**NHC Guidance Suite v4.2.0 Implementation Instructions**

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**Code compilation & installation**

1. *Check out v4.2.0 from the Git repository at NHC using the instructions on code delivery form (copied below).*

git clone git@git.nhc.noaa.gov:nhc\_guidance.git --branch=v4.2.0

NOTE: If you have not connected to this git repo before, you will need to reach out to the NHC POCs above to get your public SSH key added to our server.

1. *Compile and install library exectuables using a script:*
   1. *When passed the argument “wcoss”, the following script will build all four libraries (dataio.a, generalutils.a, landutils.a, oceanutils.a, shipsutils.a)*

lib/sorc/build\_libs.sh wcoss

1. *Compile and install model executables using a script:* 
   1. *When passed the argument “wcoss”, the following script call will build and install all of the fortran source code executables:*   
      sorc/build\_nhc\_guidance.sh wcoss

**Dynamic HCCA training dataset installation**

1. *Copy the training  
   From: /lfs/h1/ops/prod/nhc/v4.1/storm-data/hcca/   
   To: /lfs/h1/ops/para/nhcg/v4.2/storm-data/hcca/*
2. *This should include the following contents:*

hcca:

-> input:

-> atcf\_local:

-> aid\_late : Real-time a-deck files

-> btk : Real-time b-deck files

-> CHIPS : Real-time CHIPS forecasts

-> nhc\_files:

-> netCDF : Required training netCDF files

-> netCDF\_hold : Updated training netCDF files

-> txt : Real-time .nhc files

-> txt\_archive : Required training .nhc files for netCDF file update

-> process\_lists:

-> output:

-> log:

-> input\_model\_logs

-> tr\_used

-> cron

-> work:

All directories should be empty except for input/nhc\_files/netCDF and input/nhc\_files/txt\_archive.

Note that we will be delivering an updated training once model retrospectives are completed and HCCA can be retrained.