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**UBC ATSC 303 Lab 10**

**Eddy Correlation and Sensible and Latent Turbulent Heat Fluxes**

1. Timeseries of the raw data
2. Mean values are as follows:

Average U is 2.4259

Average V is -1.2518

Average W is -0.0967

Average TEMP is 28.4918

1. Perturbation timeseries
2. Mean value of each perturbation:

Average U' is 2.4259

Average V' is -1.2518

Average W' is -0.0967

Average T' is 28.4918

1. Variance of U is 1.8589

Variance of V is 1.7282

Variance of W is 0.4779

Variance of T is 0.7337

discuss if the turbulence is isotropic or not

TKE is 2.0325

1. Turbulent Intensity of U is 0.562

Turbulent Intensity of V is -1.0502

Turbulent Intensity of W is -7.1471

Turbulent Intensity of T is 0.0301

The turbulent intensity is greatest in the W direction.

1. Nn
2. Turbulent Heat Flux is 0.3086 J m-2s-1.