# MeqTrees
# Practical Session

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# Getting Started

- Copy over the exercise data:

**> cp -a /data/lofarschool/data/Exercise-MeqTrees/Sim/* .**

- Init the environment:

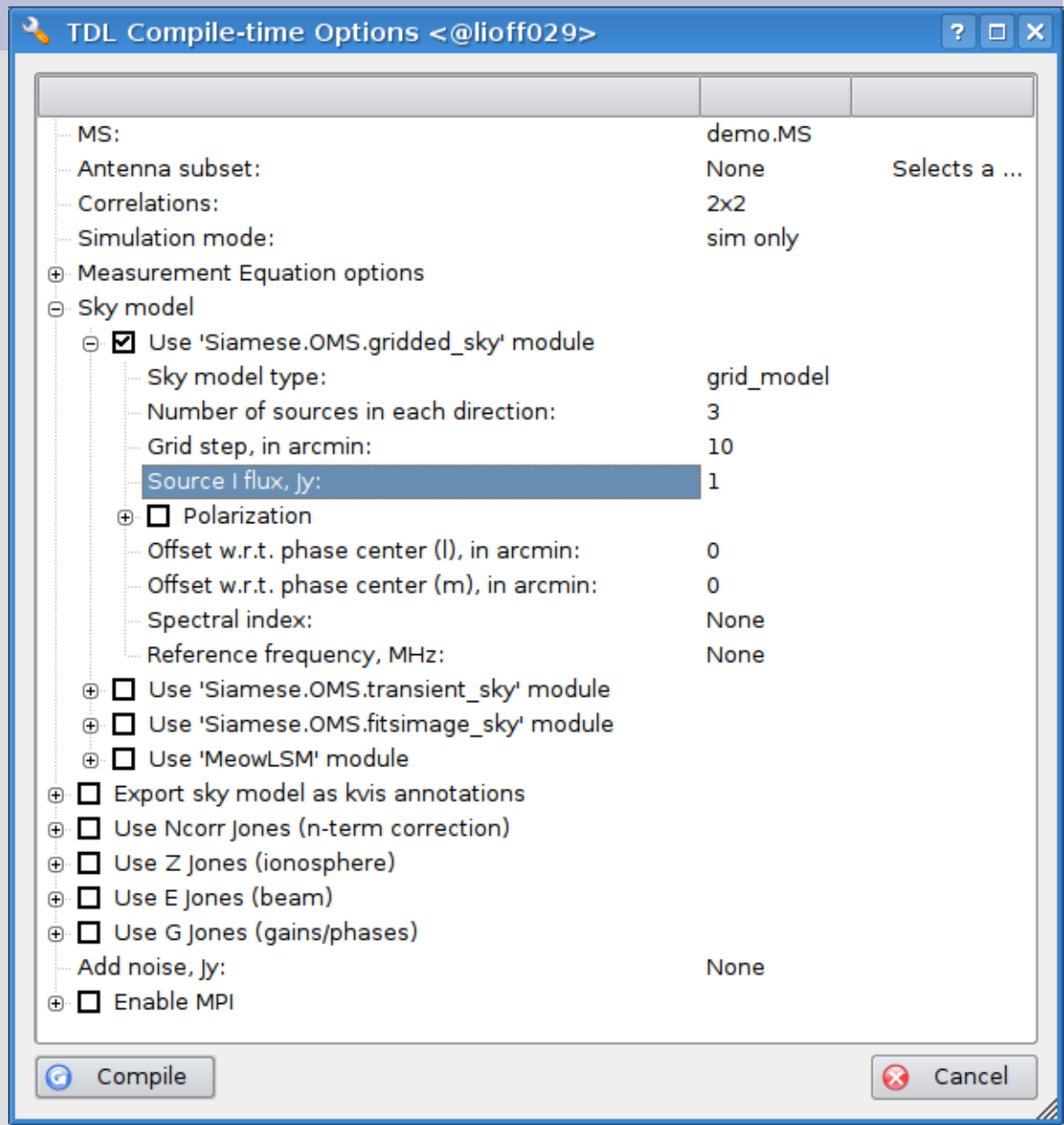
**> source meqtree-init.csh**

- Start it up!

**> meqbrowser.py**

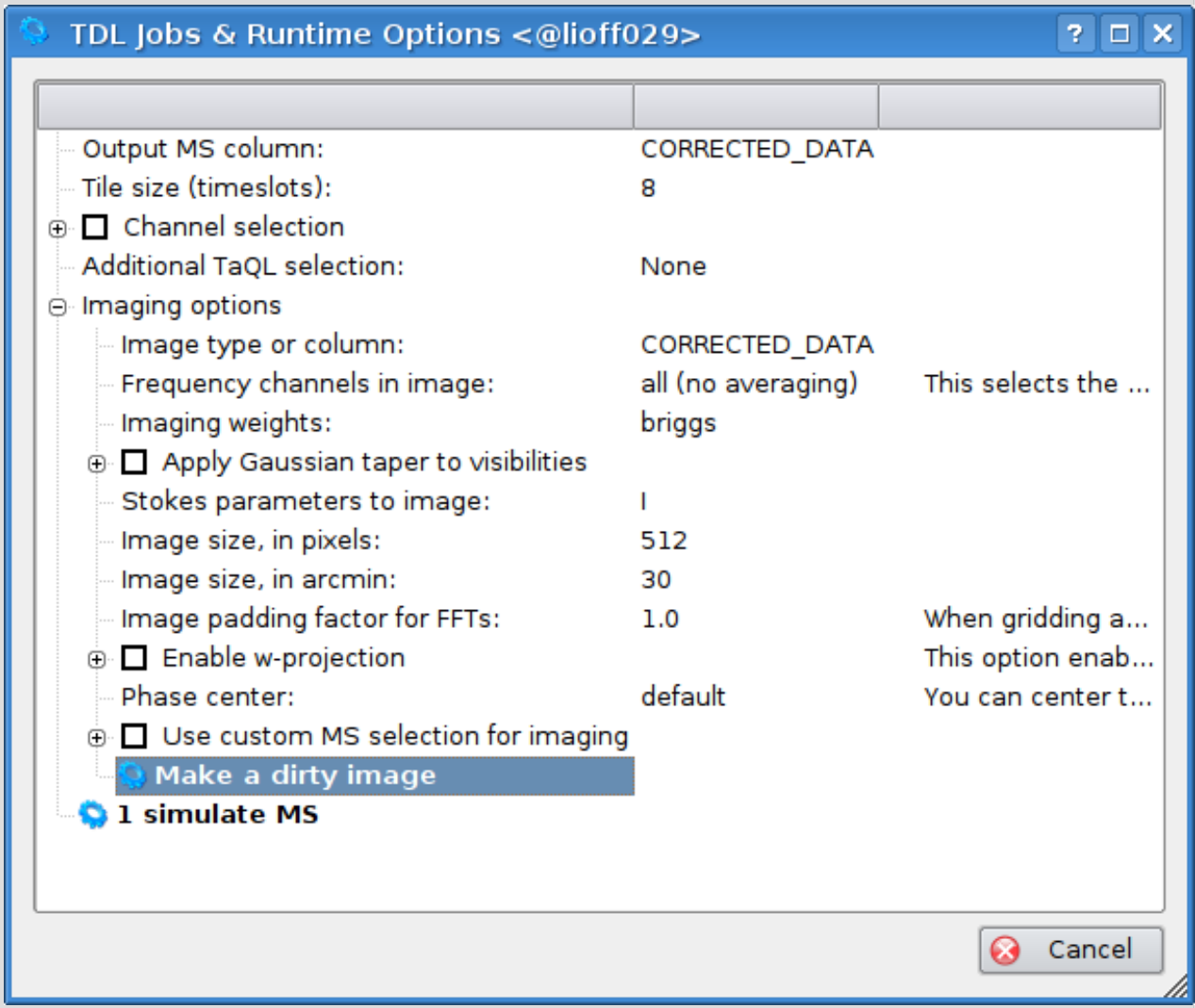
# First Sim

- Go to TDL > Load TDL Script (or just press Ctrl+T)
- Load up exercise-sim.py
- Set up options:
- Click “Compile”



# First Sim, cont'd

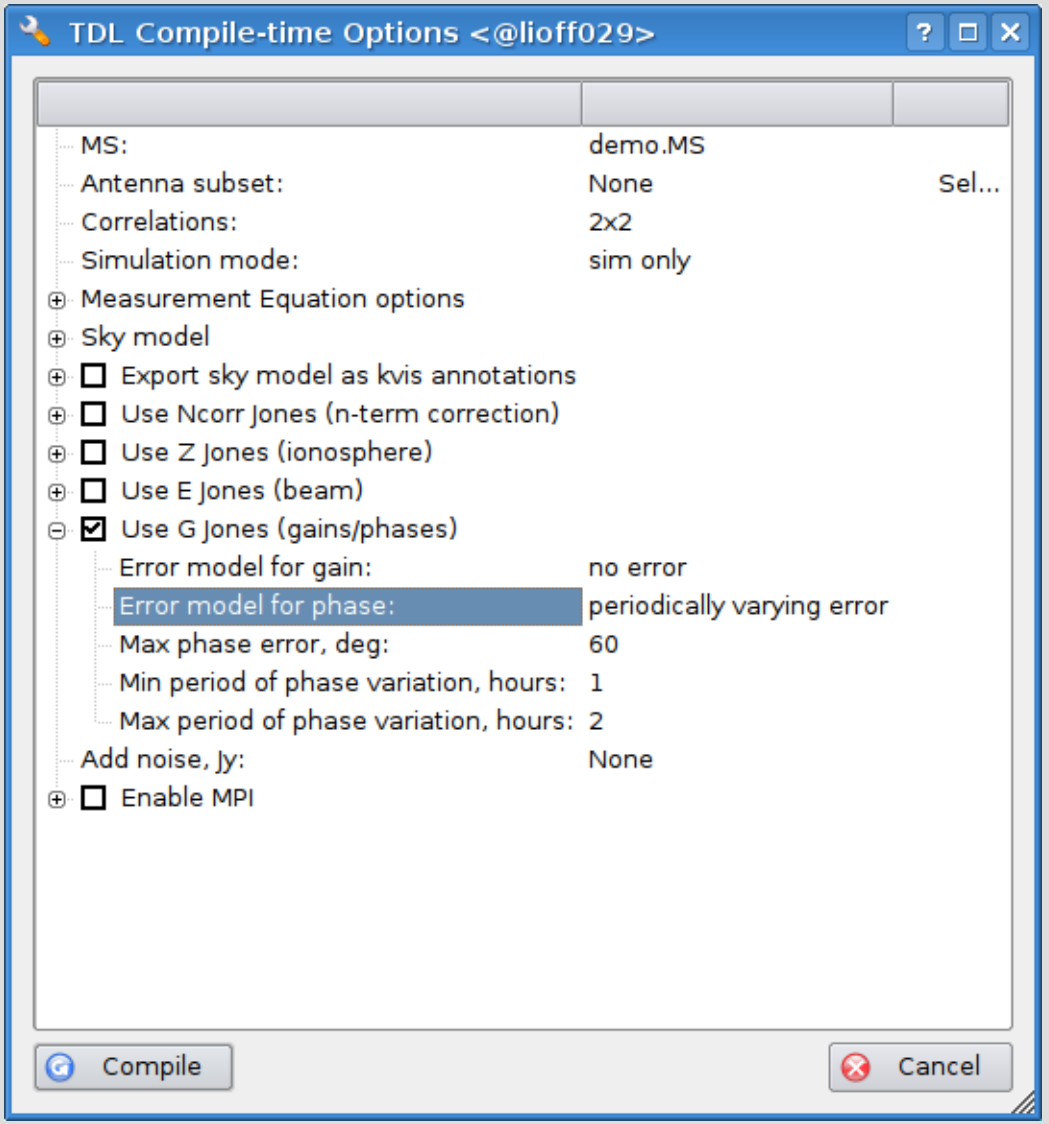
- Click “simulate MS”
- Set up options:
- Click “Make a dirty image”



# Adding Phase Errors

- Enable “G Jones” in compile options:
- Compile
- Open bookmark!

- Run “simulate MS” and make another image

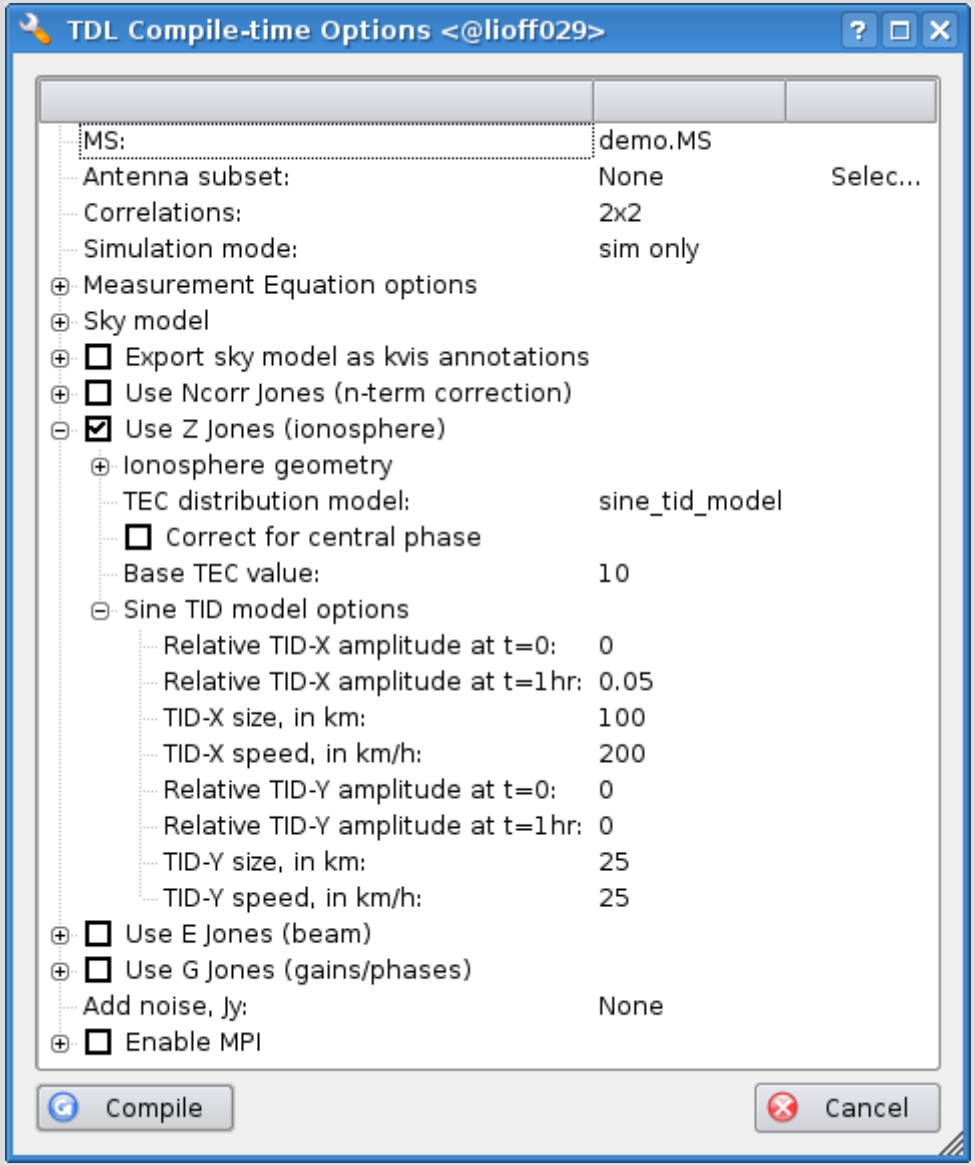


# Increasing Phase Error

- Increase phase error to 120 degrees
- Simulate MS, make another image

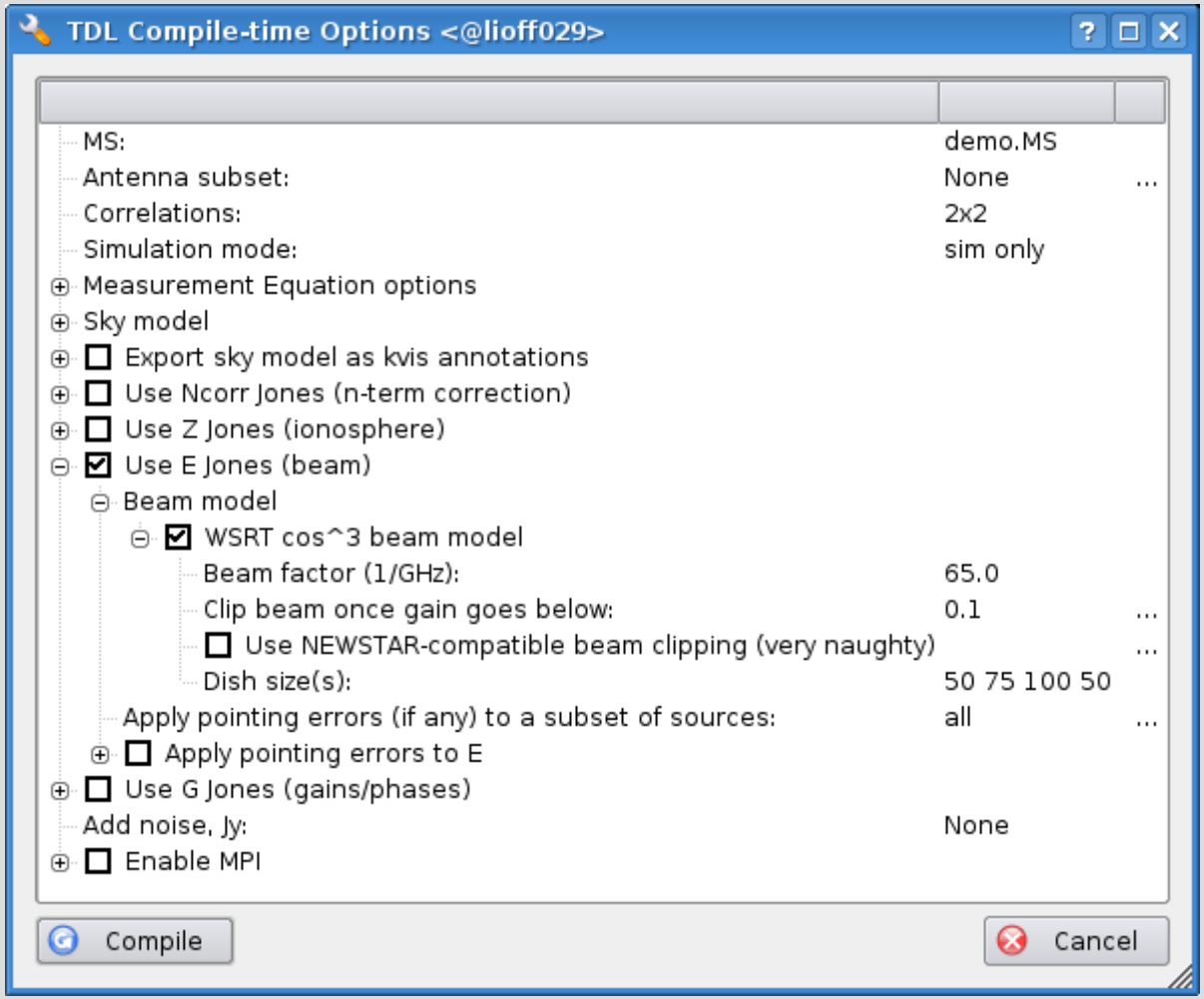
# Adding An Ionosphere

- Enable Z Jones, disable G Jones
- Open some bookmarks
- Simulate MS, then make an image



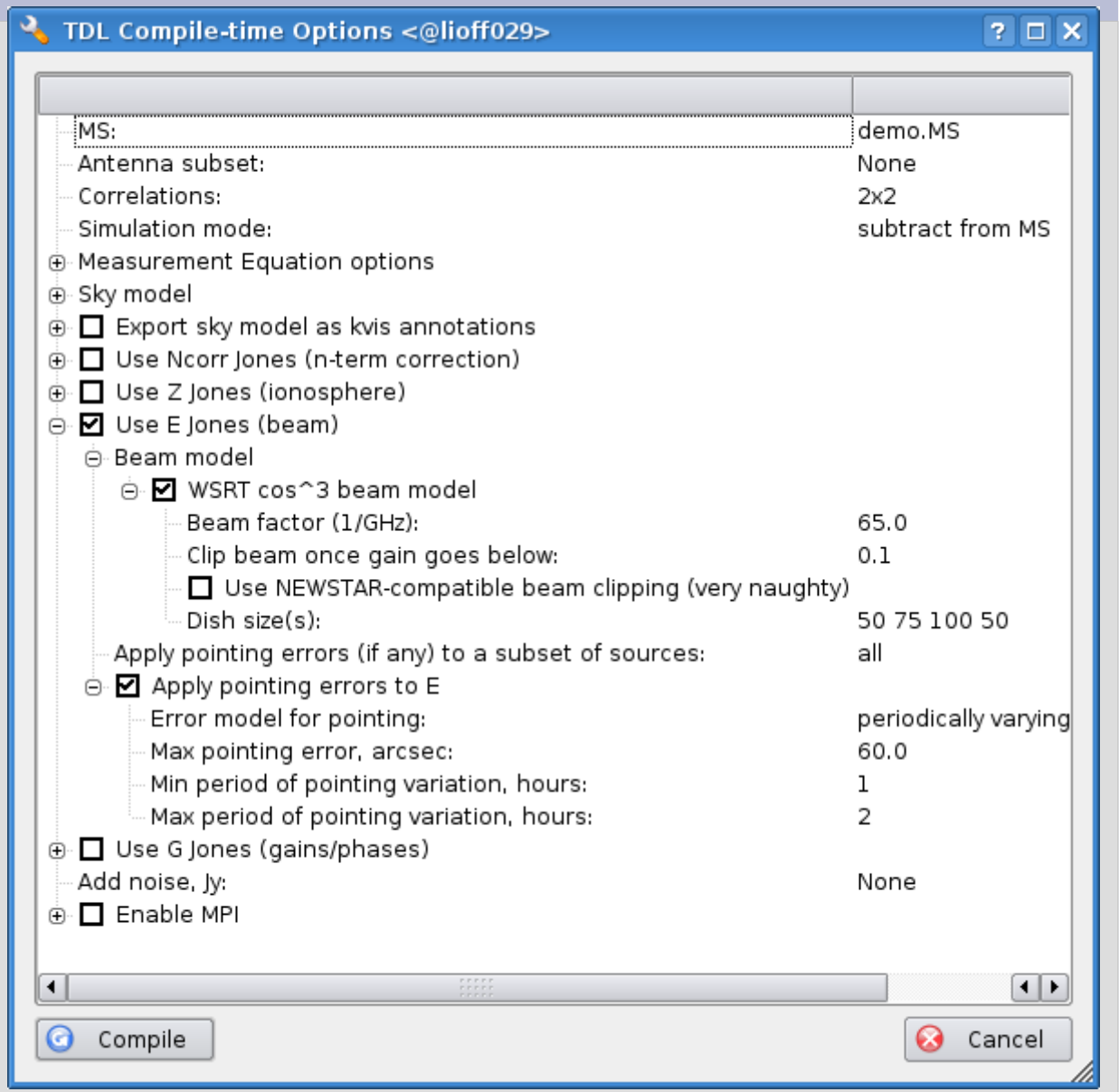
# Adding a Primary Beam

- Add E Jones, remove Z Jones:



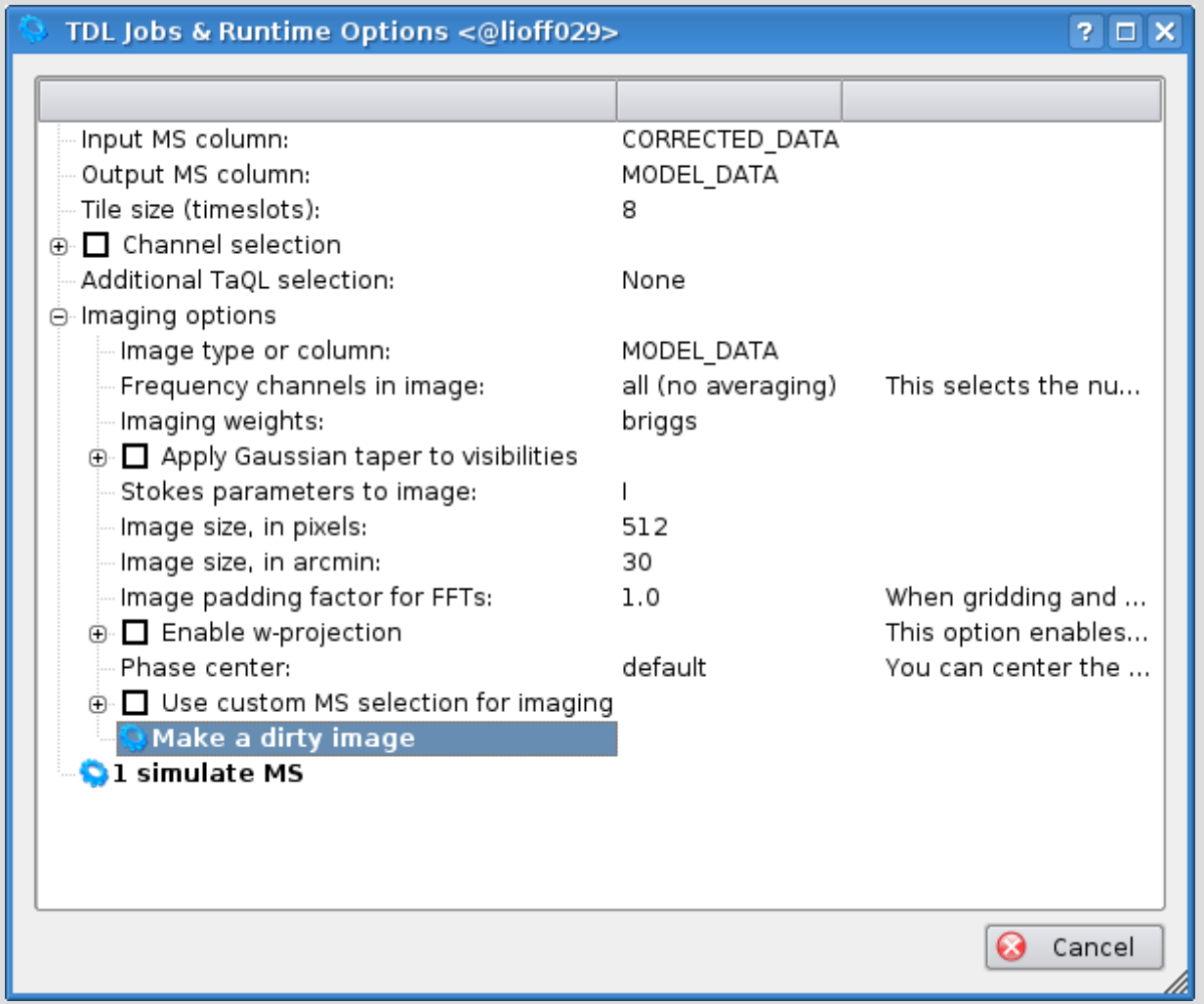
# Adding Pointing Errors

- Set simulation mode to “subtract from MS”
- Enable pointing errors:
- Compile...



# Adding Pointing Errors, cont'd

- Set input and output columns correctly before running the sim:



# Free-for-all

- Time left? Play with the other options...