Building synthetic models

1. **image2gerjoii.m**

   True epsi and sigm:

   `epsi.mat, sigm_w.mat, sigm_dc.mat`

2. **image2gerjoii.m**

   Do true epsi but without top layer:

   `epsi_notop.mat`

3. **smooth_true.m** (optional)

   Smooth true-epsi:

   `epsi_smooth.mat`

4. **smooth_true.m**

   Smooth `epsi_notop.mat`:

   `epsi_notop_smooth.mat`

5. **smooth_boundary.m**

   Put top layer on `epsi_notop_smooth.mat` and smooth again, but less.

   Result is 4% less than true values.

   `epsi_top_smooth.mat`

6. **smooth_boundary_interp.m**

   Interpolate `epsi_top_smooth.mat` to make smooth sigm-w and sigm-dc:

   `sigm_w_top_smooth.mat, sigm_dc_top_smooth.mat`

True models

ls nature-synth/mat-synth/

`epsi.mat` : with top layer
`sigm_w_.mat` : with top layer
`sigm_dc_.mat` : with top layer
`epsi_notop.mat` : without top layer

Initial models

ls nature-synth/initial-guess/

`epsi_notop_smooth.mat` : without top layer but smoothed
`epsi_top_smooth.mat` : top layer added & smoothed (less smoothed)

`sigm_dc_top_smooth.mat` : interpolated from `epsi_top_smooth.mat`

`sigm_w_top_smooth.mat` : interpolated from `epsi_top_smooth.mat`

Uploading to server

cd ../../

sh push_param.sh
