

Pacific Climate Data and Open-Source Limitations

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Climate data in the Pacific

Lack of
funding for
data

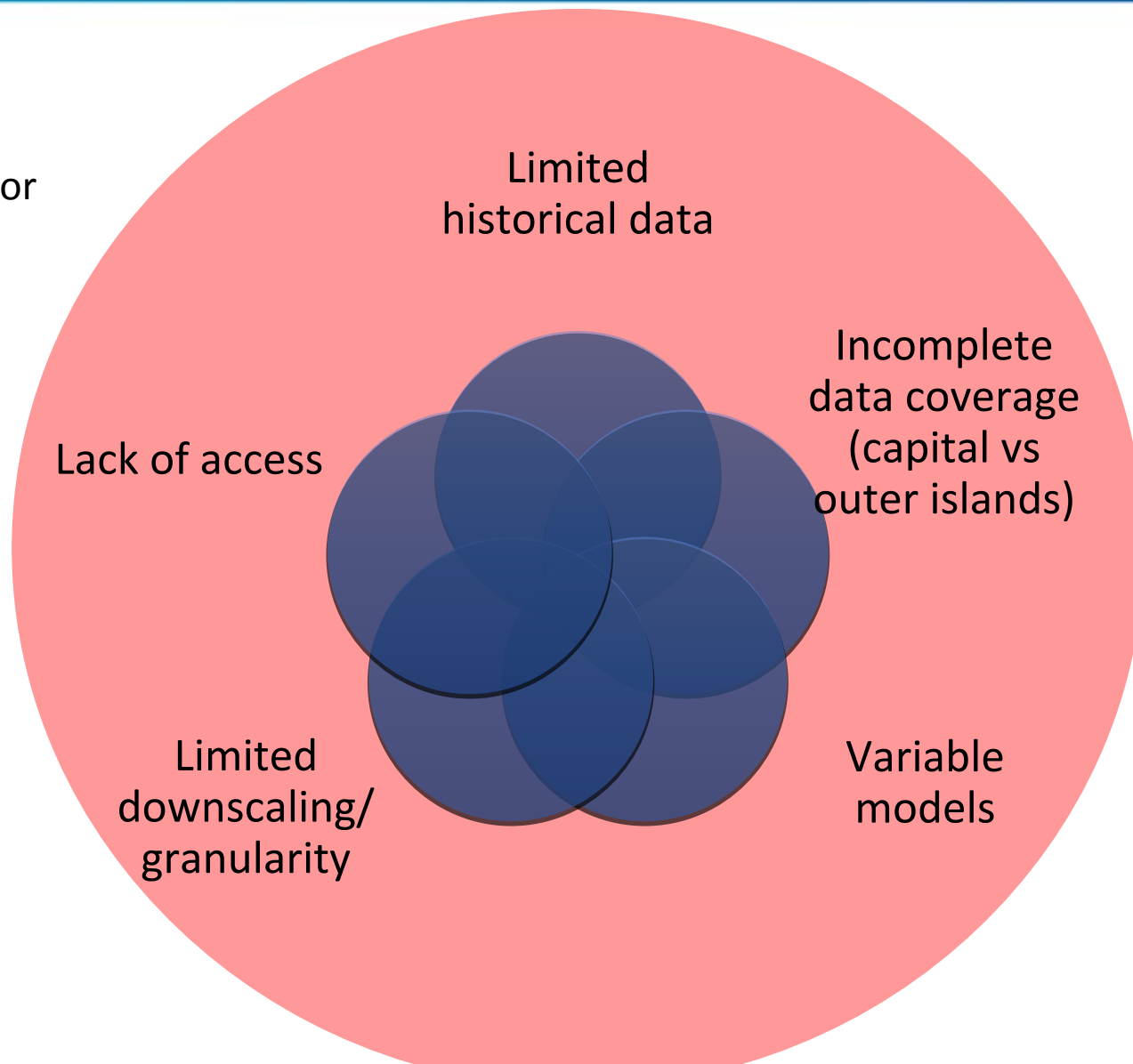
Limited
historical data

Incomplete
data coverage
(capital vs
outer islands)

Lack of access

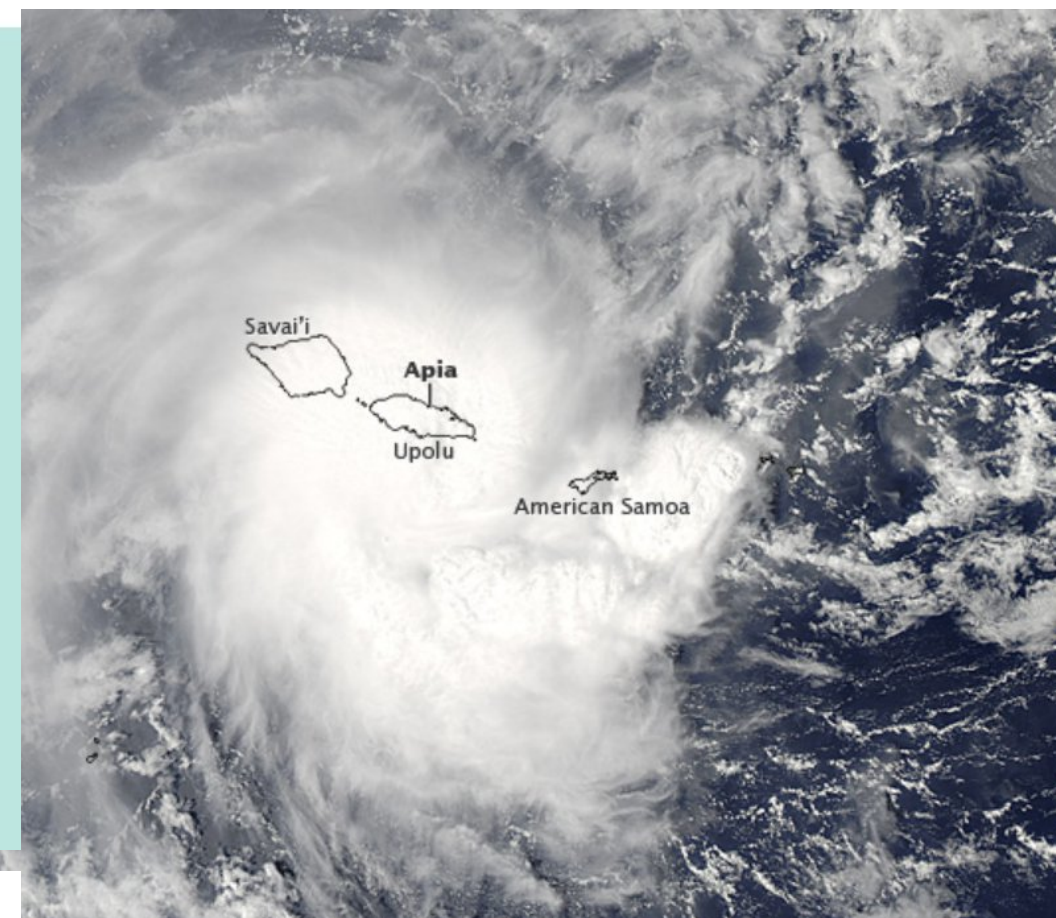
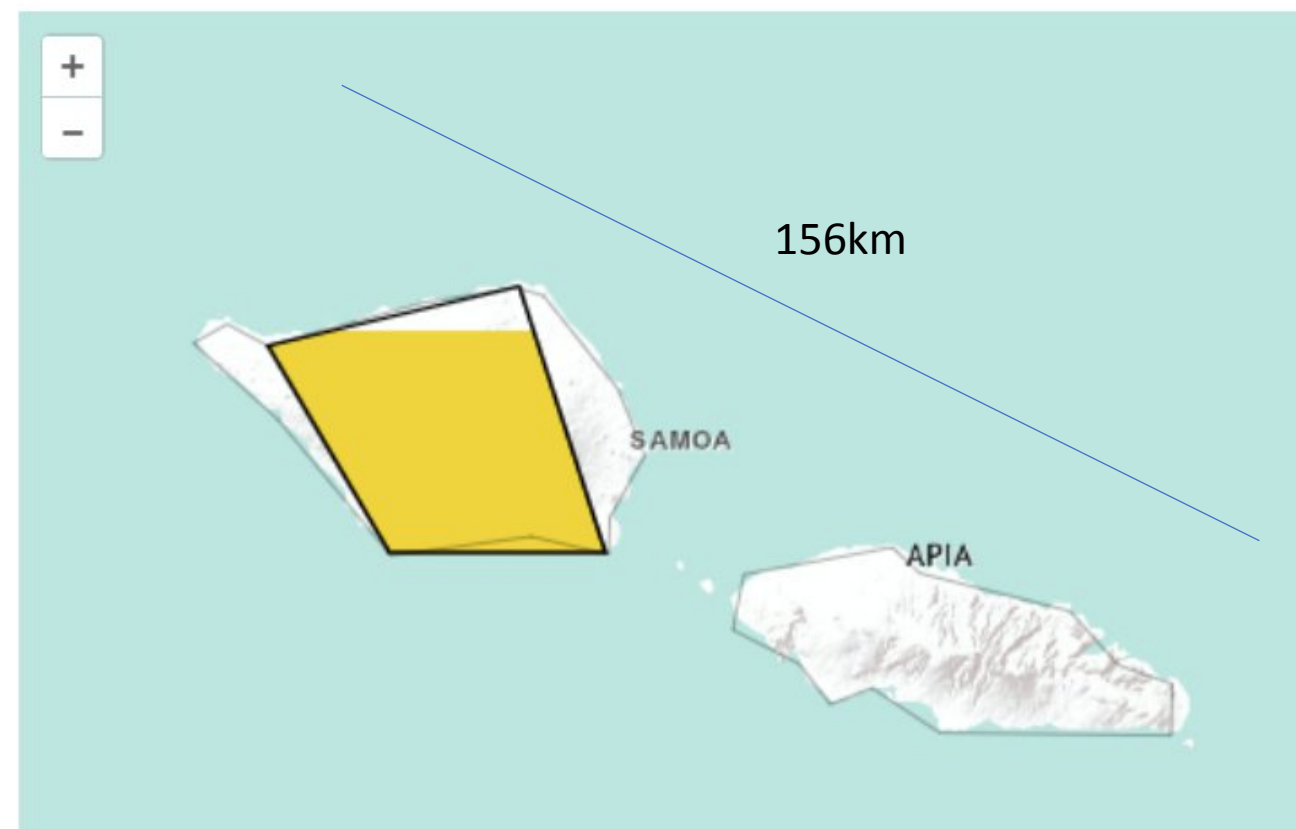
Limited
downscaling/
granularity

Variable
models



Example – Samoa Coastal Resilience

Change in Annual Exceedance Probability of Largest 5-Day Cumulative Precipitation;
25-yr Event; SSP2-4.5; Samoa; 2035-2064 (center 2050)



CHANGE FACTOR (how much more likely is an event with selected historical return period in the future)



Importance of other data

Topography, shoreline morphology, land use, socio-economic vulnerabilities, ecosystem dynamics, policy and governance factors

