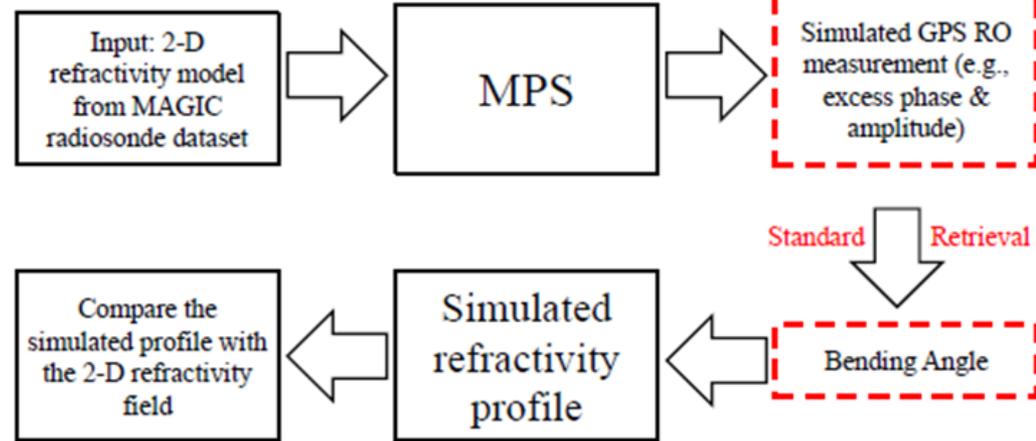
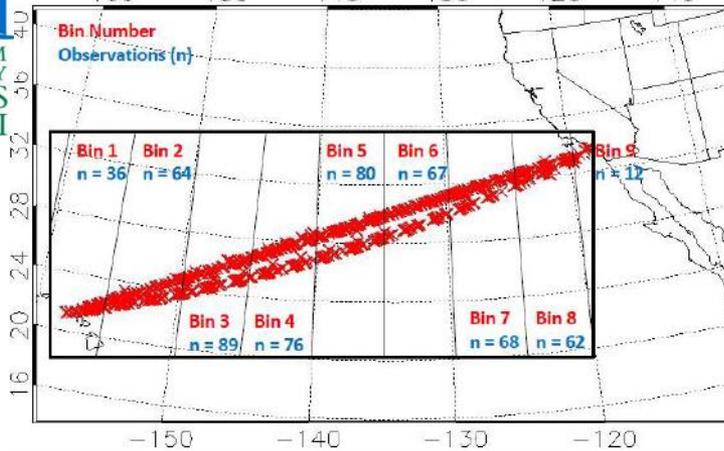


Evaluating the Impact of Horizontal Inhomogeneity of the PBL on GPS RO Across the Northeastern Pacific Ocean

(Thomas Winning, C. O. Ao, F. Xie)



- 2-D atmospheric model from 555 radiosonde observations separated into 5° longitudinal bins
- Model atmosphere of 0.5° horizontal resolution created via interpolation between each mean value

- Five separate Multiple-Phase-Screen (MPS) simulations, each centered on a different bin
- For each of the five MPS simulations, the difference between the simulated refractivity profile and the corresponding 2-D model profile at bin center increases from west to east.
- For each MPS simulation, the difference between the simulated refractivity profile and the 2-D model profiles at $\pm 0.5^\circ$ & $\pm 1^\circ$ offset from center decreases from west to east.

