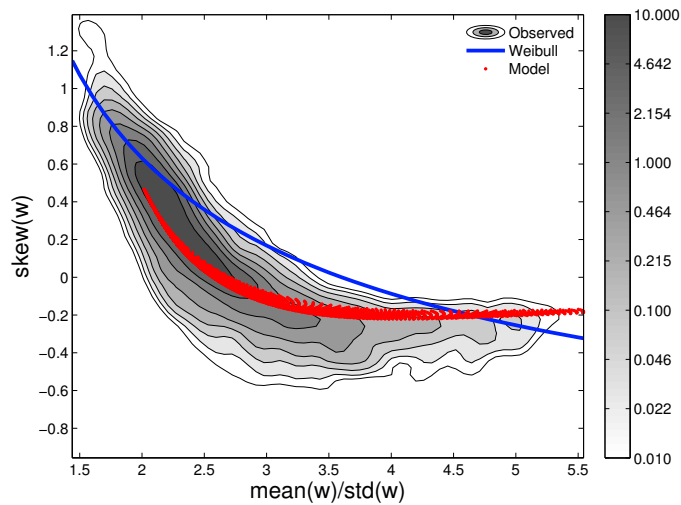


Mechanistic Model: Comparison with Observations



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Case Study: Conclusions

- Sea surface wind pdfs characterised by relationships between moments
- These moment relationships reflect physical processes producing distributions
- Idealised stochastic models can be constructed from basic physical principles to (qualitatively) explain physical origin of pdf structure
- More accurate quantitative simulation requires a more sophisticated model; qualitative utility of relatively simple model suggests it captures essential physics

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