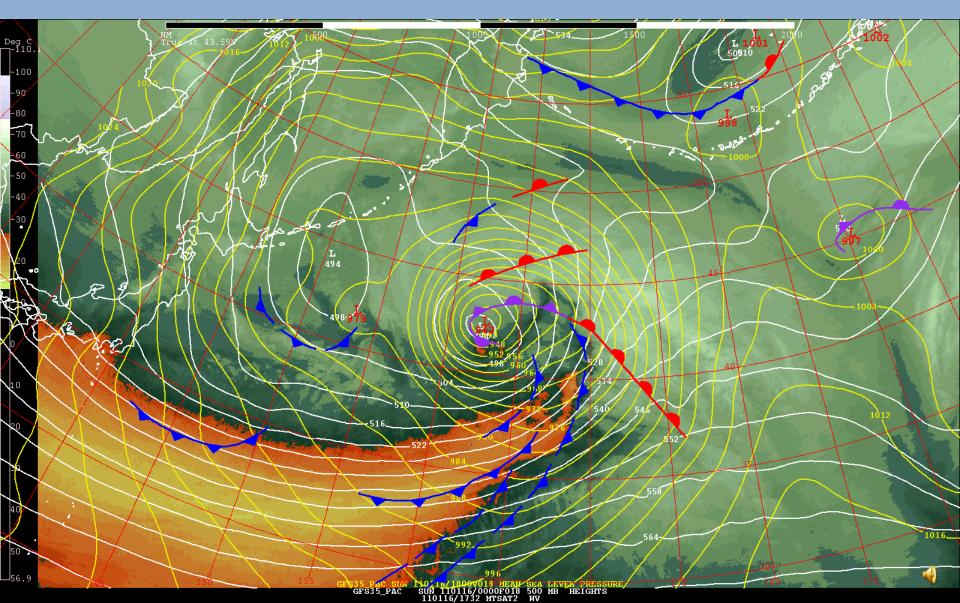


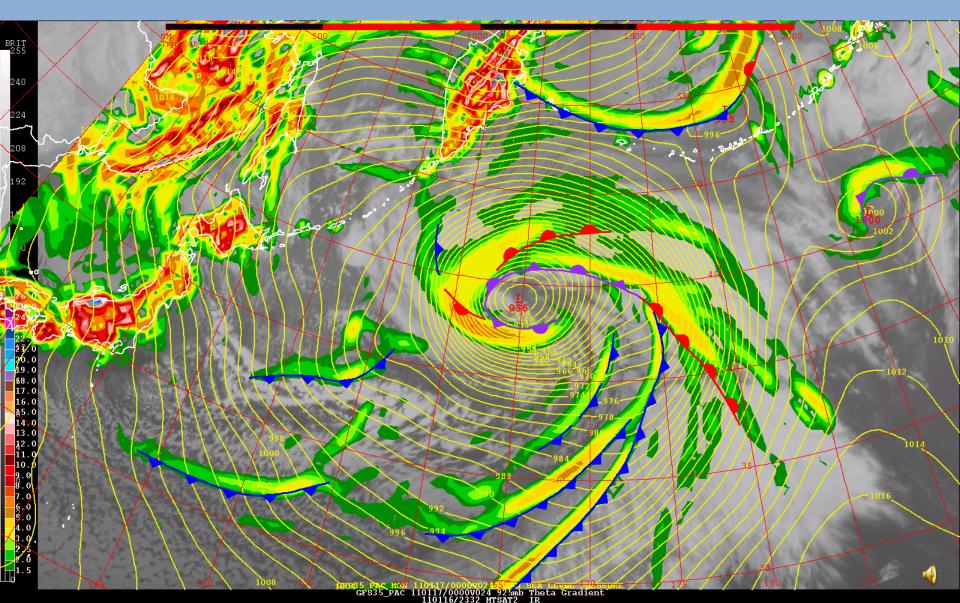


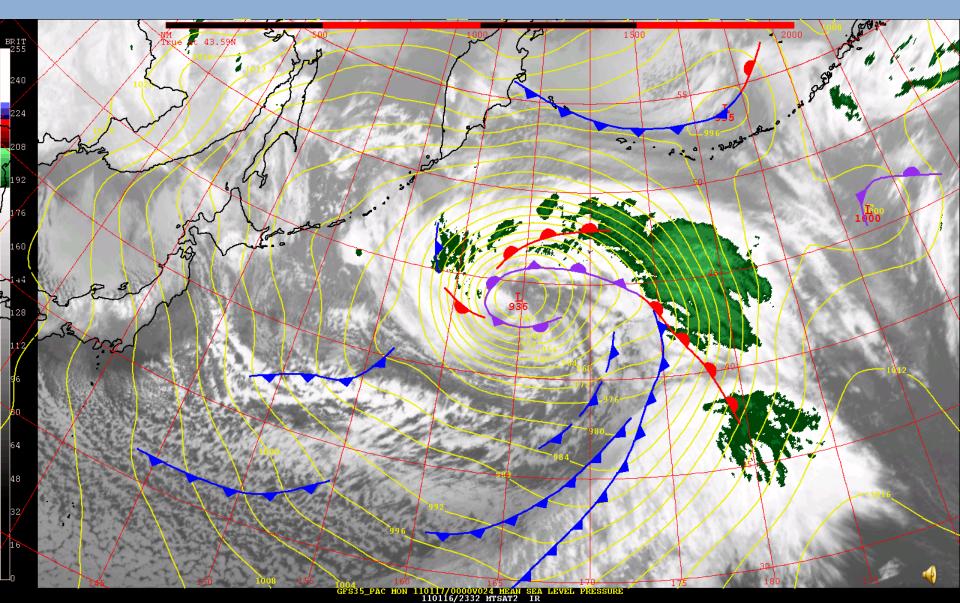




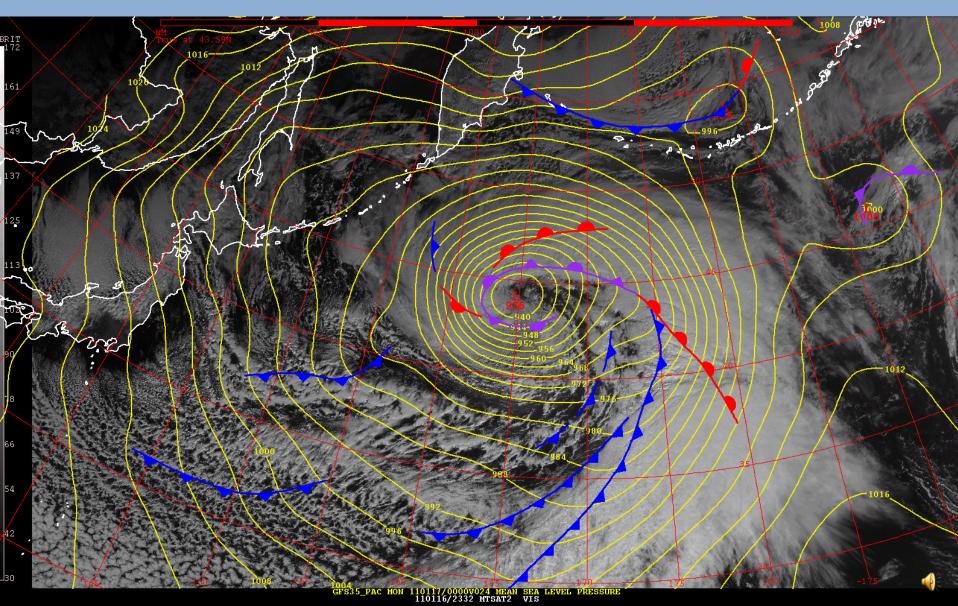




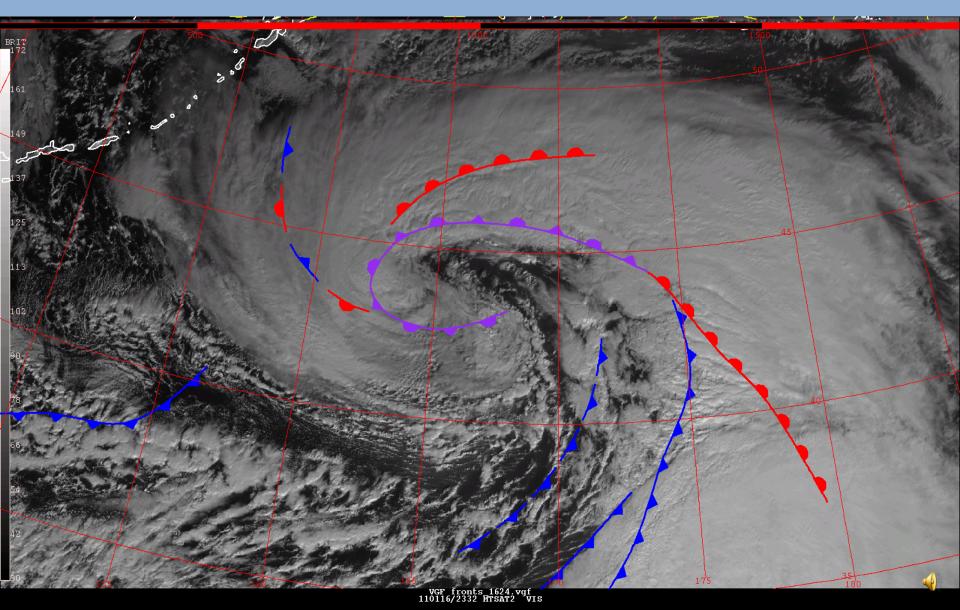


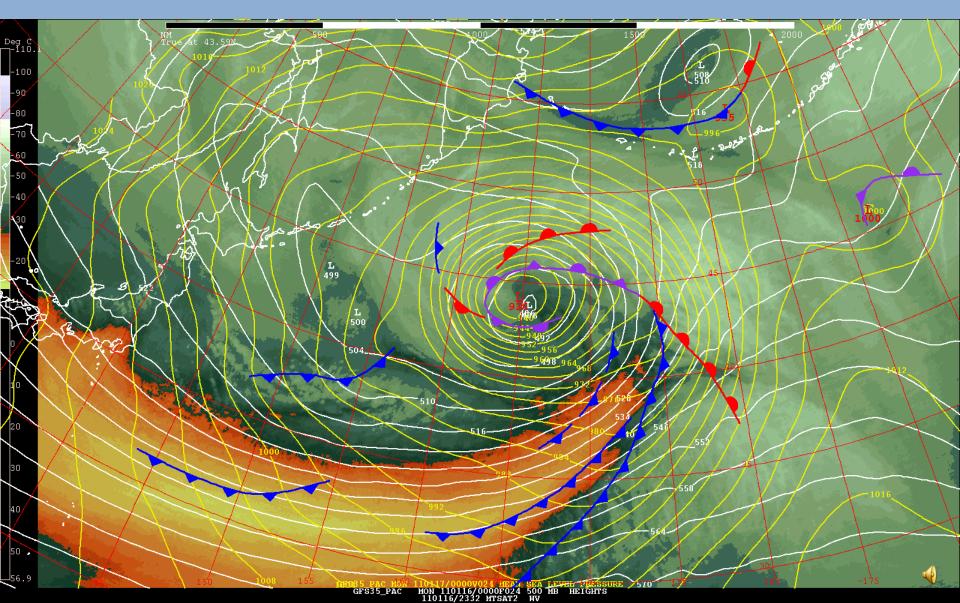


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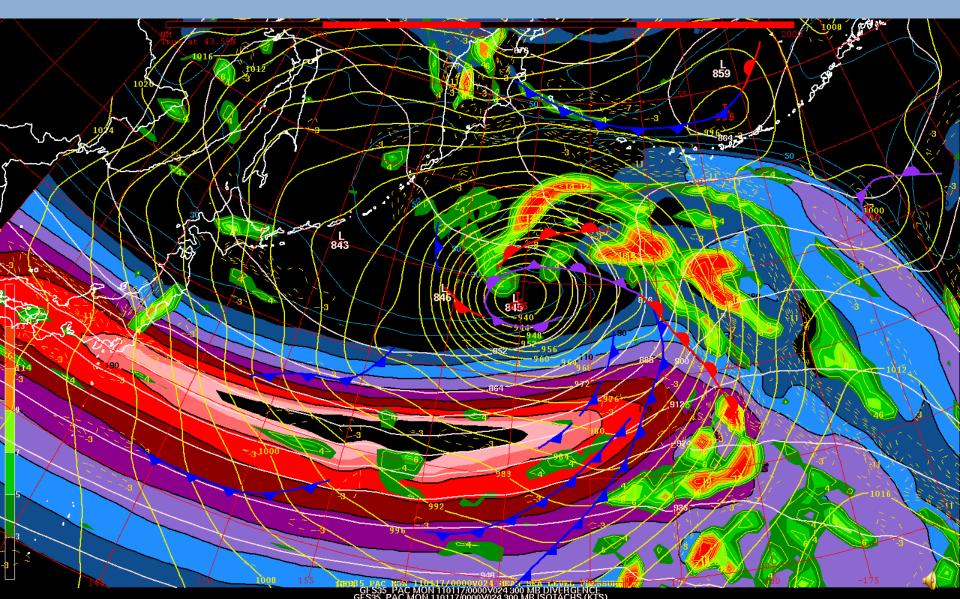


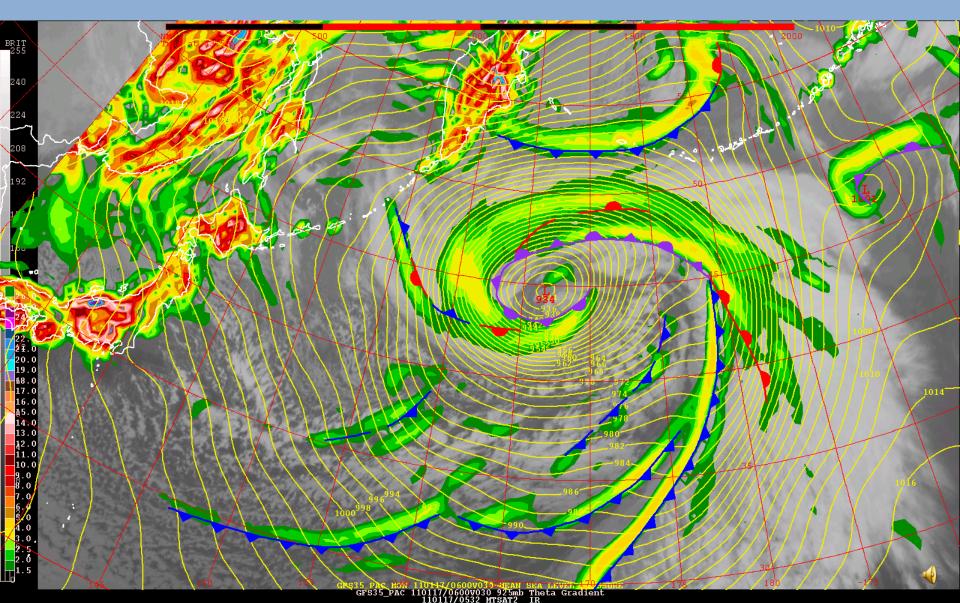
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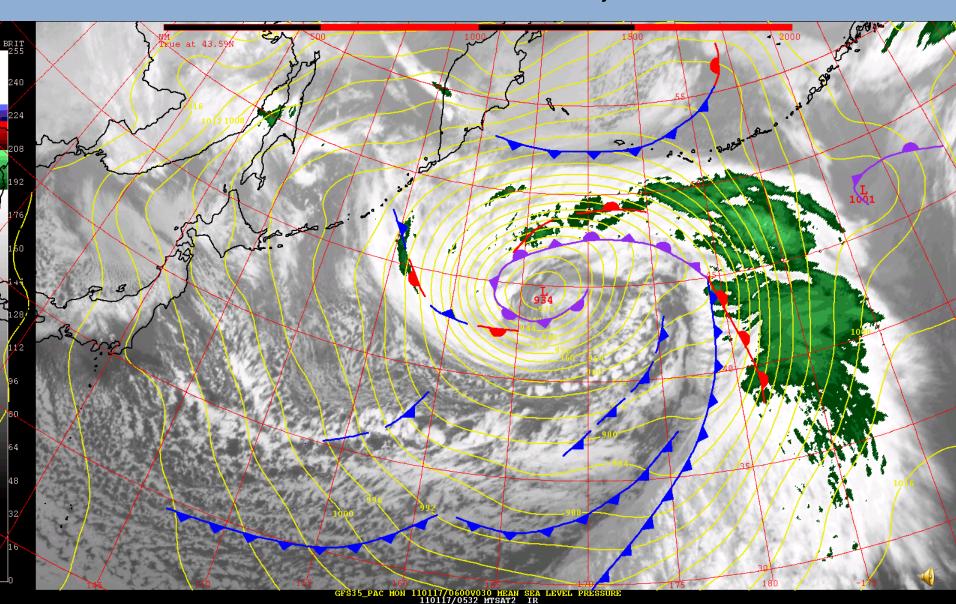


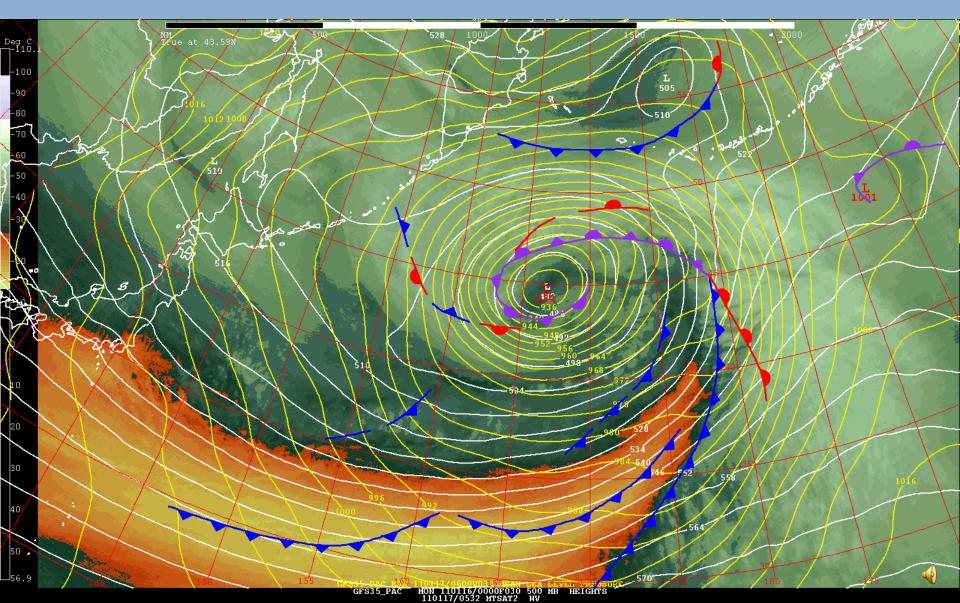


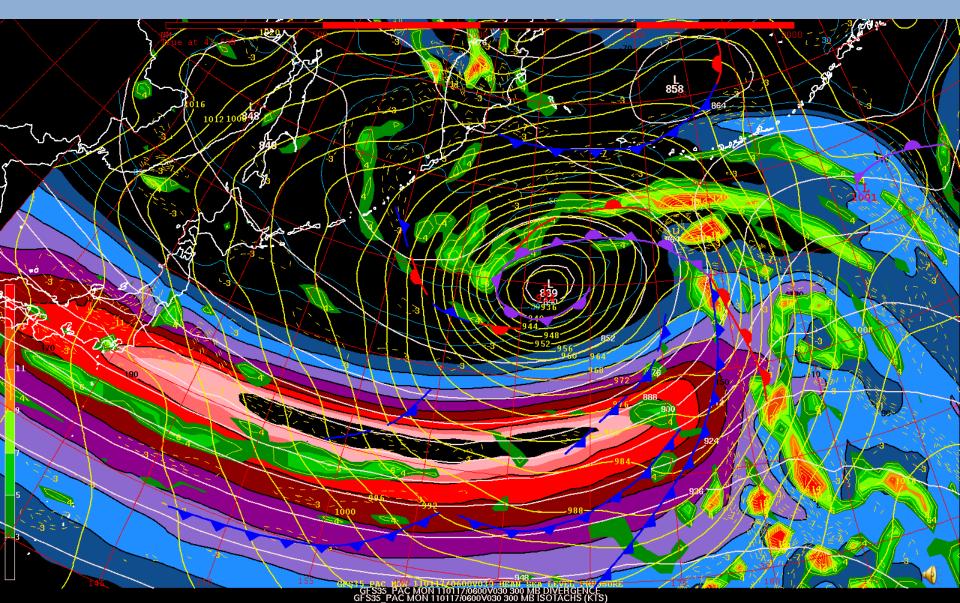
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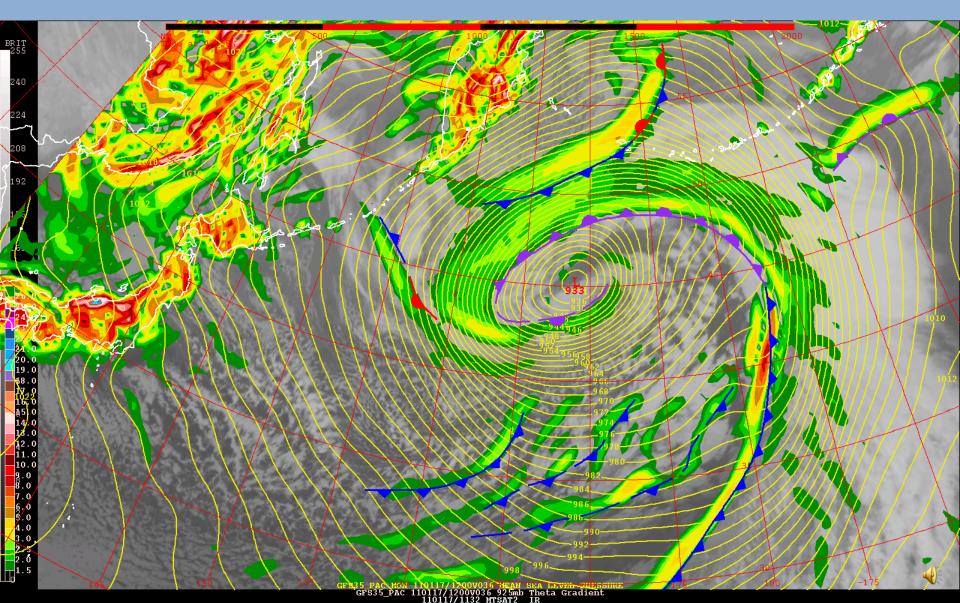


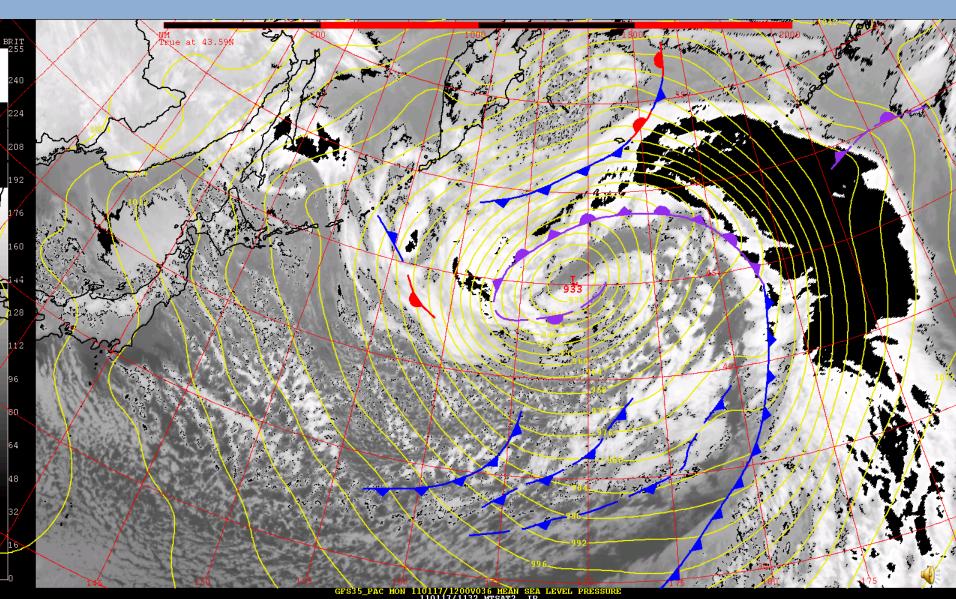


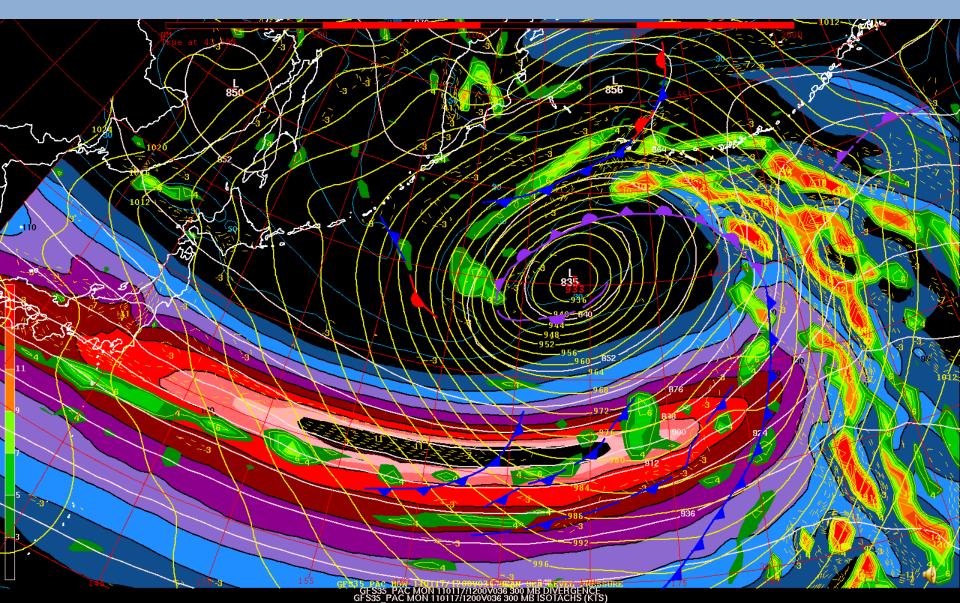


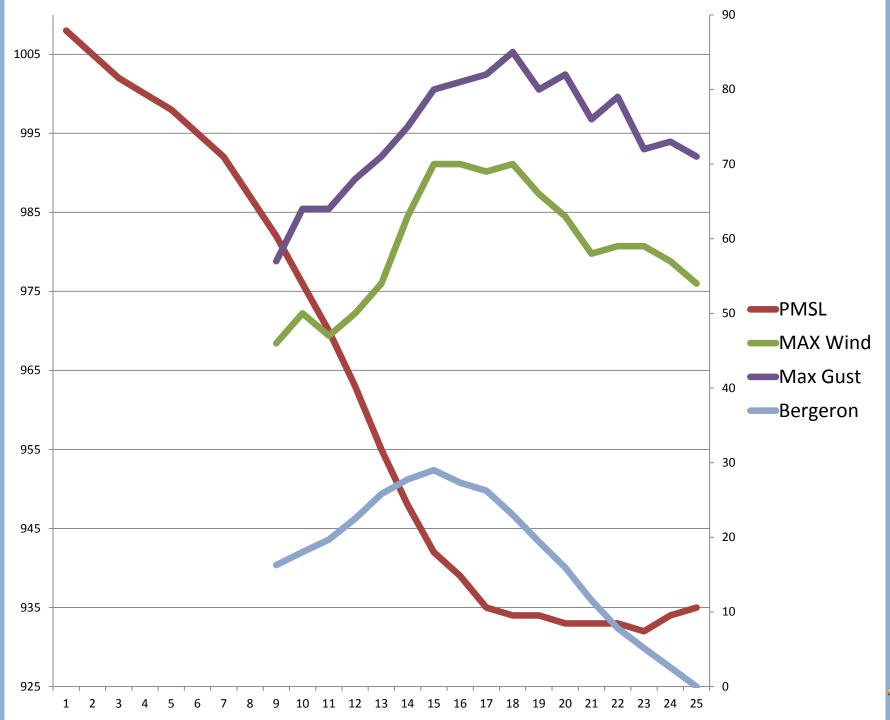














Frontal Evolution of the January 2011 North Pacific Monster Cyclone Summary

Demonstrated application of 925 mb Theta gradient to dep fronts

Evolution of frontal zones – in some ways 3 hourly output is coarse to follow all features

Key points in frontal evolution

- Strength of bent back THE MOST INTENSE FRONT
- cold frontal fracture routine, multiple warm fronts

Rapid intensification in IR and WV imagery

- WV shows rapid drying / descent at time of rapid intensification
- Comma develops commensurate with bent back wrapping around
- Divergence maximized and concentrated during rapid developme over warm frontal region