

Operational Weather Research and Forecasting in ASTI

Making forecast data accessible for disaster risk reduction and scientific research

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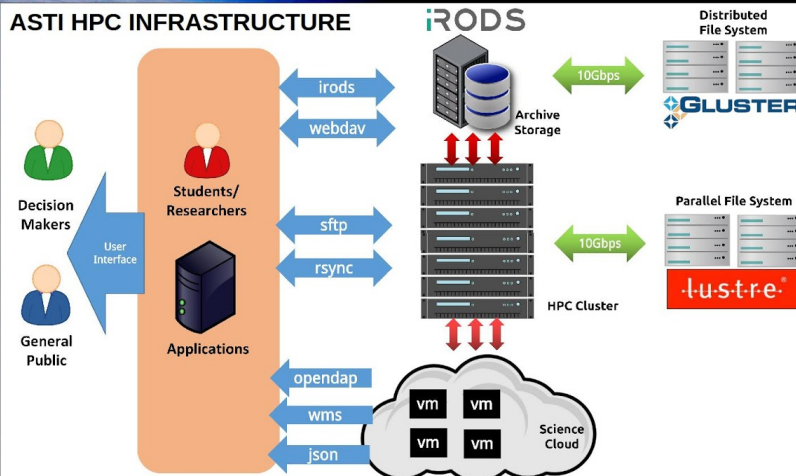
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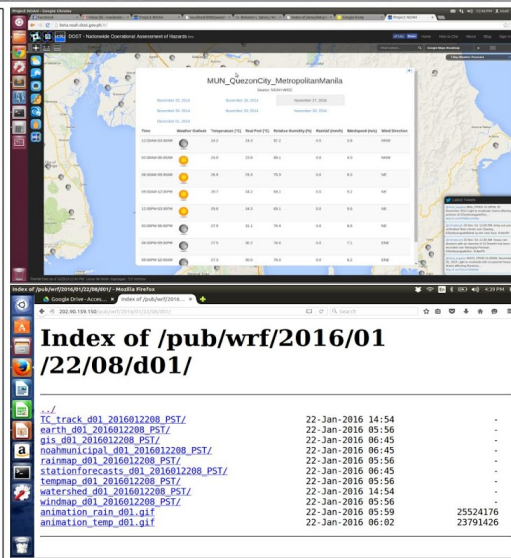
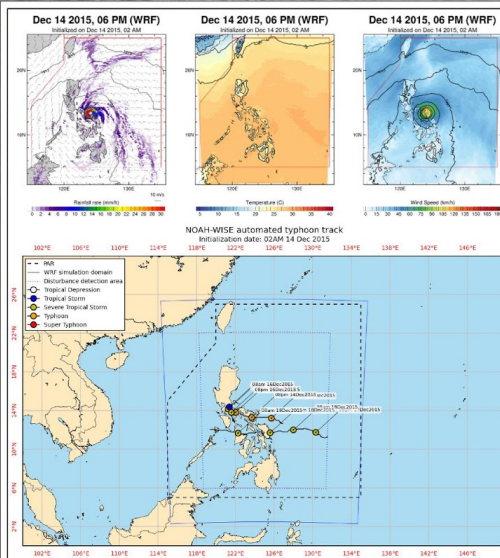
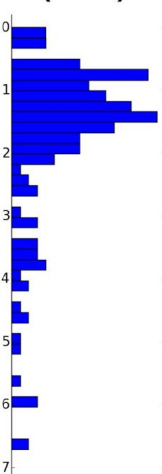
Project WISE is an inter-agency endeavor to improve the forecasting capability of the Philippines that aims to generate reliable 7-day WRF forecast through sensitivity testing and data assimilation techniques.

Operationalization of WRF in ASTI is a fulfillment of the WISE's desire to continue running weather simulations; and publicly share and store forecast data for the consumption of forecasters, decision-makers and scientific researchers.

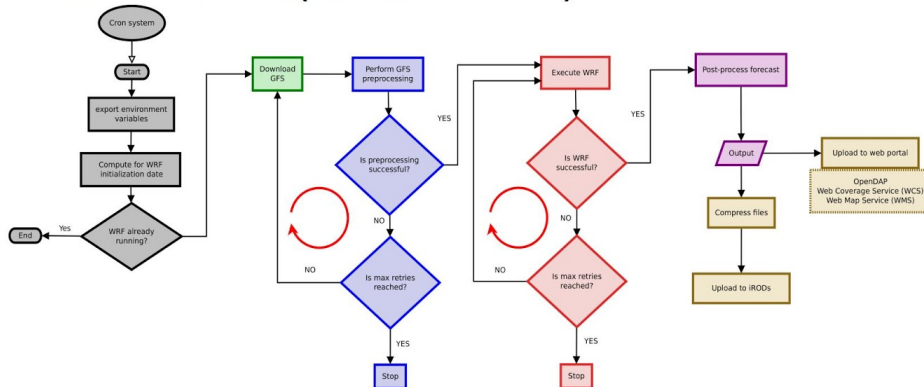
ASTI HPC INFRASTRUCTURE



WRF runtime histogram (hours)



OPERATIONAL SYSTEM (SIMPLIFIED DIAGRAM)



FUTURE WORK:

- High resolution WRF forecast (4 km)
- Operational data assimilation
- Web WRF forecast visualization
- Smart job queueing

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