

Land DA Workflow Demo

Commands

NOTE: Commands are typed in Courier New font, while comments/additional information are typed in Georgia font and preceded by a # symbol.

```
# SETUP (optional)
cd /work/noaa/epic/gpetro # Change this to the directory on your system where you
                           will add your Land DA work.
pwd
mkdir landda
cd landda
pwd

# Wherever $LANDDAROOT appears later in commands, users can substitute the path to the
# directory above their land-DA_workflow clone.
export LANDDAROOT=`pwd`
echo $LANDDAROOT

# CLONE & BUILD
git clone -b develop --recursive
           https://github.com/ufs-community/land-DA_workflow.git
cd $LANDDAROOT/land-DA_workflow/sorc
ls
./app_build.sh
cd ../exec
ls

# CONFIGURE
cd $LANDDAROOT/land-DA_workflow
module use modulefiles
module load wflow_orion
conda activate land_da
cd parm
pwd
ls
cp land_analysis_orion.yaml land_analysis.yaml
vi land_analysis.yaml
i
esc key
```

```

:wq
uw rocoto realize --input-file land_analysis.yaml --output-file
    land_analysis.xml

# RUN
./launch_rocoto_wflow.sh add # On systems with cron only
# OR
rocotorun -w land_analysis.xml -d land_analysis.db

rocotostat -w land_analysis.xml -d land_analysis.db

# Several times until all workflow tasks are complete:
rocotorun -w land_analysis.xml -d land_analysis.db
rocotostat -w land_analysis.xml -d land_analysis.db

# Note that the land_analysis.db file is only updated after each rocotorun command.
# If the rocotorun command has not been issued (whether manually or via cron automation),
# the rocotostat command will not show any progress, even though tasks that have been
# running may have completed.

# VIEW PLOTS

# One possible way to run plots (will not work on every system)
# Uses XQuartz on Mac with imagemagick module (Xming is the Windows equivalent)
# Must be -X login enabled (e.g., login using ssh -X username@system...)
cd $LANDDAROOT/ptmp/test/com/landda/v1.2.1/landda.20000104/plot
ls
module load imagemagick
display hofx_oma_20000104_scatter.png

```