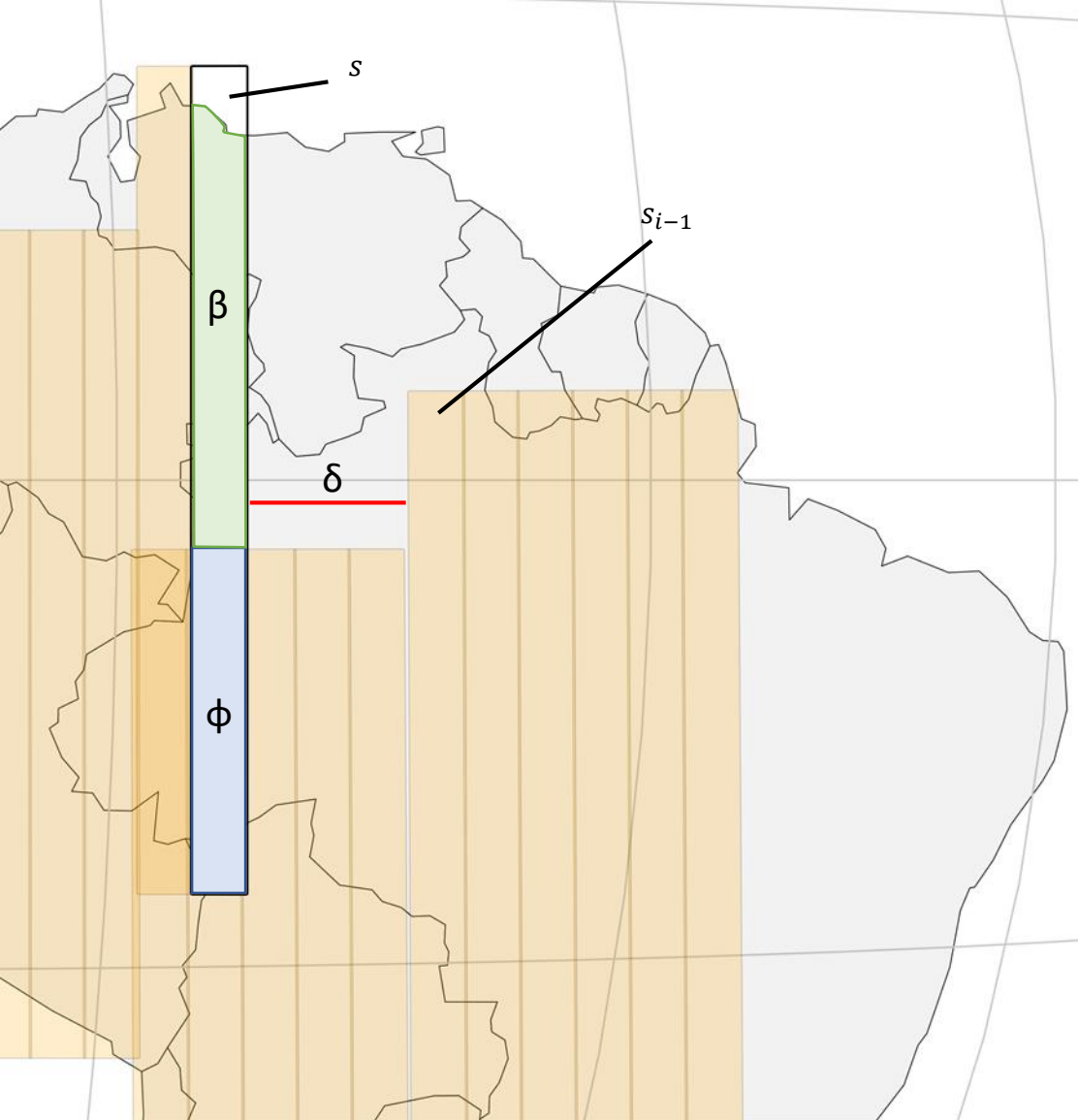
s
s_{i-1}
β
δ
ϕ