

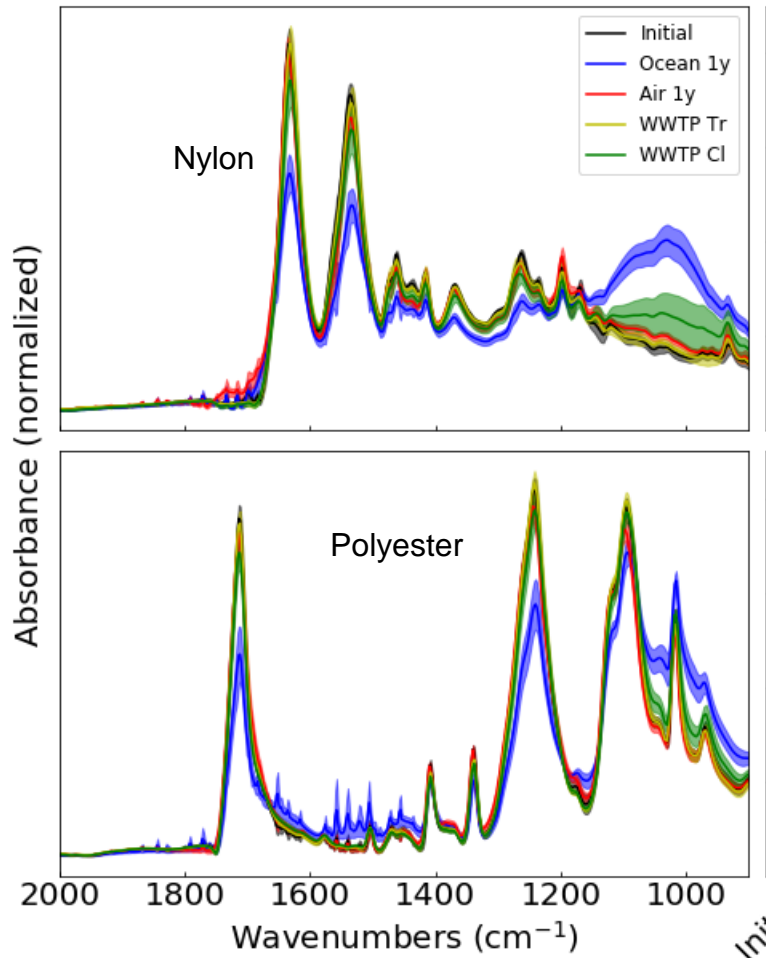
# FTIR spectroscopy of weathered textile fabrics

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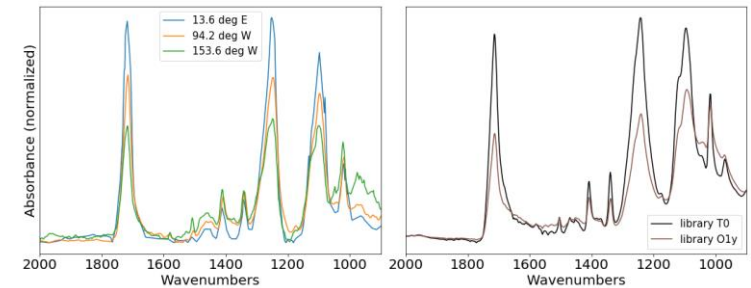
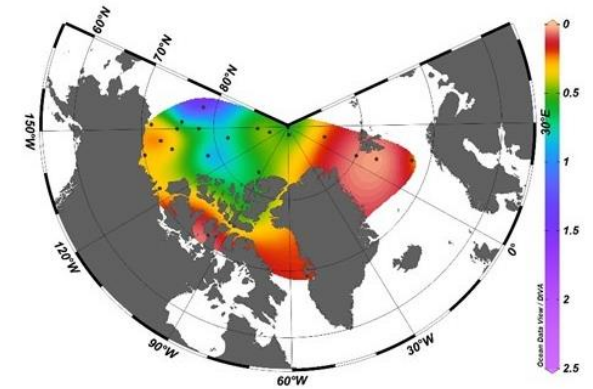
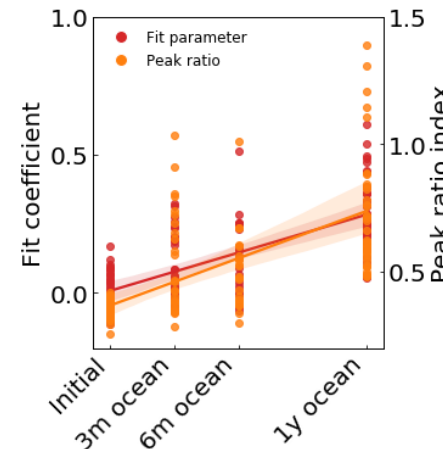
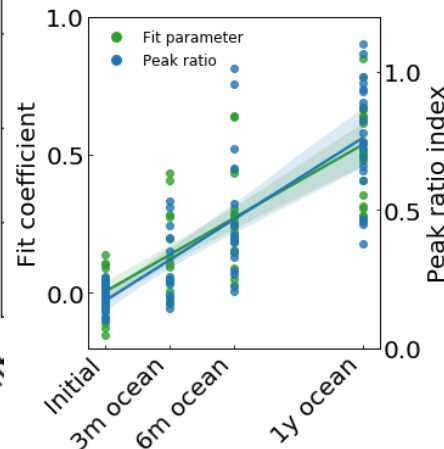
We studied FTIR spectra of different textile materials exposed to different environmental conditions.

Some material/condition combinations show statistically significant changes:

- Nylon vs Ocean
- Polyester vs Ocean

Others show no significant changes:

- Nylon vs Air
- Polyurethane vs. Ocean



These changes can be quantified as metrics holistically or using specific features, and thus can be used to estimate life-story of environmental microfibers