

# FV3GFS Version 0 Code Release to the Community

- **Configuration: NEMS + FV3\_CAP + FV3\_Dycore + IPDv4 + GFS\_Physics**  
Same model used for Phase-2 dycore comparison with upgrade of physics to Q3FY17 GFS configuration.
- **Resolution:** C96 (~100km), C384 (25km), C768 (~13km), no nesting/stretching
- **Build the model:** On WCOSS, THEIA and Jet, with pre-installed libraries and utilities.
- **Data:** Initial conditions for selected cases, and fixed fields for running the model
- **Release Date: May 15, 2017**
- **Method of Release:** VLab GIT; EMC Subversion
- **Running the model:** simple shell script and configuration files to run forecast-only experiments for selected cases.
- **Post Processing:** **Fregrid** and **Remap** tools to convert 6-tile model output to global lat-lon grid with user defined resolution in netCDF format.

# NOAA Virtual Lab (VLab) to host FV3GFS Code Release

➤ Access FV3GFS Project on VLab

<https://vlab.ncep.noaa.gov/group/fv3gfs>

➤ Code repositories set up on VLab GIT & EMC Subversion

➤ Community Wiki page, Forums and Developers Pages on VLab

➤ Case Studies:

Sept. 29, 2016 **Hurricane Matthew**

Jan. 18, 2016 **East Coast Blizzard**

Aug. 12, 2016 **Louisiana Flooding**

➤ Model Resolutions:

C96 (~100km), C382 (~25km) or C768 (~13km)

The screenshot shows the NOAA Virtual Lab (VLab) website interface. The browser address bar displays the URL <https://vlab.ncep.noaa.gov/group/fv3gfs>. The page header includes navigation options like '+ Add', 'Preview', 'Edit', and 'Edit Controls', along with user information for 'Vijay Tallapragada'. The main content area features the 'VIRTUAL LAB' logo with the tagline 'WHERE GREAT IDEAS BECOME OPERATIONAL REALITY'. Below the logo is a navigation menu with 'Home', 'Wiki', 'Forums', 'Code Releases', and 'Document Library'. The current page is titled 'FV3GFS / Home'. The main content area displays a section for 'FV3GFS Version 0 Code Release' with a sub-section for 'FV3GFS Demo Version 0 Community Code Release'. This section lists key information: Release Date (May 15, 2017), Configuration (NEMS + FV3\_CAP + FV3\_Dycore + IPDv4 + GFS\_Physics), Resolution (C96, C384, C768), Build instructions, Data, Method of Release (VLab GIT, EMC Subversion), Running the model instructions, and Post Processing tools (Fregrid and Remap). A 'What's New' section at the bottom highlights the 'FV3 Dynamic Core for NOAA's Next Generation Unified Modeling System' with a release date of May 15, 2017.