Uncertainty budget for radar freeboard along track and gridding processing

Random
- Sea-level anomaly $\sigma^2_{\text{FBrR}} = \sigma^2_{\text{LA}} + \sigma^2_{\text{Speckle}}$
- Speckle noise

Systematic
- Retracker choice
- Surfaces roughness

Myrhaug et al. (2014)

Training period: common flight period

Hypothesis of Gaussian distribution

Prediction: per month

Predicting NxM grids for each month

Probability density

For CS-2

For 3S-2

Hypothesis of Gaussian distribution

Landy et al. (2020)

Training M MLP

Output

(a)