

DEPARTMENT OF PHYSICS, FST
Seminar Series: 2025/2026

Assessing Caribbean Station Wind Speed Data with Gridded Climate Datasets

Presenter: Ms. Nkese McShine
Date: Thursday 12th March, 2026
Time: 11:00 a.m
Venu: FST 414

Zoom link

[https://sta-uwi-edu.zoom.us/j/97002231762?
pwd=gfabYlFiK9bGMuEXvJ8D4jP9TDnzJM.1](https://sta-uwi-edu.zoom.us/j/97002231762?pwd=gfabYlFiK9bGMuEXvJ8D4jP9TDnzJM.1)



Abstract

Global reanalysis data sets have become essential in renewable resource assessments as they provide complete long-term climate data without gaps and full spatial coverage. These data sets can be used either in addition to or as an alternative to measured data where there are scarcities or unreliable high-quality data once they are reflective of the site. From my previous work, I have shown that there is a lack of high-quality measured data in the Caribbean, as 86% of the stations were rejected after quality control procedures were applied and only 28 stations representing 9 islands were identified as having high quality data. This presentation compares reanalysis data sets with 10 m wind speeds for these 28 stations, to determine a reanalysis data set that best captures the wind speed variability in the Caribbean.