



Heavy Rains in Northern Central America from Late Season Cold Front and Pre-Frontal Trough

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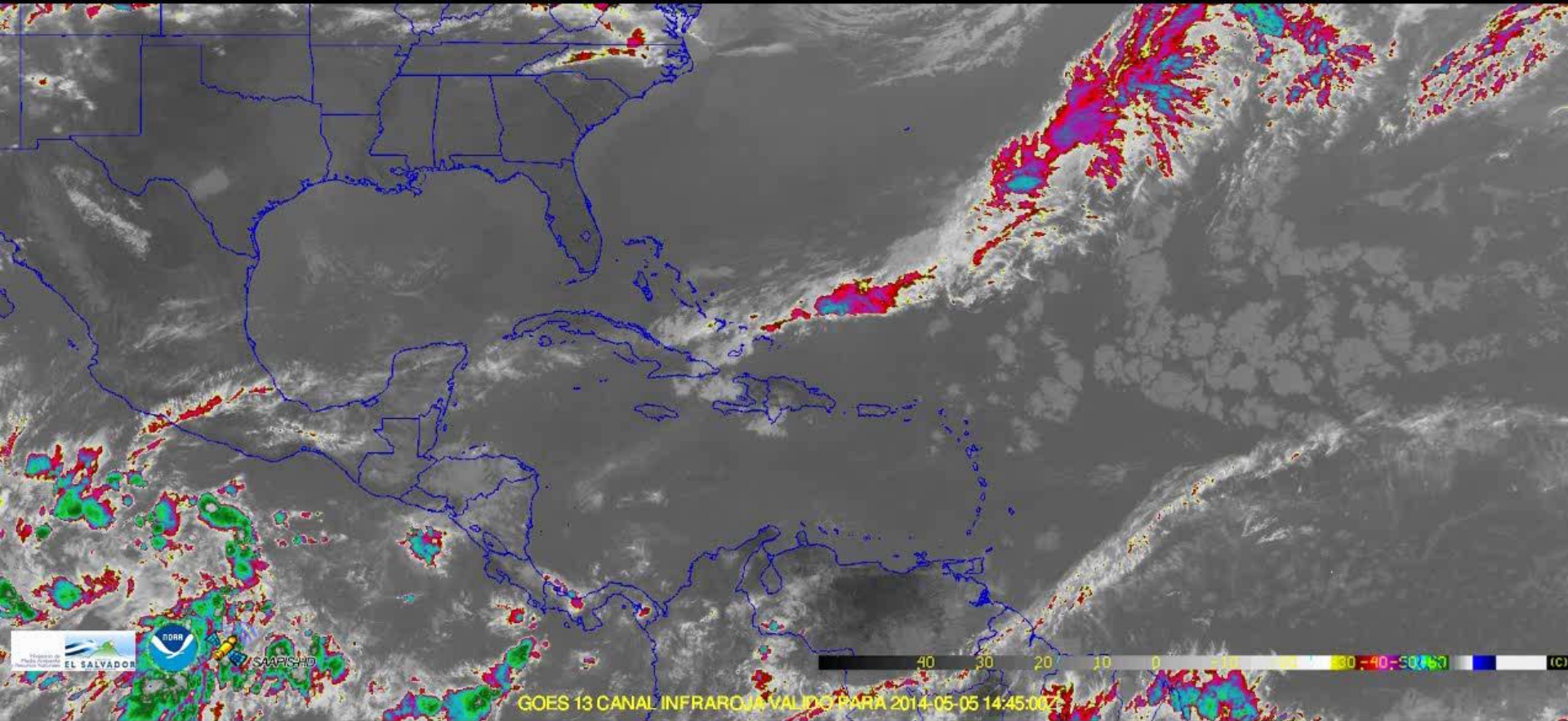


Summary

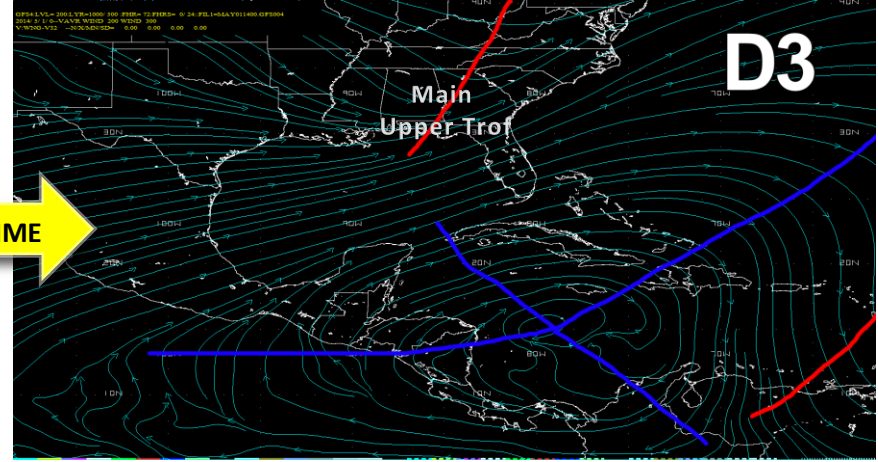
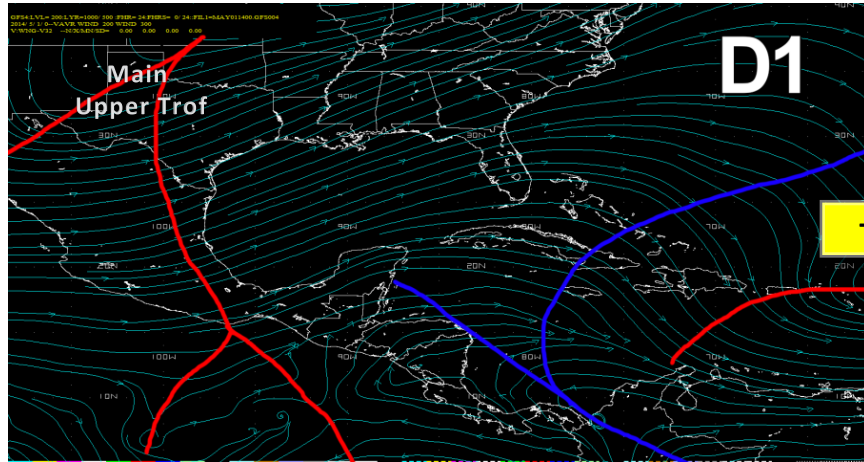


- Late season Cold front in Mexico Gulf and Western Caribbean.
- Prefrontal Trof over North Central America.
- Humidity advection from Pacific ocean into continent.

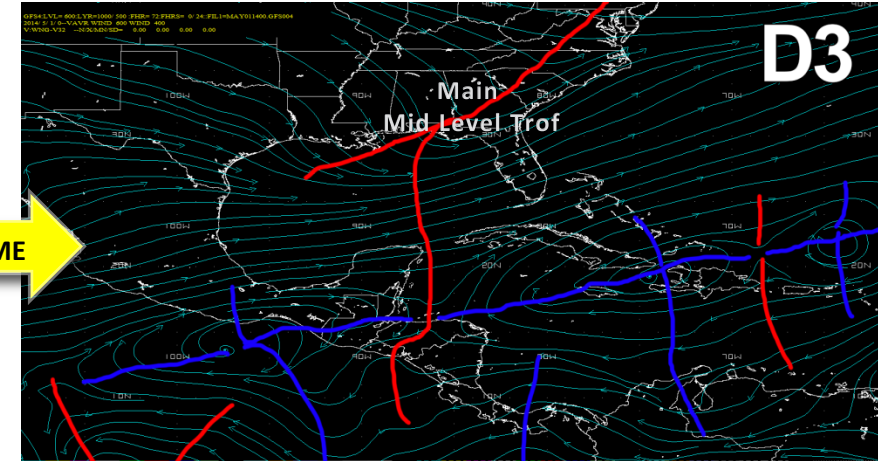
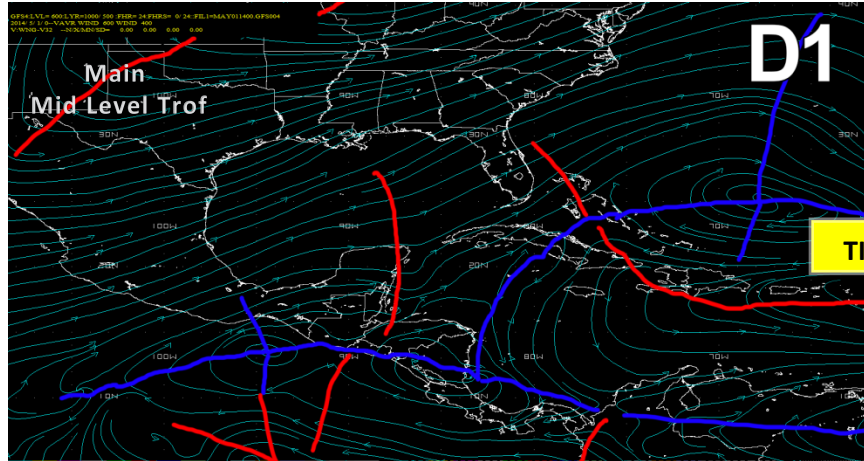
Infrared channel 4 Event Animation



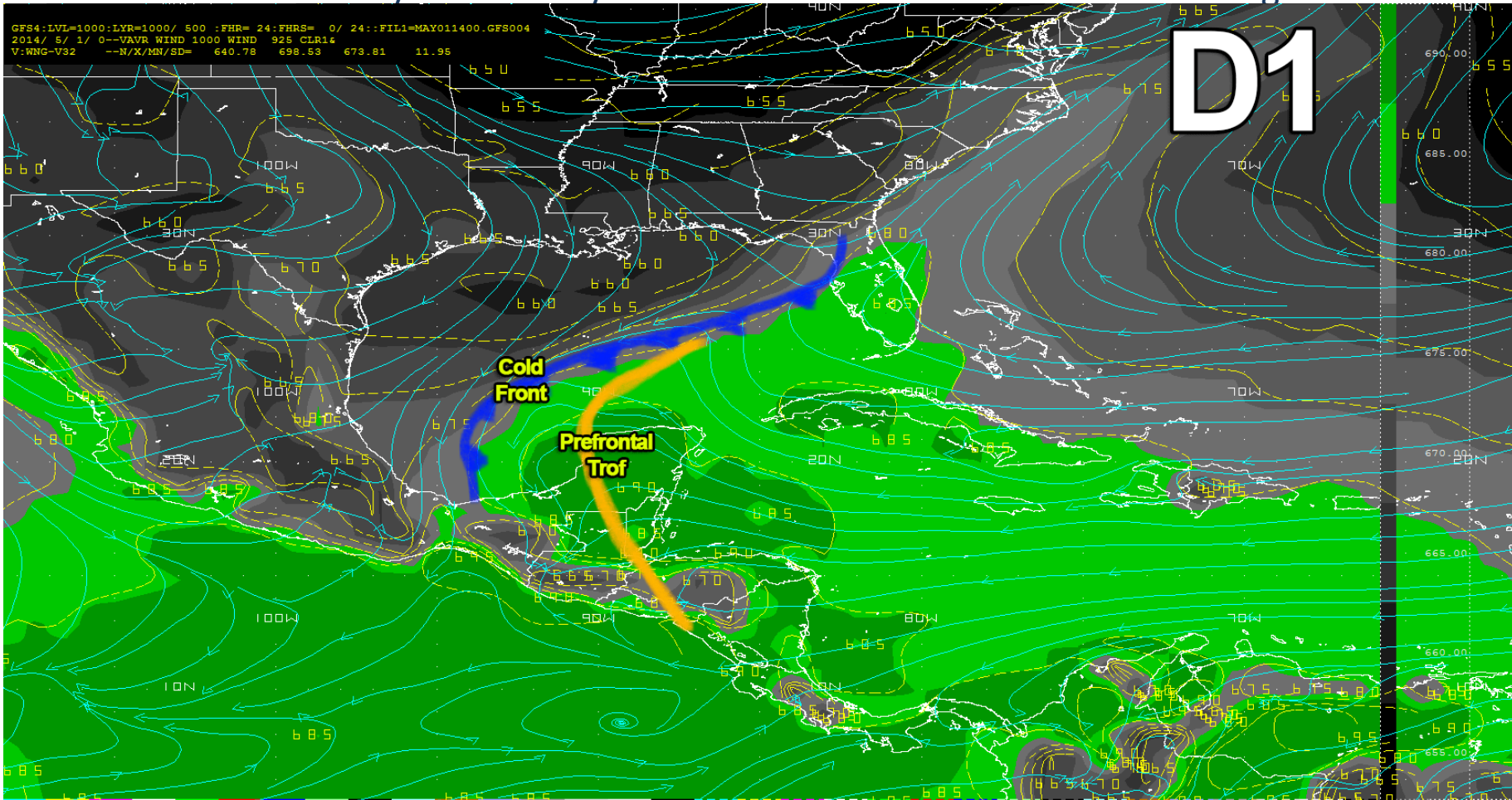
Dynamic Analysis : Upper Level Average Flux Time Evolution



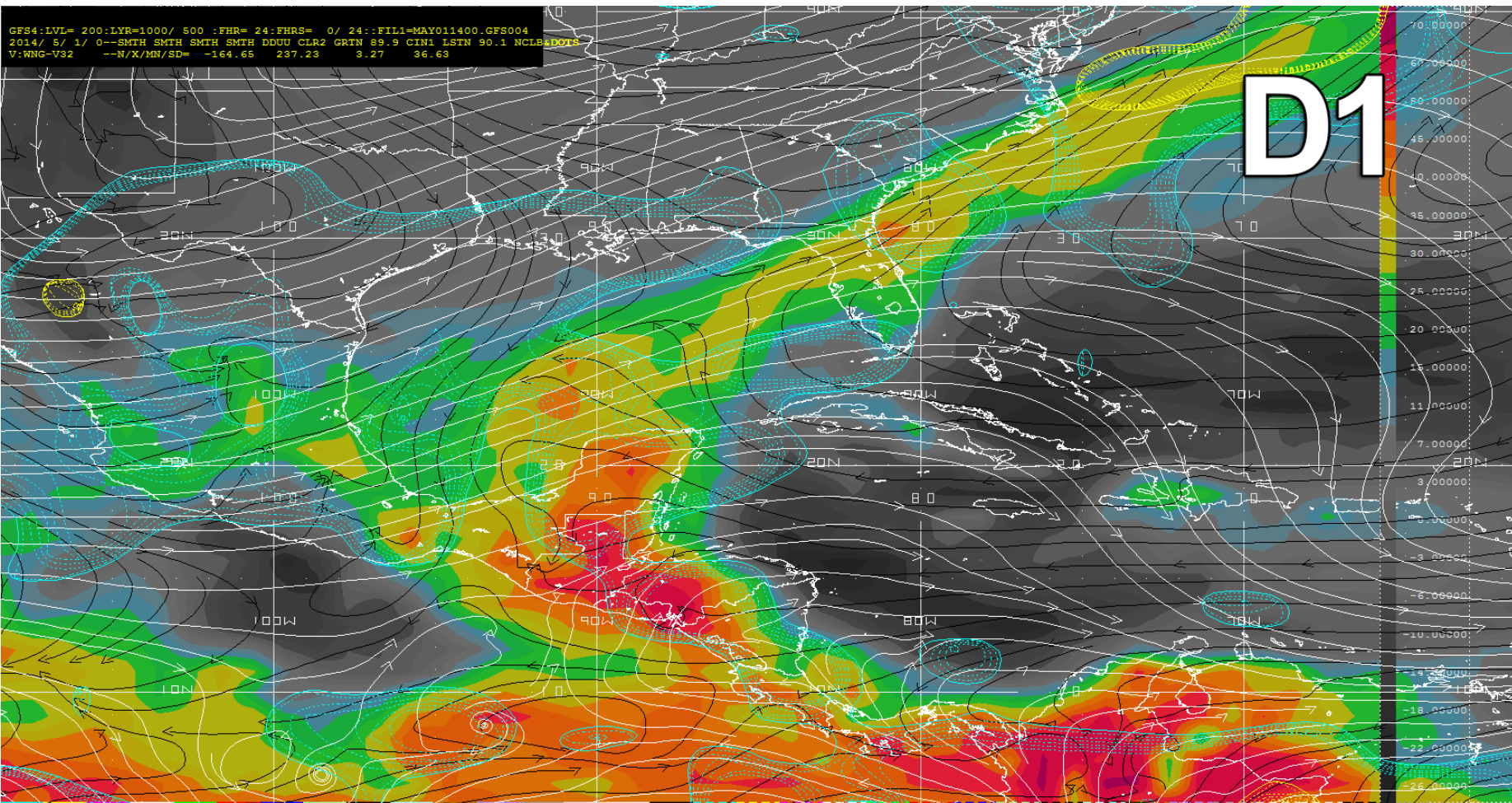
Dynamic Analysis : Mid Level Average Flux Evolution



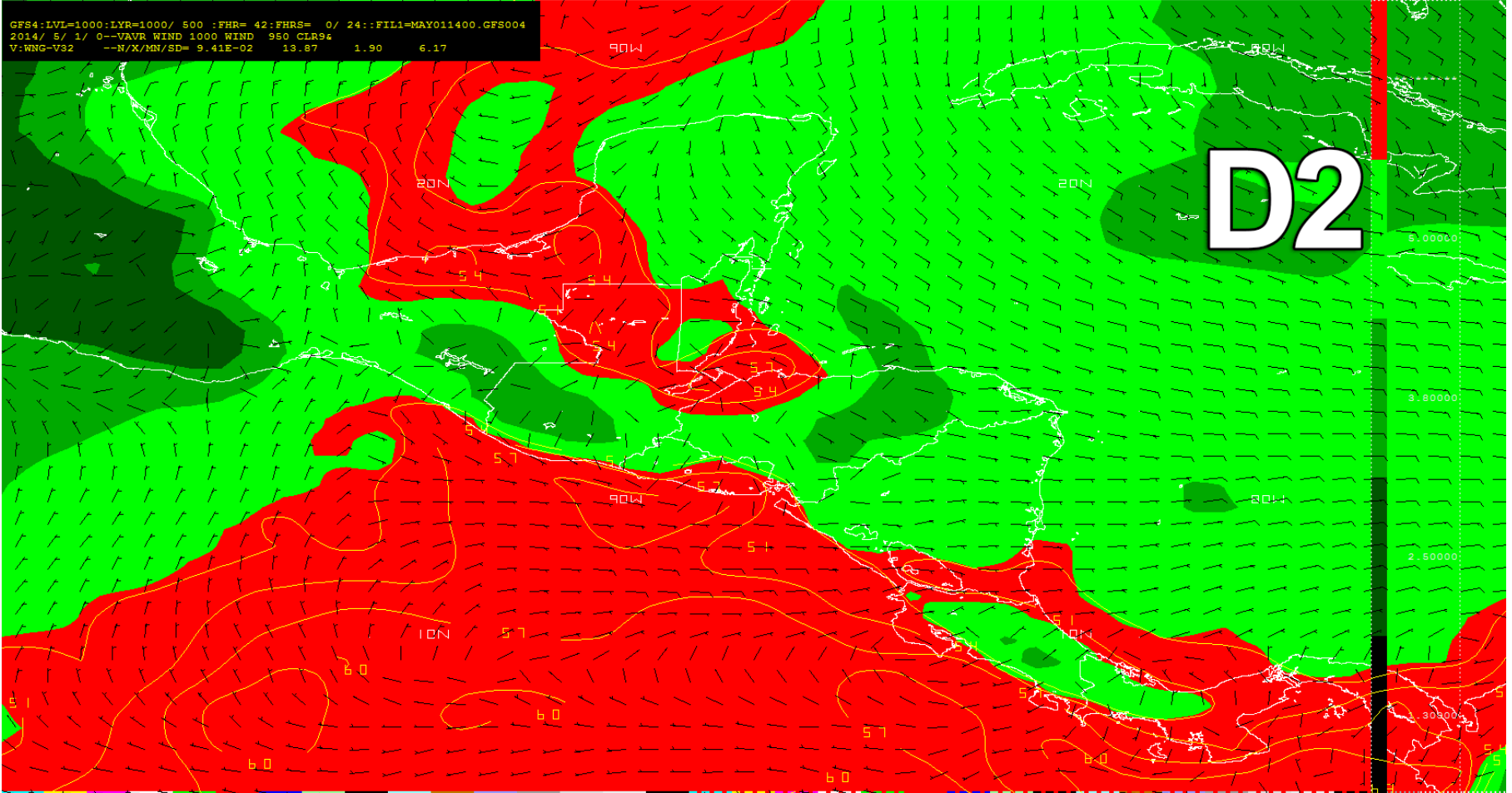
Low level Dynamic Analysis:1000 and 925 hPa Tickness and Average flux



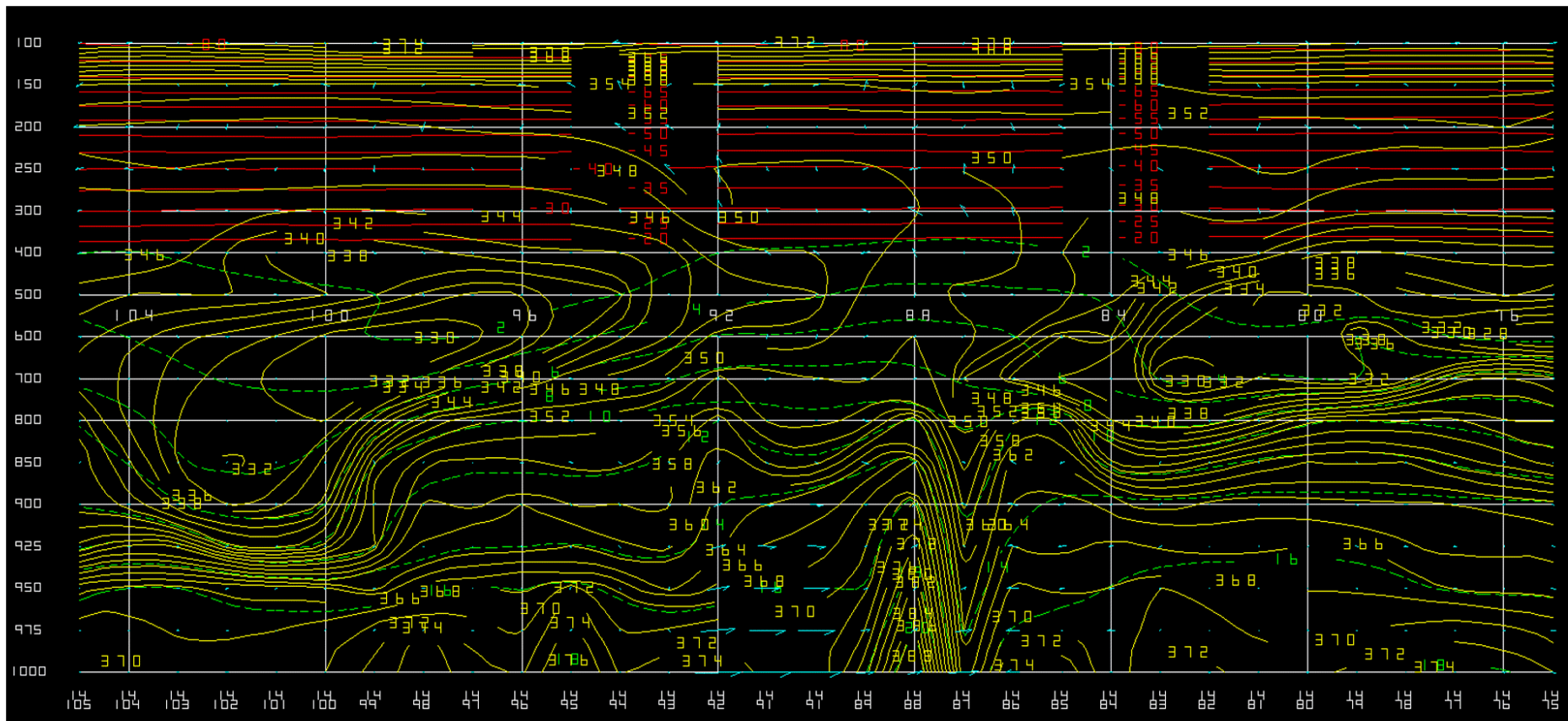
Thermodynamic and Dynamic Tropospheric Analysis with Galvez Davison Index (GDI)



Precipitable Water and Low Level Flux Average Analysis

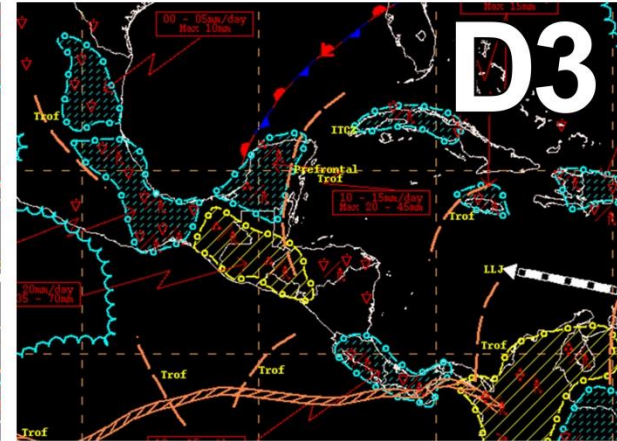
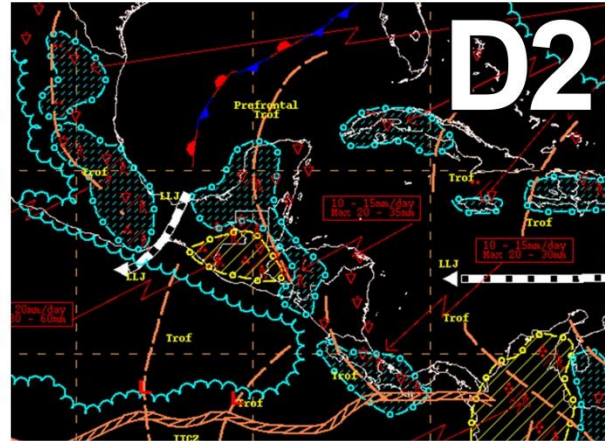
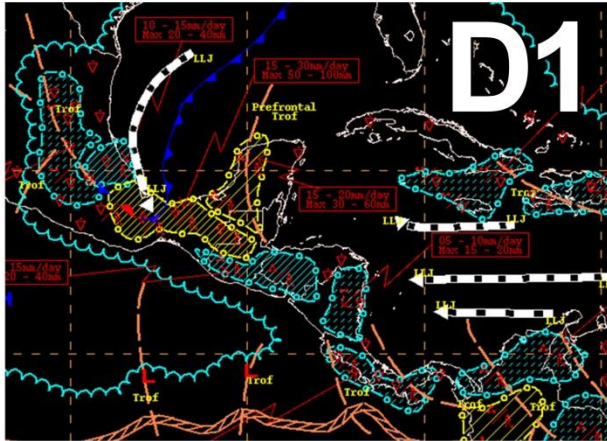


Cross Section Analysis of Interest Area



EL SALVADOR

Tropical Desk Forecast Products



Visible channel 1 Event Animation – El Salvador zoom in



Conclusions

The slow progression of the Prefrontal Trof over North Central America

- stimulated sea breeze
- stimulated convective instability in El Salvador
- deep-layer moisture transport from the Tropical Pacific

...this generated recurrent diurnal thunderstorm development
through May 01-03



International Desk Training Conclusions

- Improve the skills to do analysis of synoptic/mesoscale systems.
- Improve tools and create new more to enhance meteorological analysis.
- Discipline to do task in short times.
- Refresh theoretical concepts and learn new ones.
- Improve confidence as a forecaster.
- Look and learn around broader area, not only your country.
- Improve English!

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International Desk Background

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Thanks!

