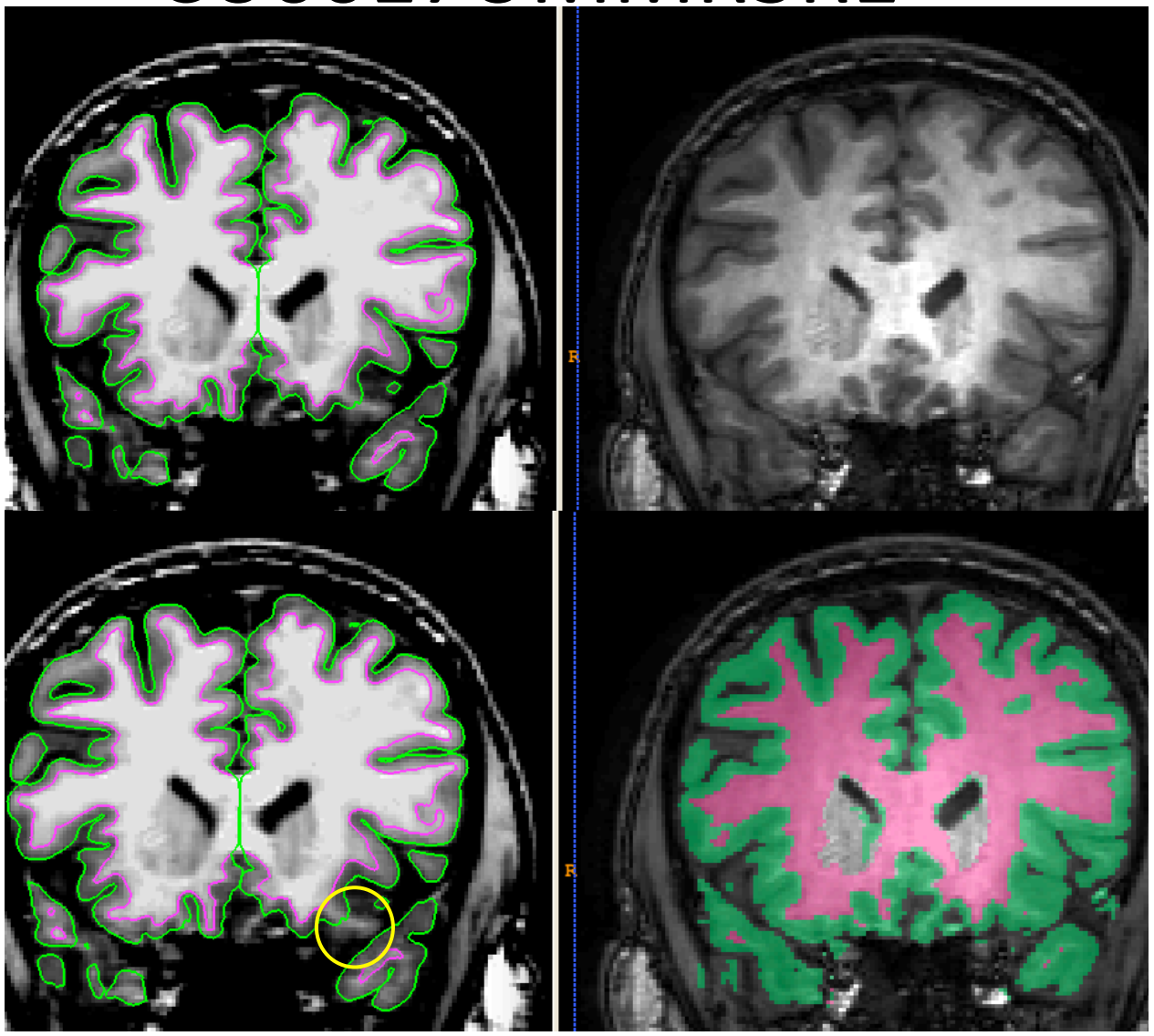
Comparison of Freesurfer and ANTs Segmentation

CU0017UMMR3R1

FREESURFER

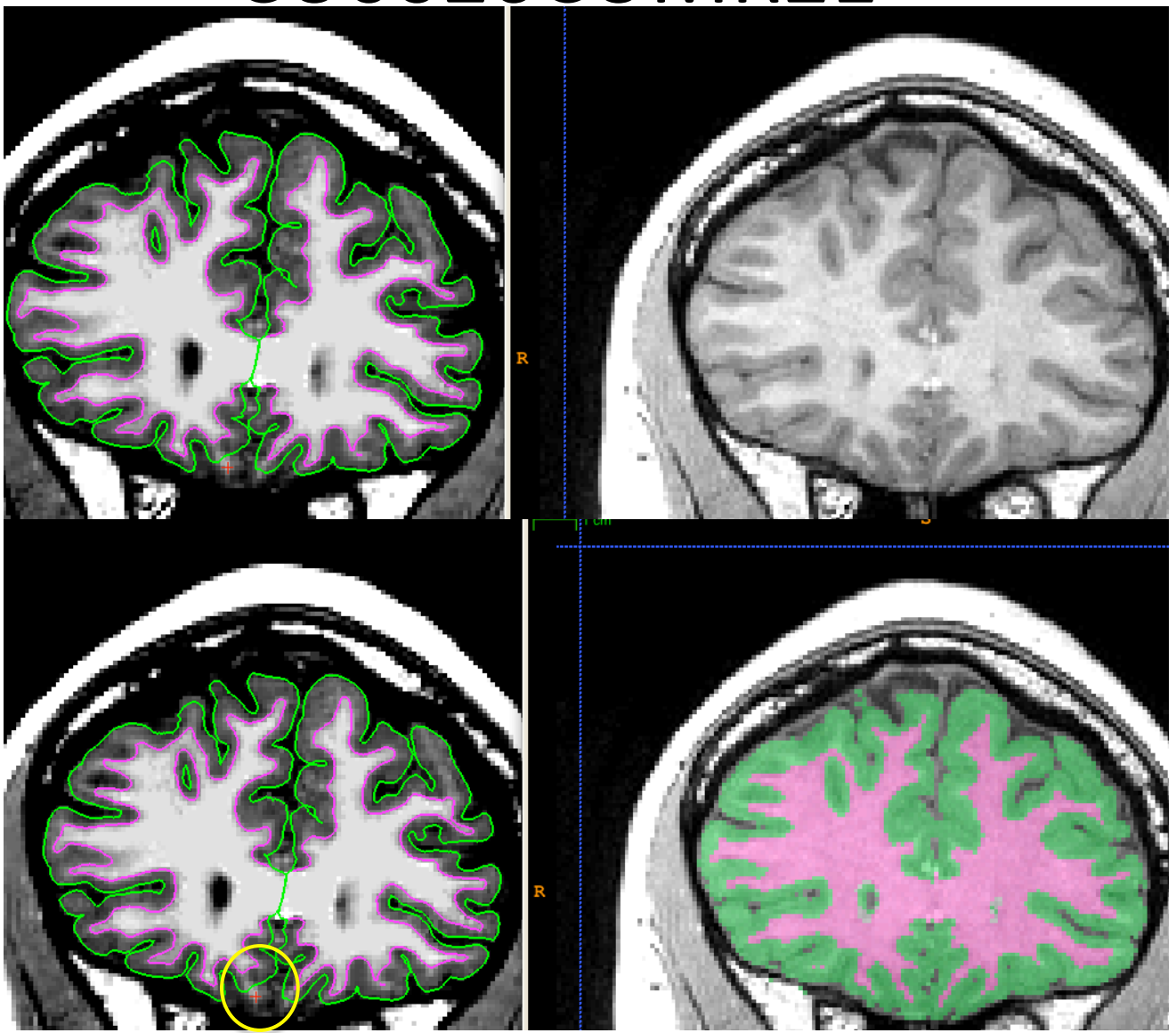


ANTS

- Tony said: considerable portion of lateralorbitofrontal region excluded for 13 coronal slices
- ANTs includes the missing portion of lateralorbitofrontal

CU0026CUMR21

FREESURFER

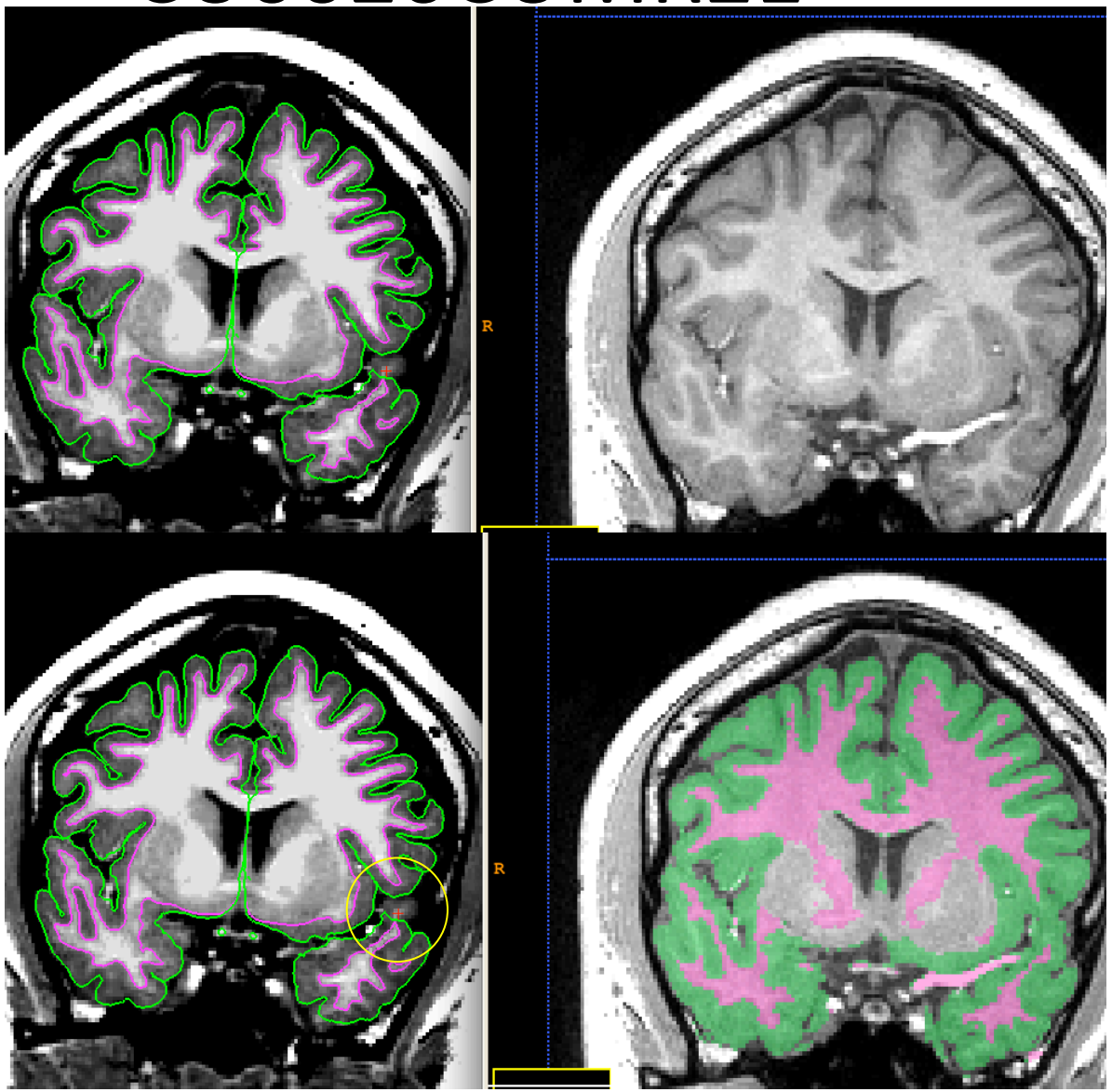


ANTS

- Tony said: segmentation fails to include the inferior part of the right medialorbitofrontal region for 11-13 coronal slices
- ANTs includes the missing portion of right medialorbitofrontal region

CU0026CUMR21

FREESURFER

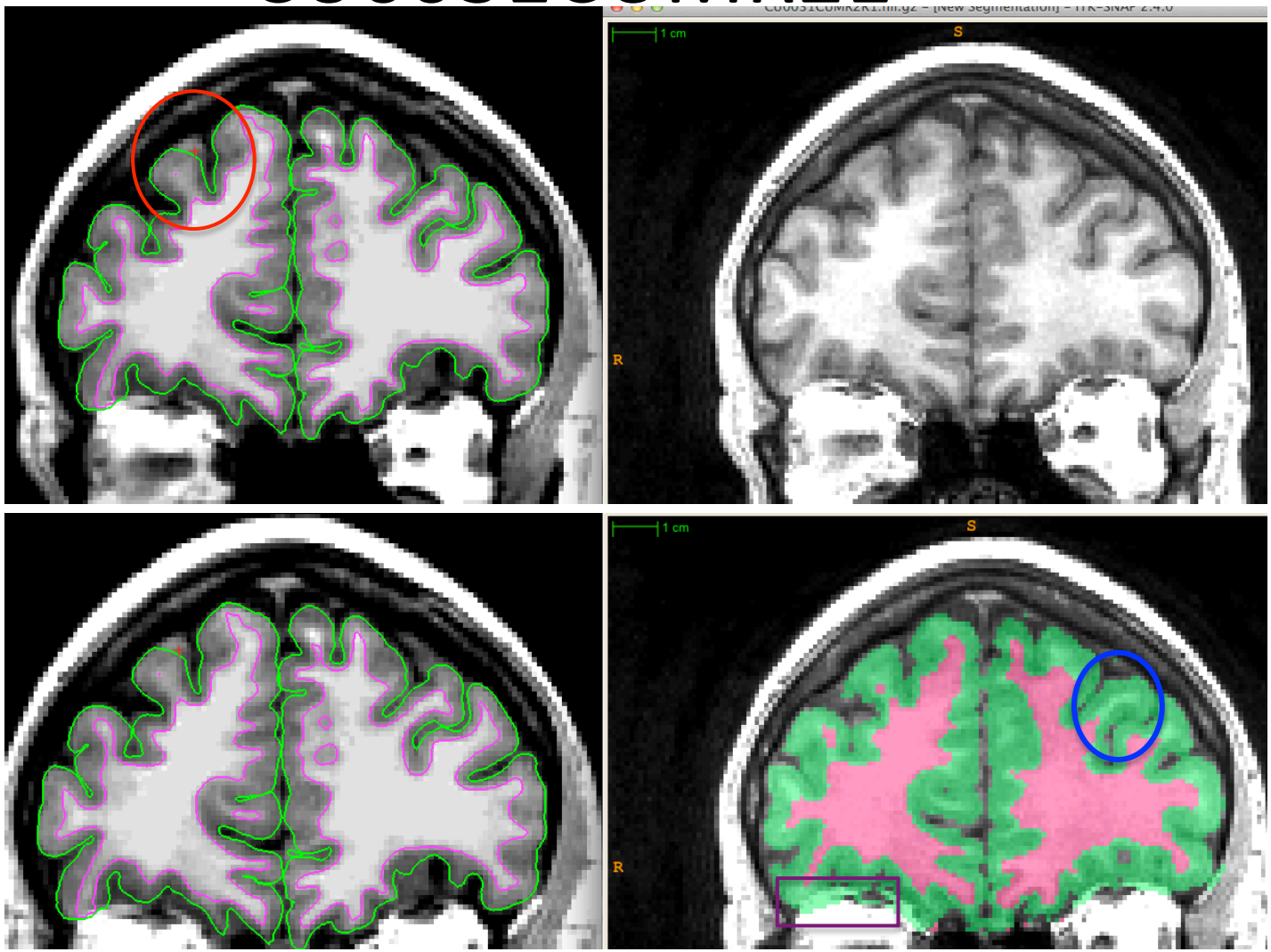


ANTS

- Tony said: left superiortemporal region missing for ~15 coronal slices
- ANTs includes the missing area

CU0031CUMR21

FREESURFER

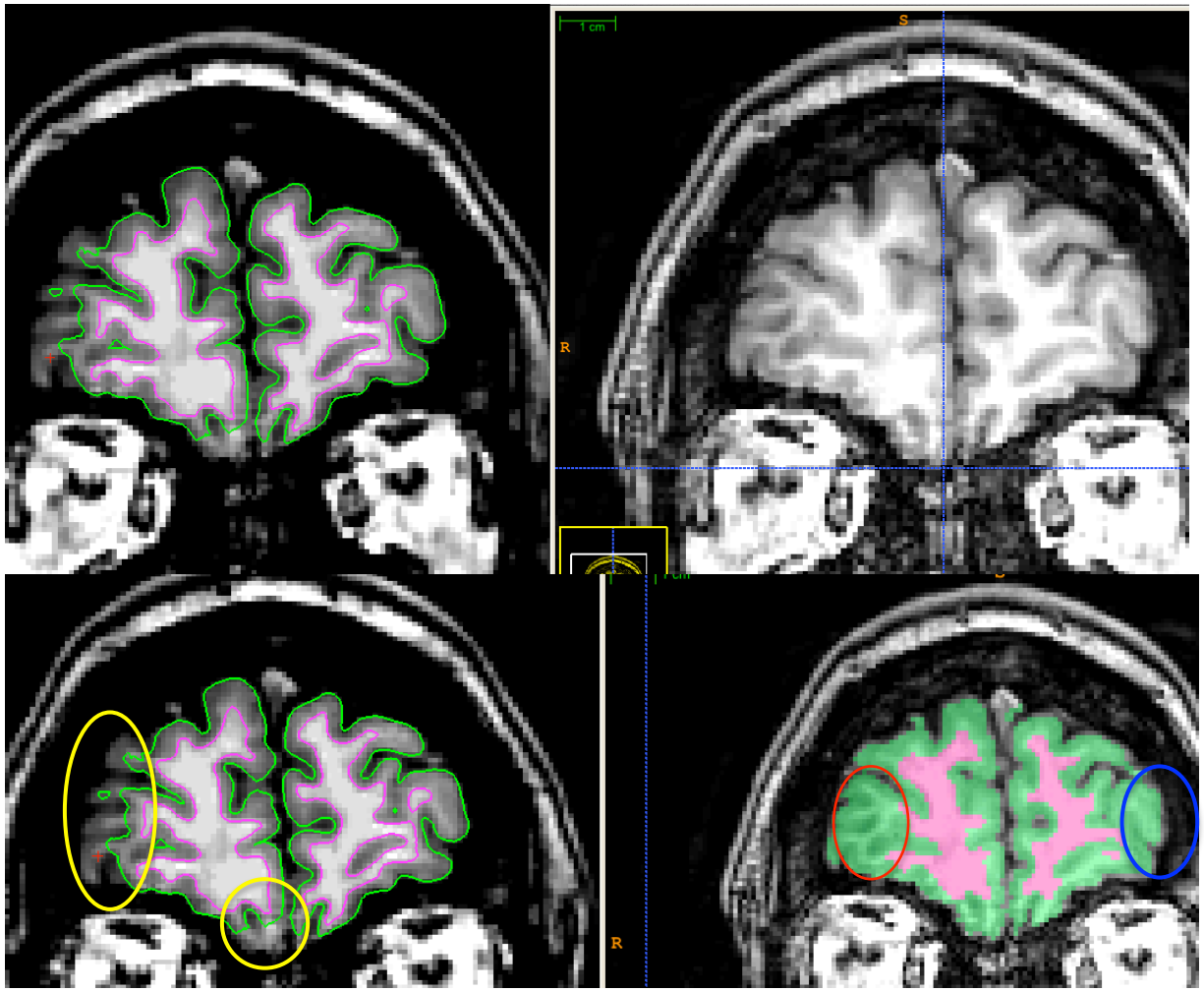


ANTS

- ANTs segments the brain better than FS
- ANTs is NOT as good as FS in segmenting WM; we can combine ANTs brain segmentation with FS WM segmentation to improve results
- ANTs sometimes suffers from over inclusion

TX0061TXMR2R1

FREESURFER



ANTS

- ANTs includes the missing right part of the brain
- ANTs brain segmentation is not perfect; combine with FS
- Missing WM can be filled in using the paint brush tool in ITK snap; this approach is better than repositioning surfaces in FS