# GeoRZA

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# Mobile app details

#### User input

- peak frequency
- depth to top of layer and thickness
- max offset

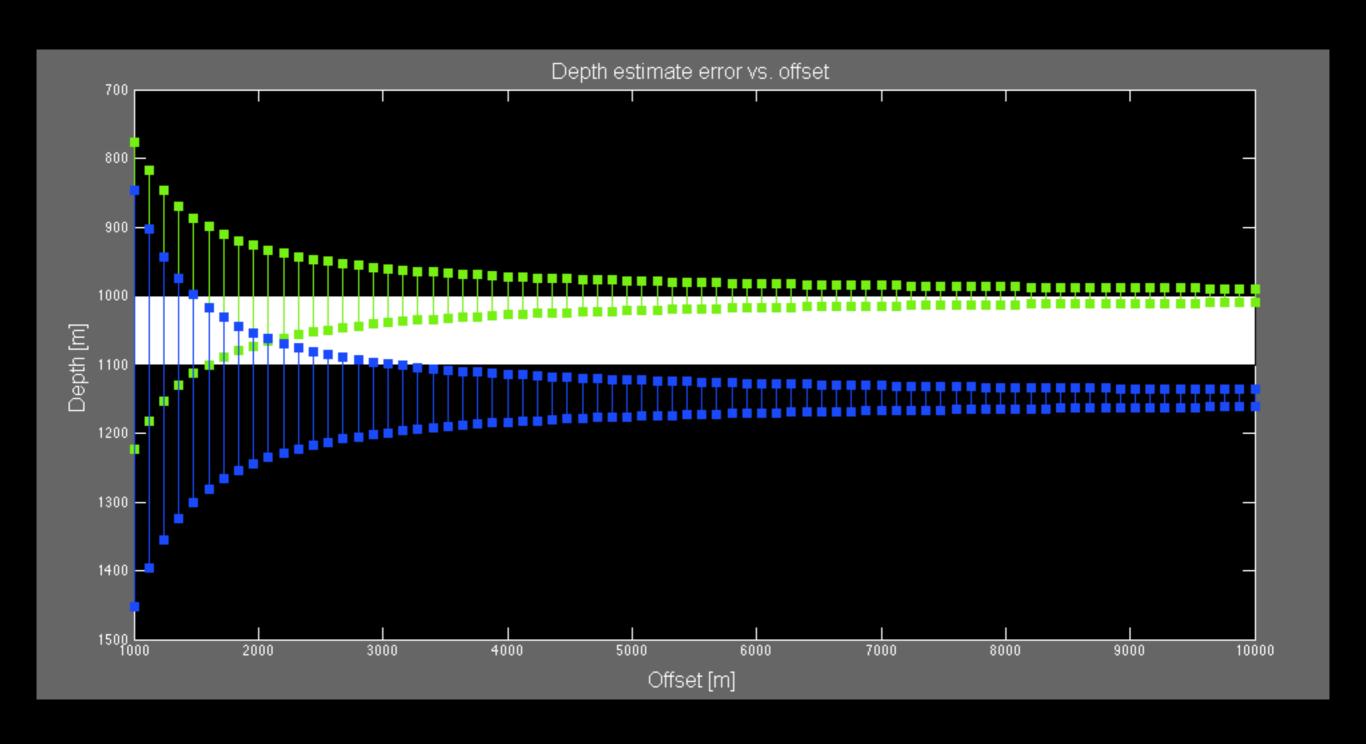
#### Output

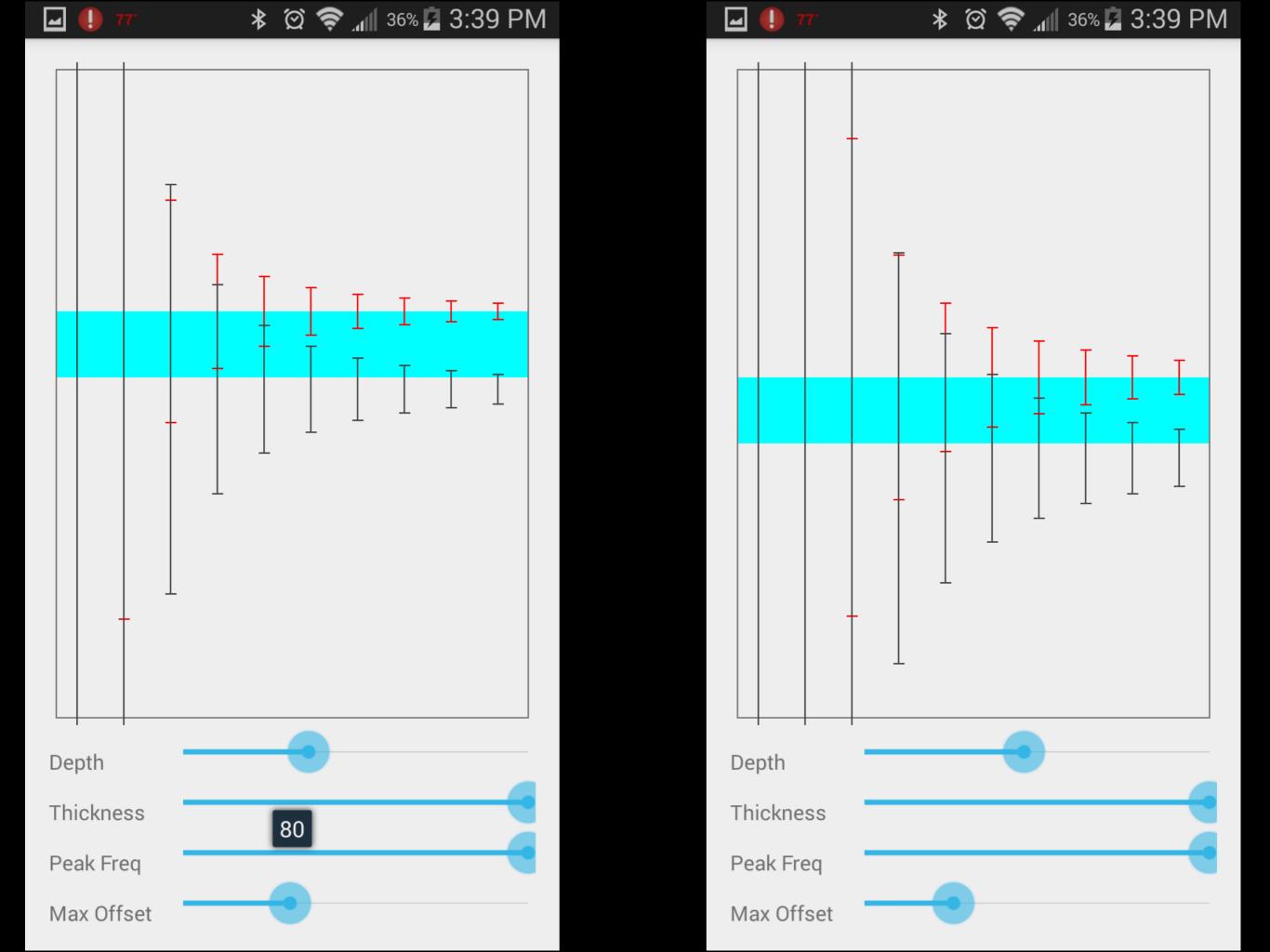
 bounds on top and bottom of layer displayed on schematic image

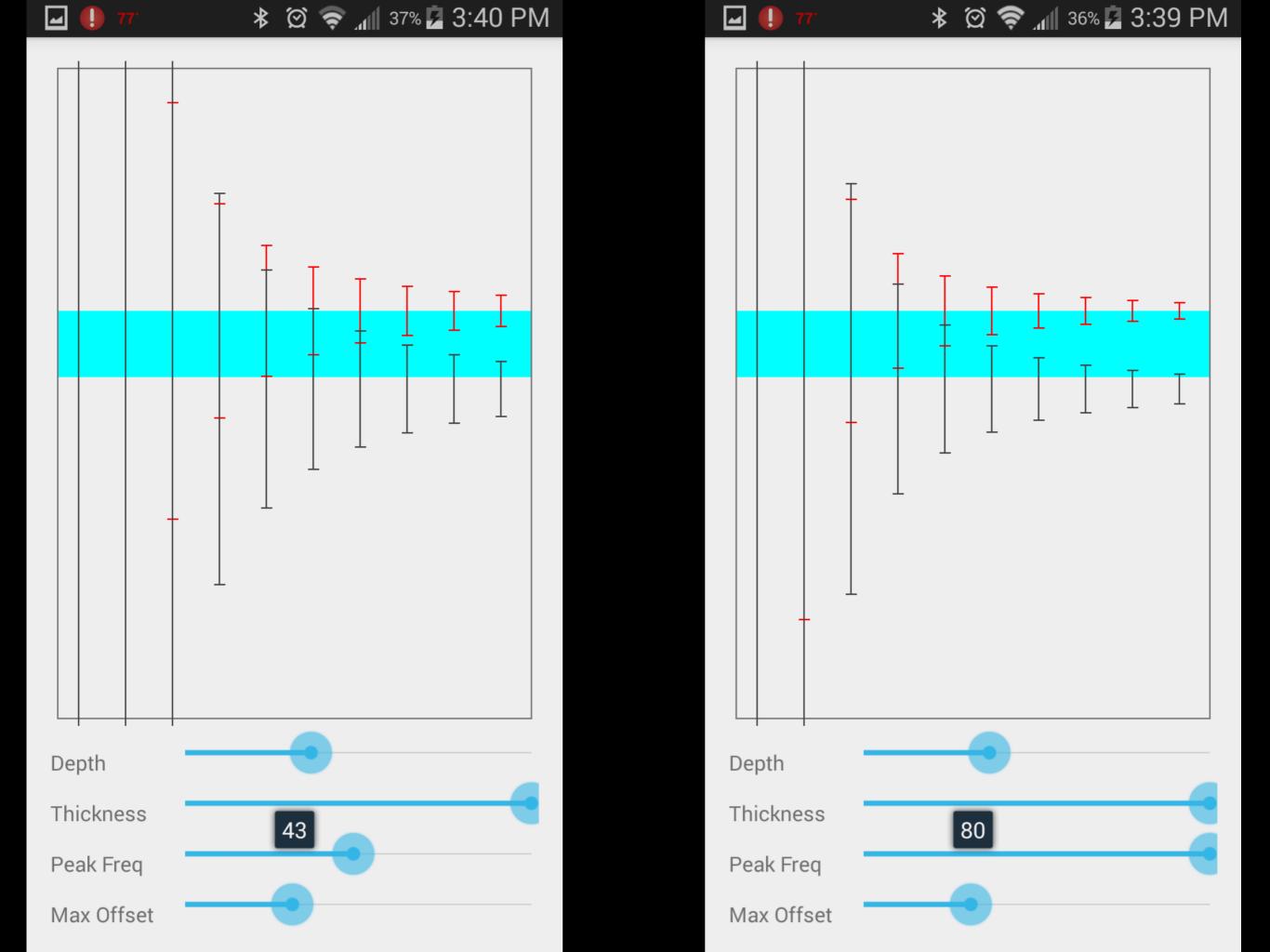
#### Assumptions

- no ray bending, attenuation, multiples
- 1D boxcar wavelet
- constant velocity
- Android OS

# Concept







### Future work

- Pretty stuff
  - Scale bars
  - User supplied velocity
  - Highlights areas where assumptions are violated

- Fancy stuff
  - Snell's law
  - Multiple (dipping?) layers
  - 2D wavelet
  - Spatially varying velocity