Figures from final result down to the first estimate.

output_dir =

    "output/20250614T064950_s1_2018-06-21_good/"

show solution

file =

    's1_2018-06-21_14_solrso.mat'

mic positions (in channel order)
  Columns 1 through 7

```
 -2.5356   -2.9853   -2.7320   -1.8633   -3.0674   -2.8258   -1.7113
 -2.7211   -3.7417   -2.4386   -1.9058    0.3114   -0.2262   -0.1982
 -1.9500   -2.4580   -0.7562   -2.7829   -0.4191    0.2193    0.6720
```

  Columns 8 through 10

```
 -0.7983        0   -0.1730
  0.4941        0   -0.9655
  0.4017        0    0.5001
```
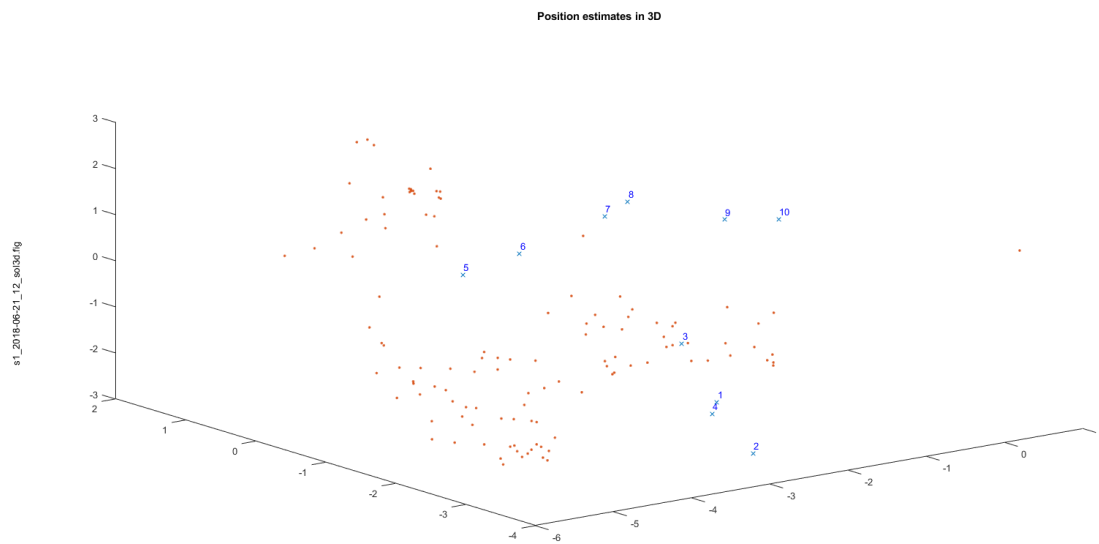
mic order found
```
     8      6      7      9     10      5      3      1      4      2
```
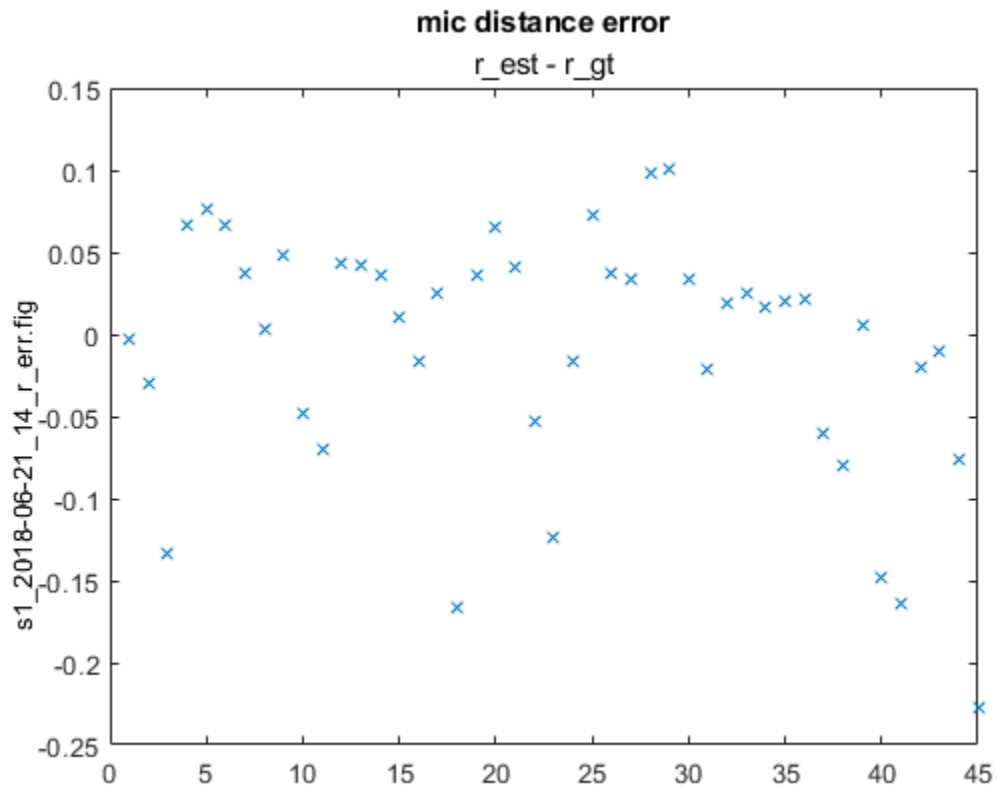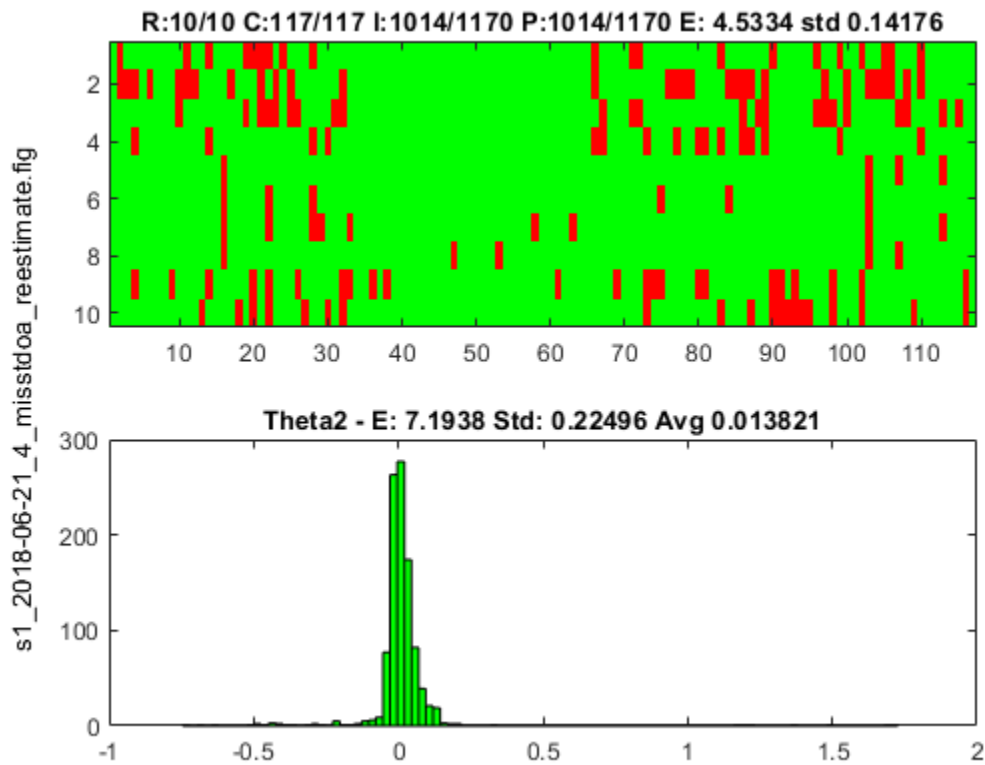
sort high to low

files =
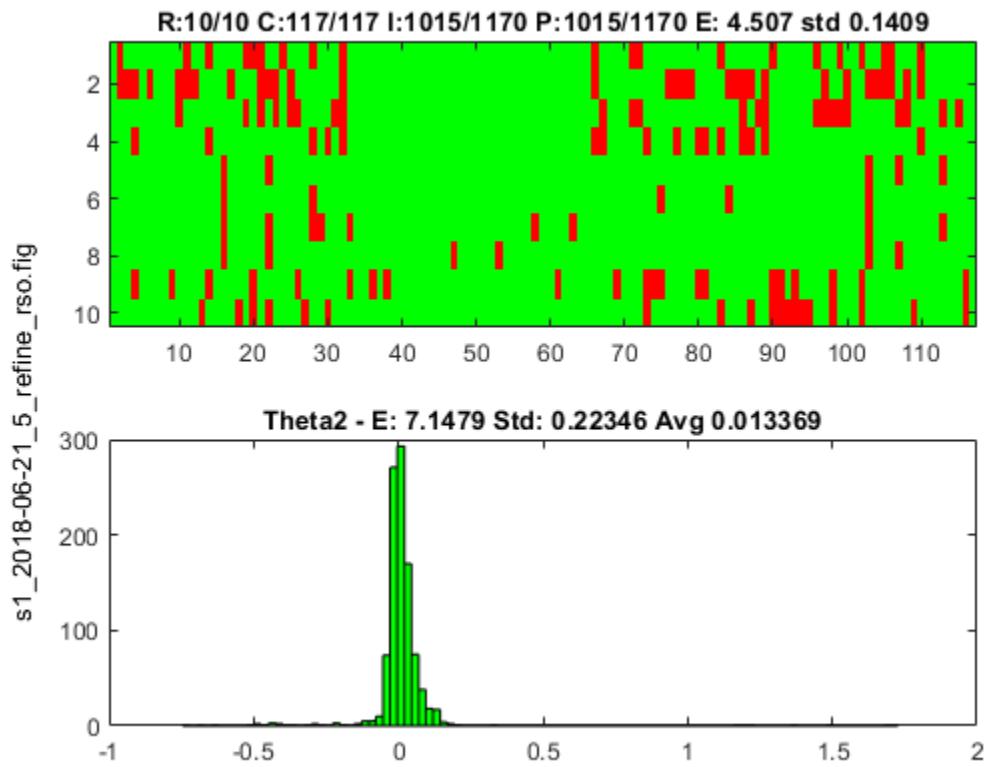
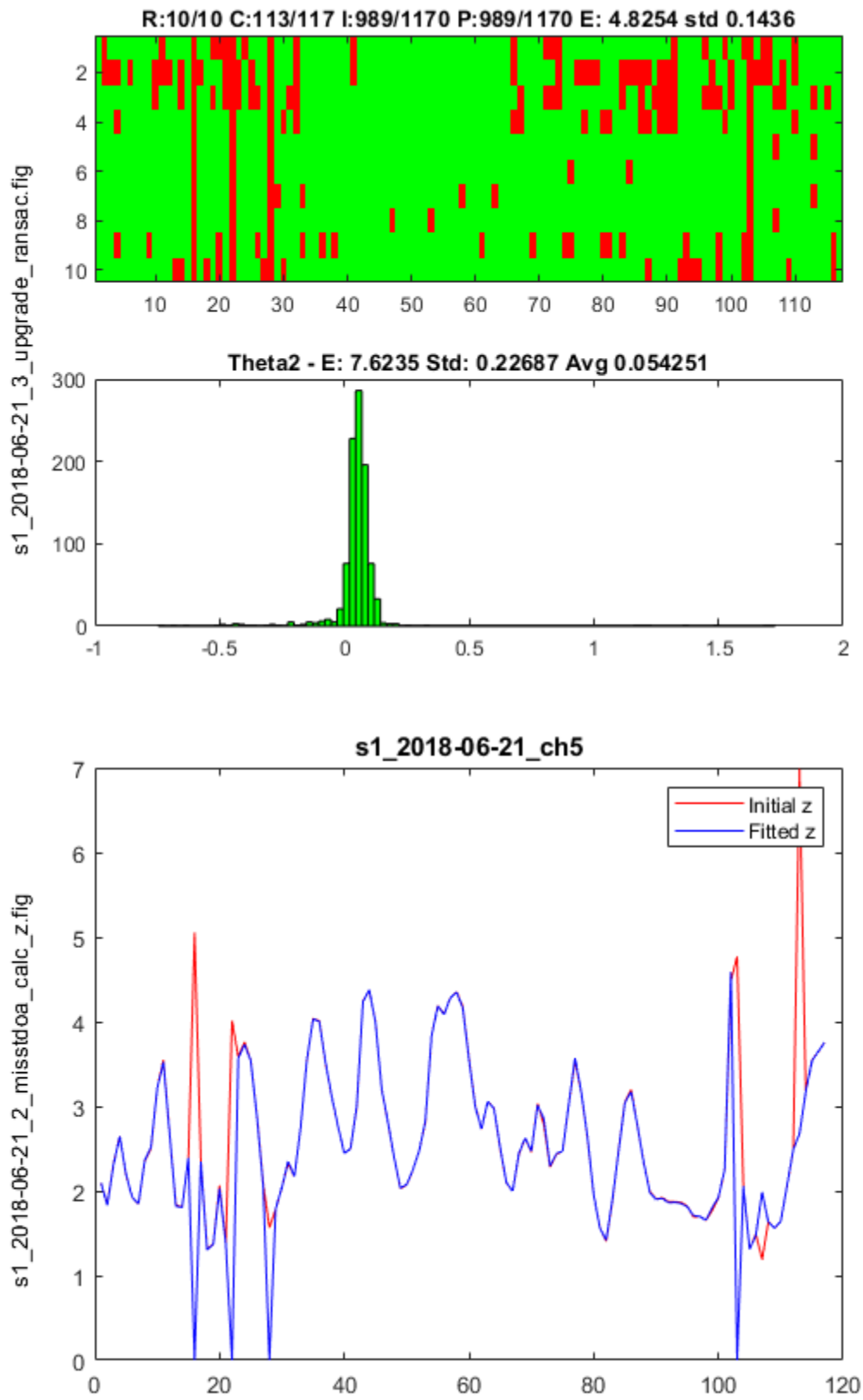 *7×39 char array*

    's1_2018-06-21_14_r_err.fig   '
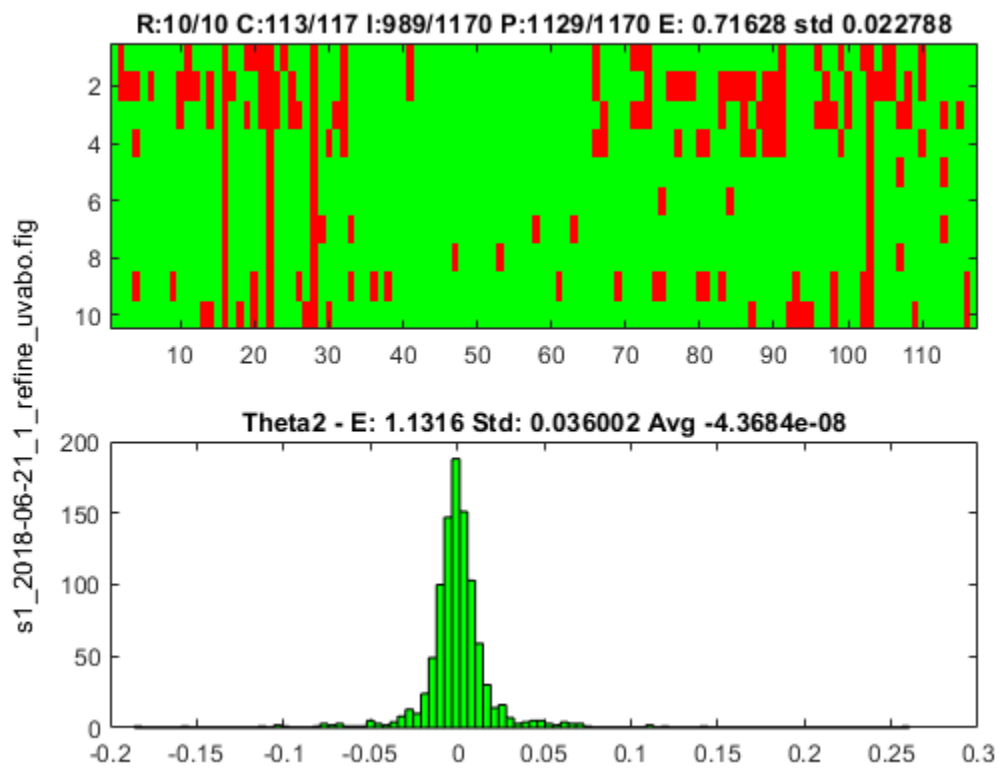   *'s1_2018-06-21_12_sol3d.fig   '*
    's1_2018-06-21_5_refine_rso.fig   '
    's1_2018-06-21_4_misstdoa_reestimate.fig'
    's1_2018-06-21_3_upgrade_ransac.fig   '
    's1_2018-06-21_2_misstdoa_calc_z.fig   '
    's1_2018-06-21_1_refine_uvabo.fig   '

show each figure again

mic distance error

r_est - r_gt

Position estimates in 3D

R:10/10 C:117/117 I:1015/1170 P:1015/1170 E: 4.507 std 0.1409

s1_2018-06-21_5_refine_rso.fig

Theta2 - E: 7.1479 Std: 0.22346 Avg 0.013369

R:10/10 C:117/117 I:1014/1170 P:1014/1170 E: 4.5334 std 0.14176

s1_2018-06-21_4_misstdoa_reestimate.fig

Theta2 - E: 7.1938 Std: 0.22496 Avg 0.013821

R:10/10 C:113/117 I:989/1170 P:989/1170 E: 4.8254 std 0.1436

Theta2 - E: 7.6235 Std: 0.22687 Avg 0.054251

s1_2018-06-21_3_upgrade_ransac.fig

s1_2018-06-21_ch5

Initial z
Fitted z

s1_2018-06-21_2_misstdoa_calc_z.fig

R:10/10 C:113/117 I:989/1170 P:1129/1170 E: 0.71628 std 0.022788

Theta2 - E: 1.1316 Std: 0.036002 Avg -4.3684e-08

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