

Data and pictures

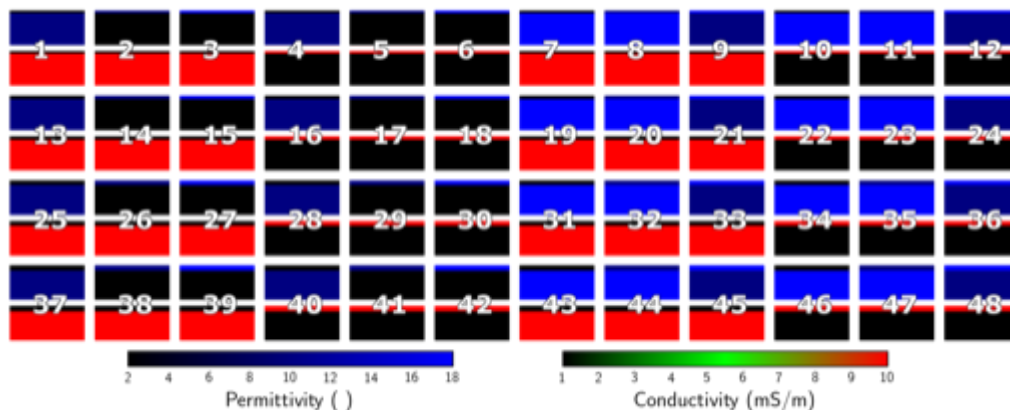
You should be in `models-ml/scripts/`.

1. Run all desired forward models, `[w,dc,wdc]_fwd_2l.m`. If you want testing data run `wdc_fwd_test.m`.
2. Get all data in local, `.././../download_ml.sh`
3. If `dc` in previous step then `dc2voltagrams.m`
4. Make pics with `dc2pics.py` and/or `w2pics.py`
 - if both in previous step then `im2rgb.py`
5. `just_pics.sh` puts all pictures in one big folder so baby tensorflow can read it
6. `ml_2l.py` for training the learning machine
7. Render the different subsurface models
 - `models2mat.m` builds `mat` files for training
 - `models2mat_.m` builds `mat` files for testing
 - `models2pics.py` builds pictures from `mat` files
 - `model-pics.sh` moves pictures to a directory of their own in `../data-set/`
 - `see_models.py` makes pictures with no legends for thumbnails
8. Make tiny thumbnails for the data and the models, `thumb_grid.py`.

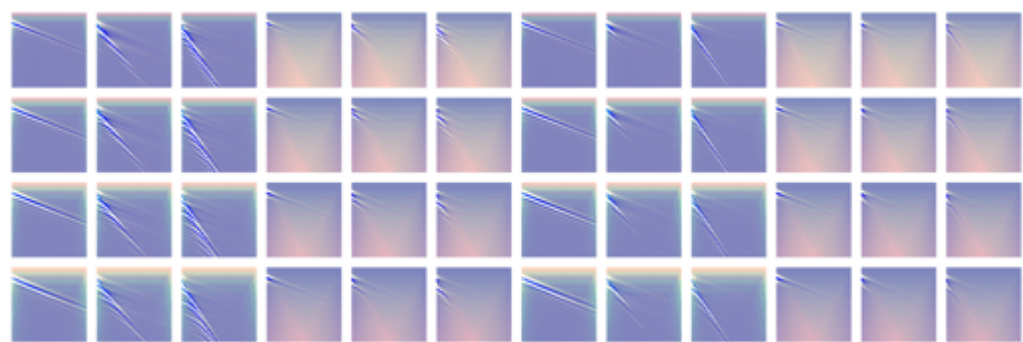
The shell script `data2ml.sh` automates steps 3-5 and 7-8.

Training example

Models

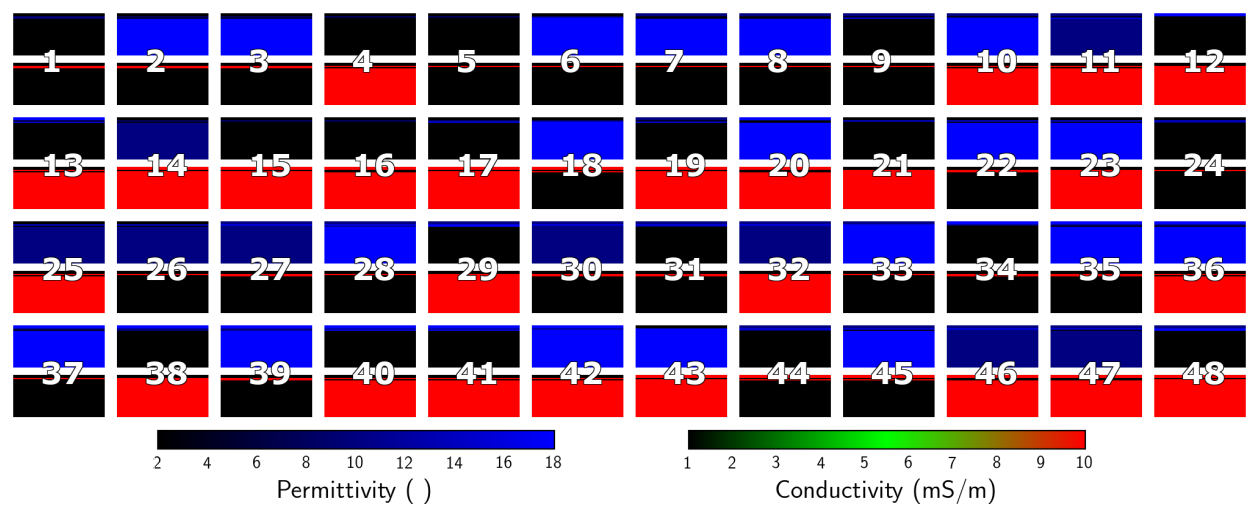


Data



Testing example

Testing Models



Estimated Models

