

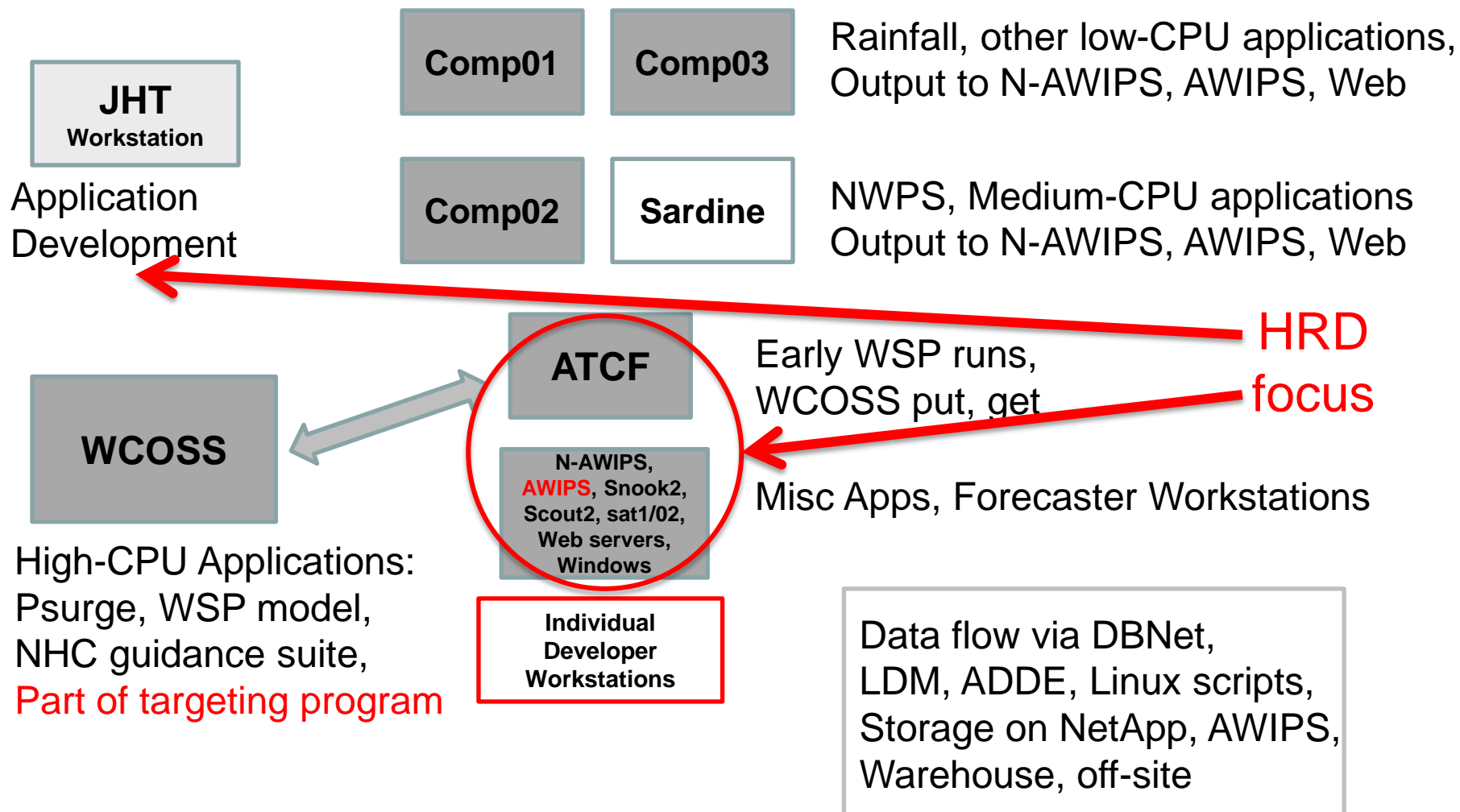
HRD plans in support of ATCF and AWIPS2



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NHC Computing Capabilities

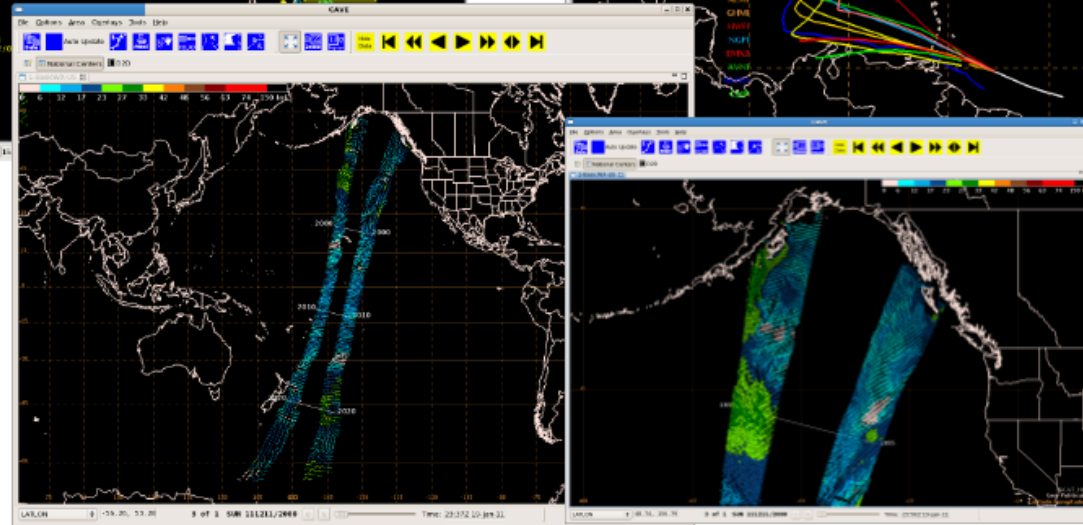
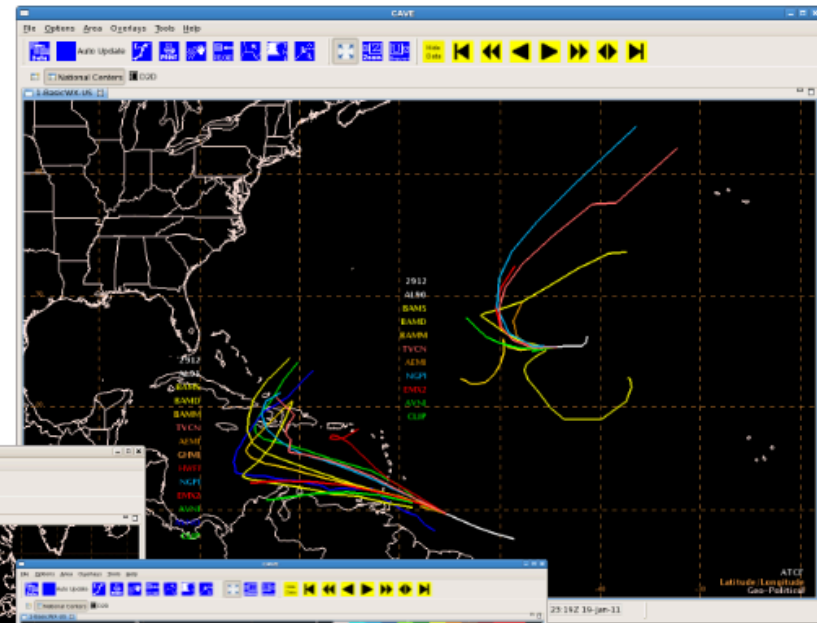


HRD Approach



- Work with NHC and OAR to acquire AWIPS-II development environment at HRD – O2R
- Focus on AWIPS II National Centers Perspective (NCP)
 - Provide development environment for R2O of new TC applications (e.g., guidance on guidance, ensemble products, aircraft and satellite data)
 - Provide back up to NHC
- Work with NHC AWIPS-II NCP development environment in the meantime to develop familiarity with AWIPS-2 and NCP – R2O

A satellite image of the Caribbean Sea and surrounding regions. A large, well-defined hurricane, labeled 'Hurricane Earl', is visible in the upper left quadrant, showing a clear eye and spiral cloud bands. To its right, a smaller, less organized tropical storm, labeled 'Tropical Storm Finae', is visible. The landmasses of Central and South America are partially visible on the left side of the image.



HRD R2O 2016 priorities



- Focus on Delayed NHC development projects that require research developments:
 - Update and migration of G-IV Surveillance targeting program from WCOSS to WCOSS-2
 - Assist NHC to port existing code to run on WCOSS-2 – application by June 2016
 - Work with NHC to update and improve the G-IV Surveillance targeting strategy – report by January 2018 and application by June 2017
 - Develop and evaluate new targeting strategy to include the G-IV TDR and Surveillance missions using hurricane OSSE capability – report by June 2017 and application January 2018

HRD 2016 priorities (cont'd)



- Improved displays of aircraft reconnaissance observations
 - Work with NHC to develop application to plot aircraft flight-level, TDR, LF radar, and dropsondes – by June 2017
 - Work with NHC to develop application to overlay aircraft observations over satellite images – by June 2017
 - Work with NHC to identify POES satellite products to improve RI guidance – TBD
- Implementation of RII with TPW input (HDF-4 data format conversion) – by June 2016
- Test and Evaluate new guidance on guidance applications, e.g., intensity change/RI, ensembles for intensity change and track – TBD



Questions?

