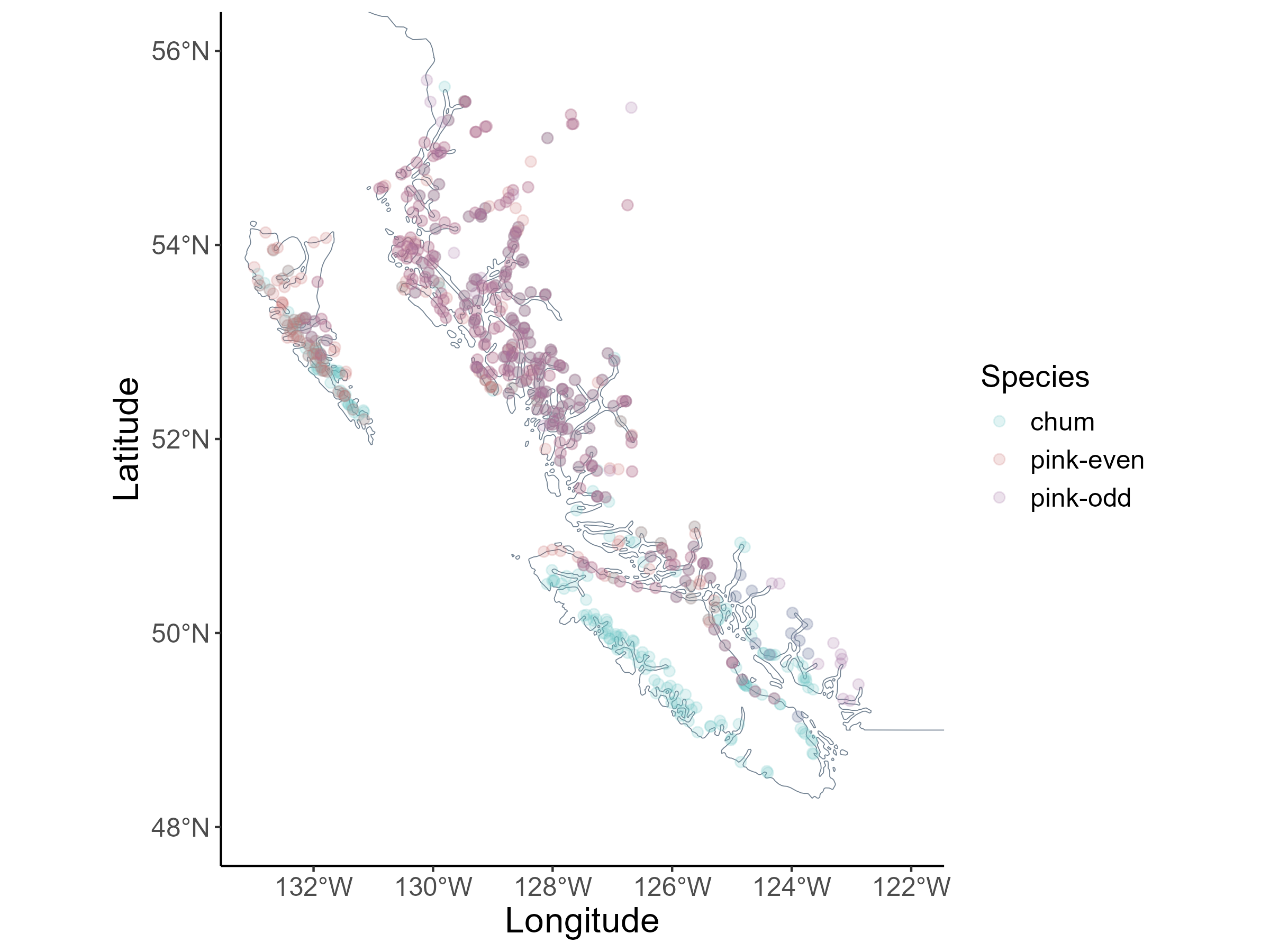
Coastwide analysis of forestry impacts on BC Pacific Salmon

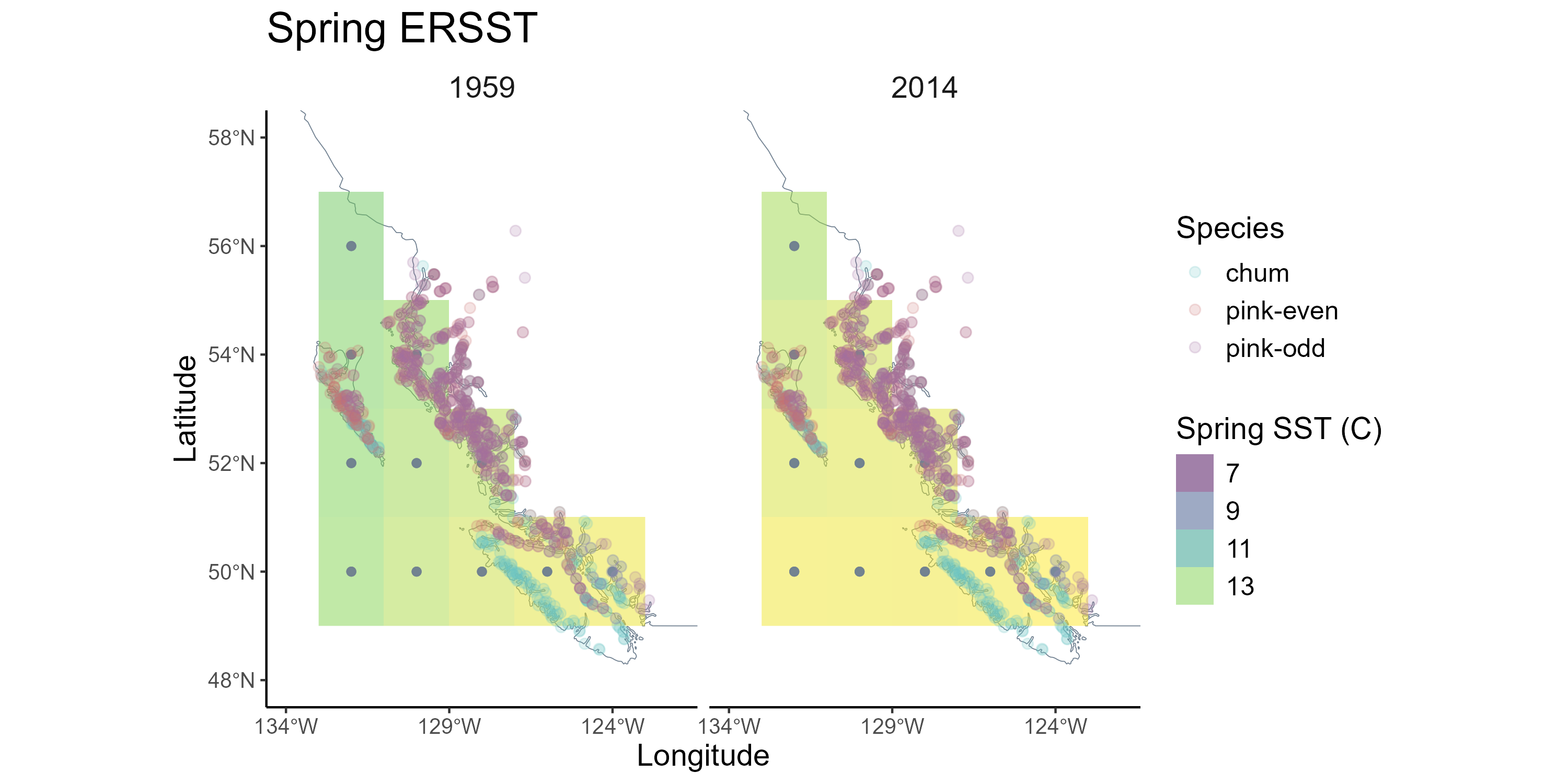
March 2025

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# Chum and Pink Salmon Watersheds



## Extended Reconstructed Sea Surface Temperature (ERSST)



# Chum salmon

# Models with forestry effects on productivity

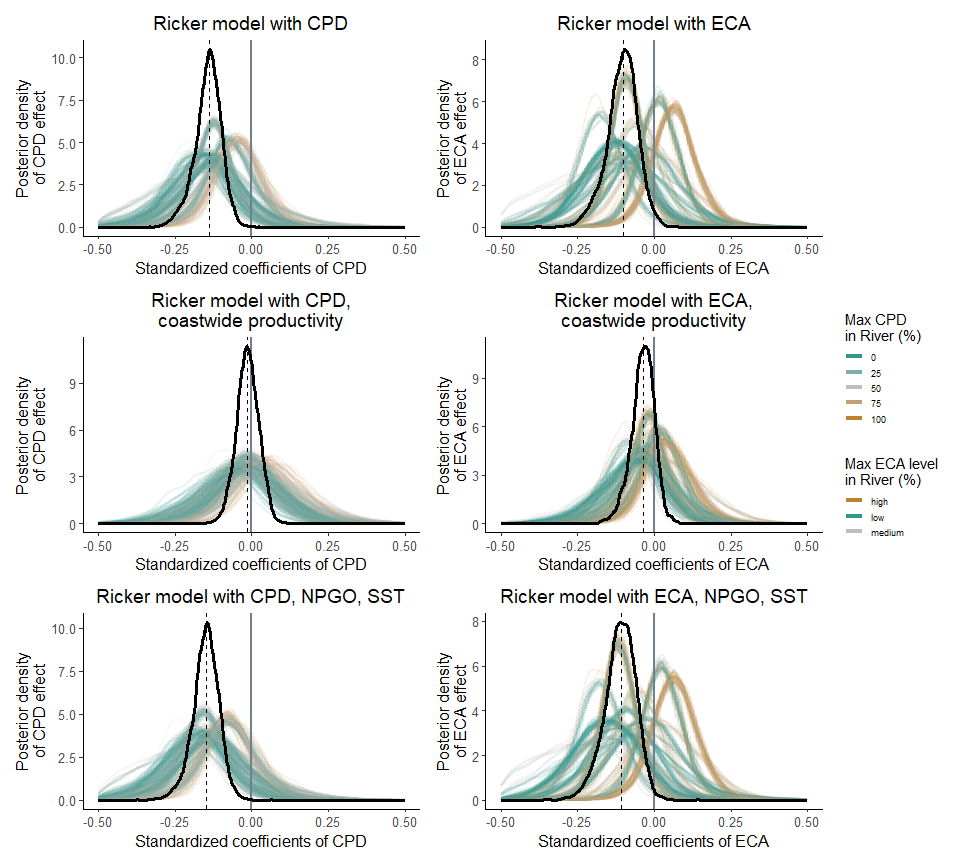
## Ricker:

Model with static productivity, forestry:

Model with time varying coastwide productivity, forestry:

Model with ocean covariates, forestry:

Model with time varying coast-wide productivity, forestry, without autocorrelation:



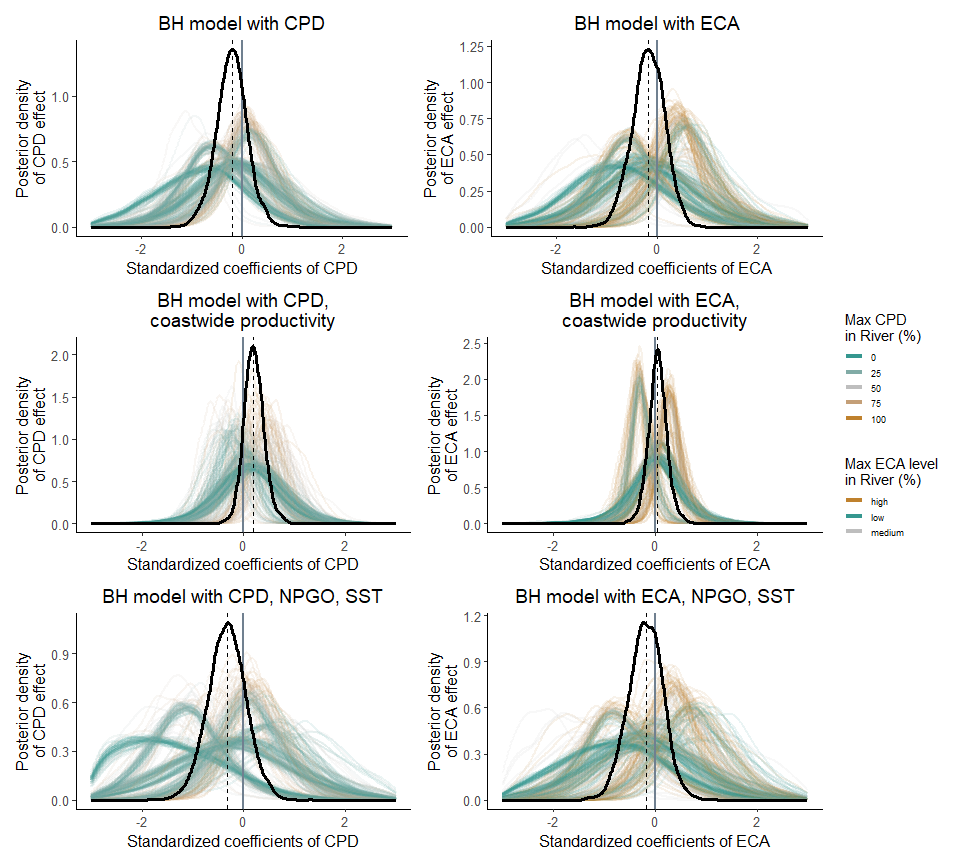
## Beverton-Holt (BH):

Model with static productivity, forestry:

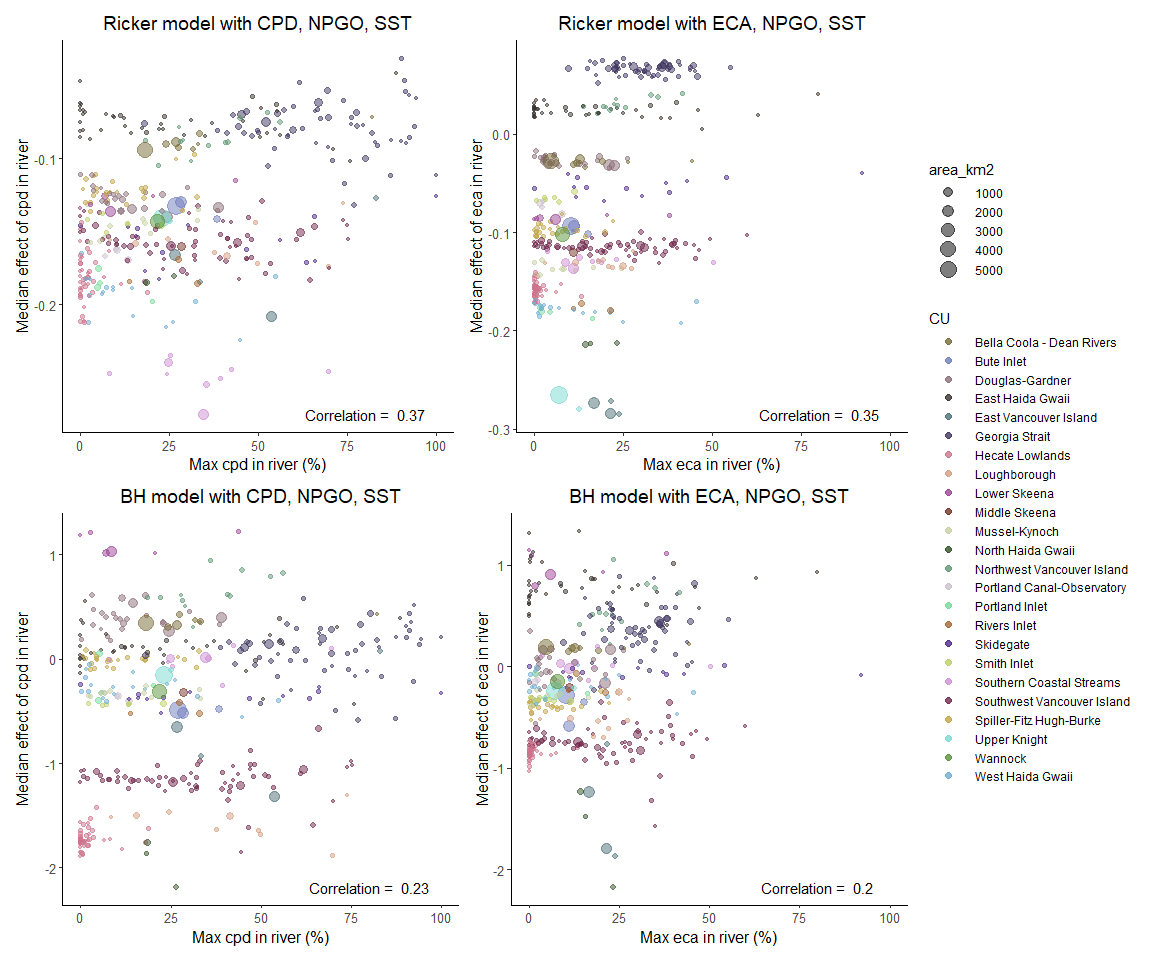
Model with time varying coast-wide productivity, forestry:

Model with ocean covariates, forestry:

Model with time varying coast-wide productivity, forestry, without autocorrelation:

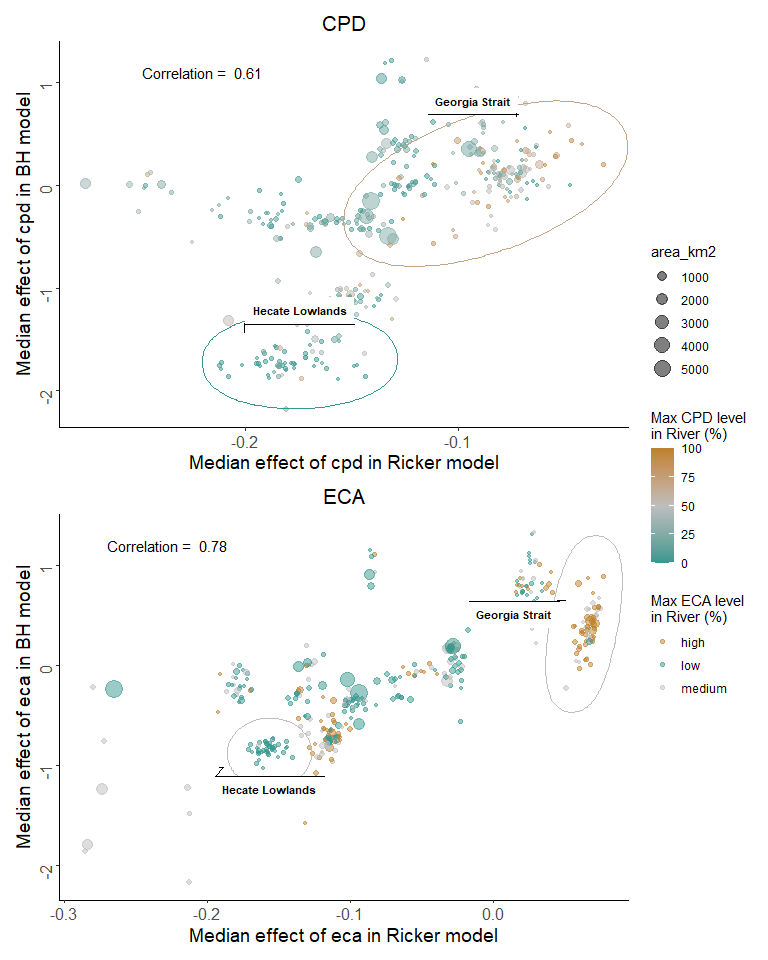


### Correlation between forestry disturbance and effects of forestry from BH and Ricker models



### Correlation of effects of forestry between BH and Ricker models

## `summarise()` has grouped output by 'CU'. You can override using the `.groups`  
## argument.  
## `summarise()` has grouped output by 'CU'. You can override using the `.groups`  
## argument.



# Models with forestry effects on carrying capacity

## Ricker:

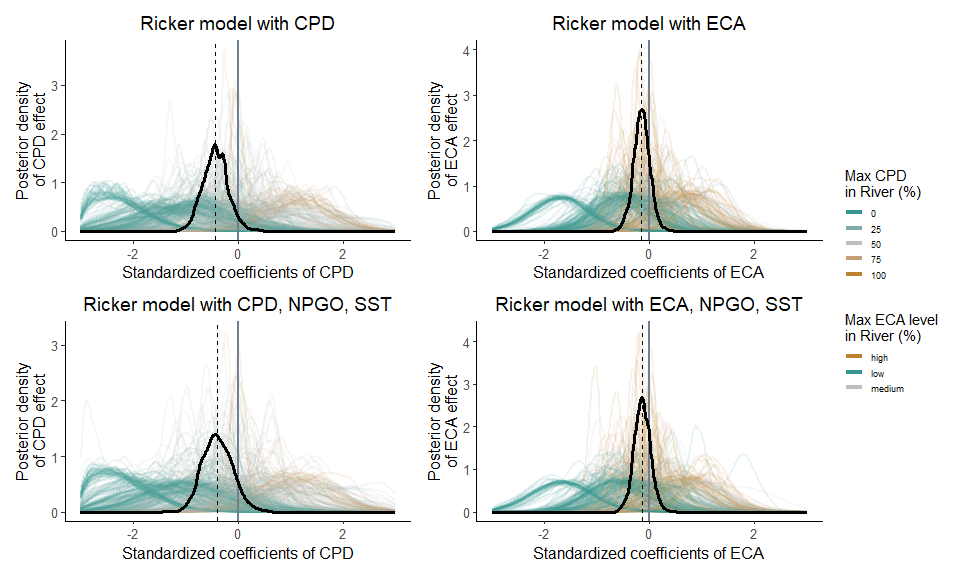
Model with static productivity, forestry:

Model with time varying coast-wide productivity, forestry:

Model with ocean covariates, forestry:

Model with time varying coast-wide productivity, forestry, without autocorrelation:

### Forestry effect on carrying capacity



## Beverton-Holt (BH):

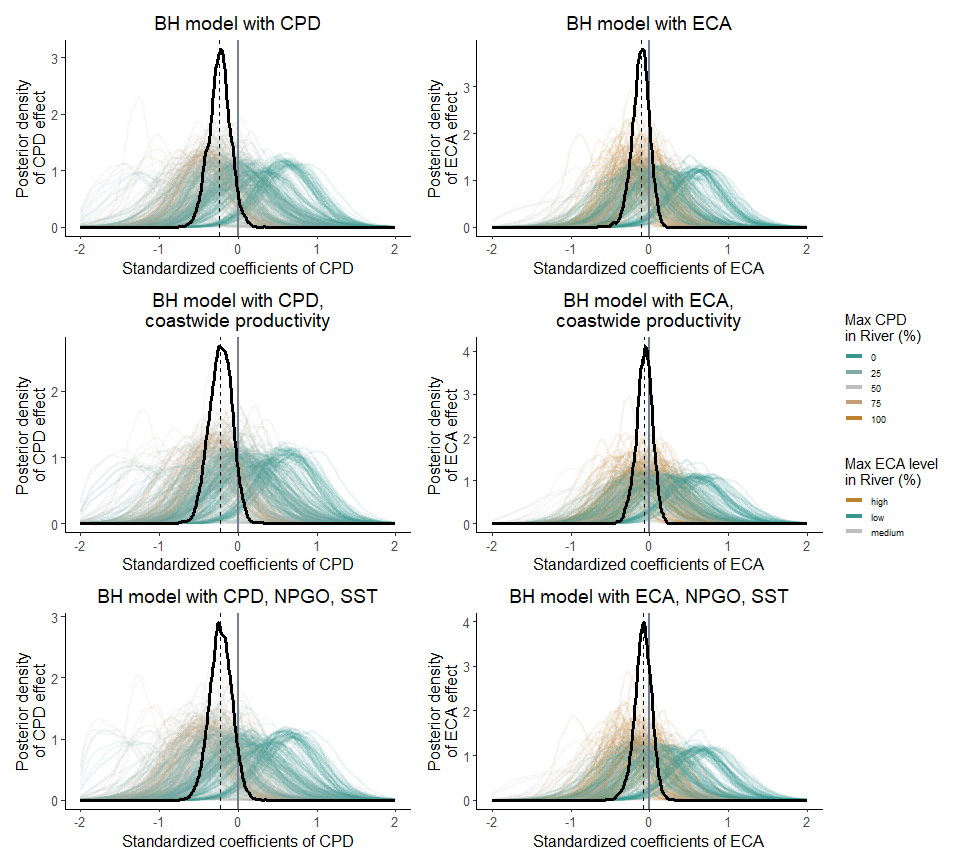
Model with static productivity, forestry:

Model with time varying coastwide productivity, forestry:

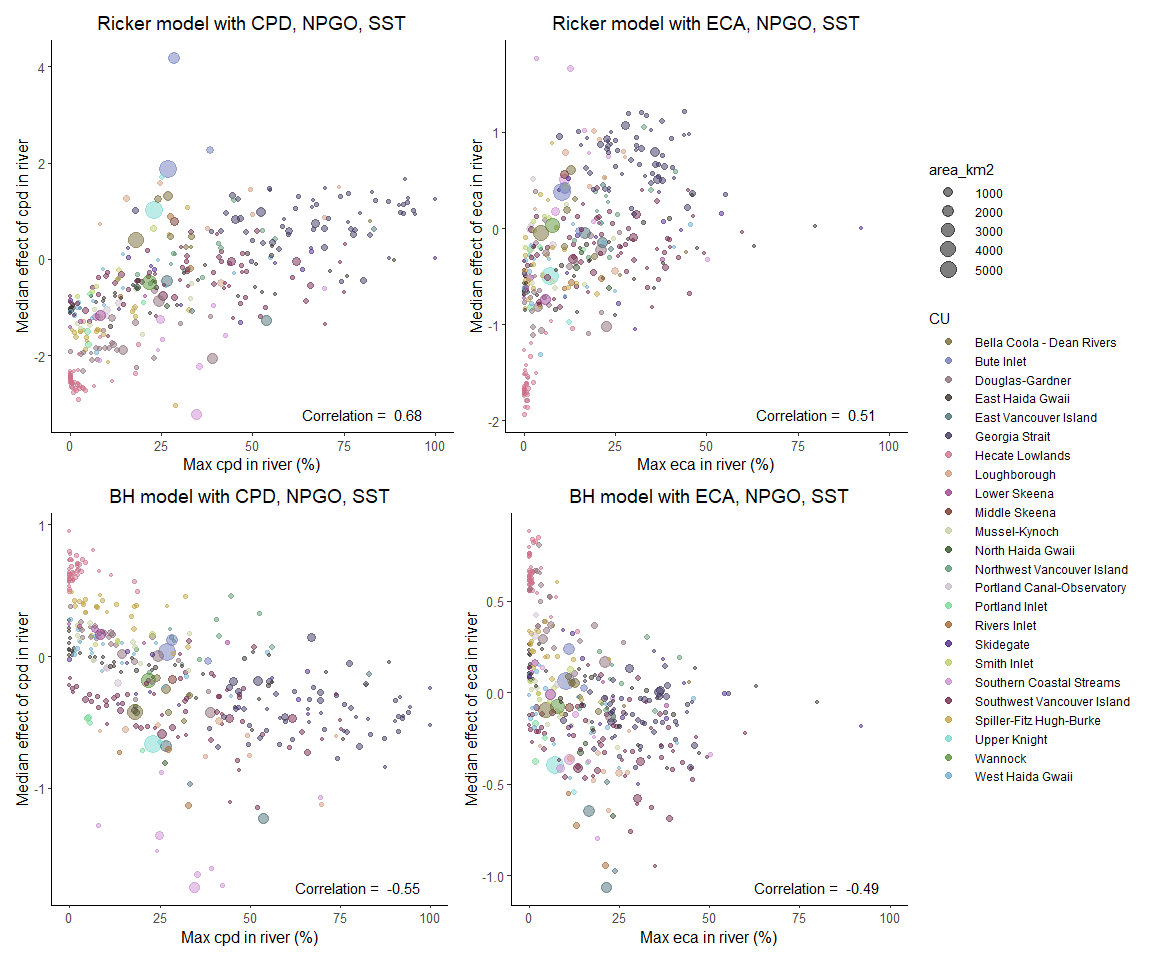
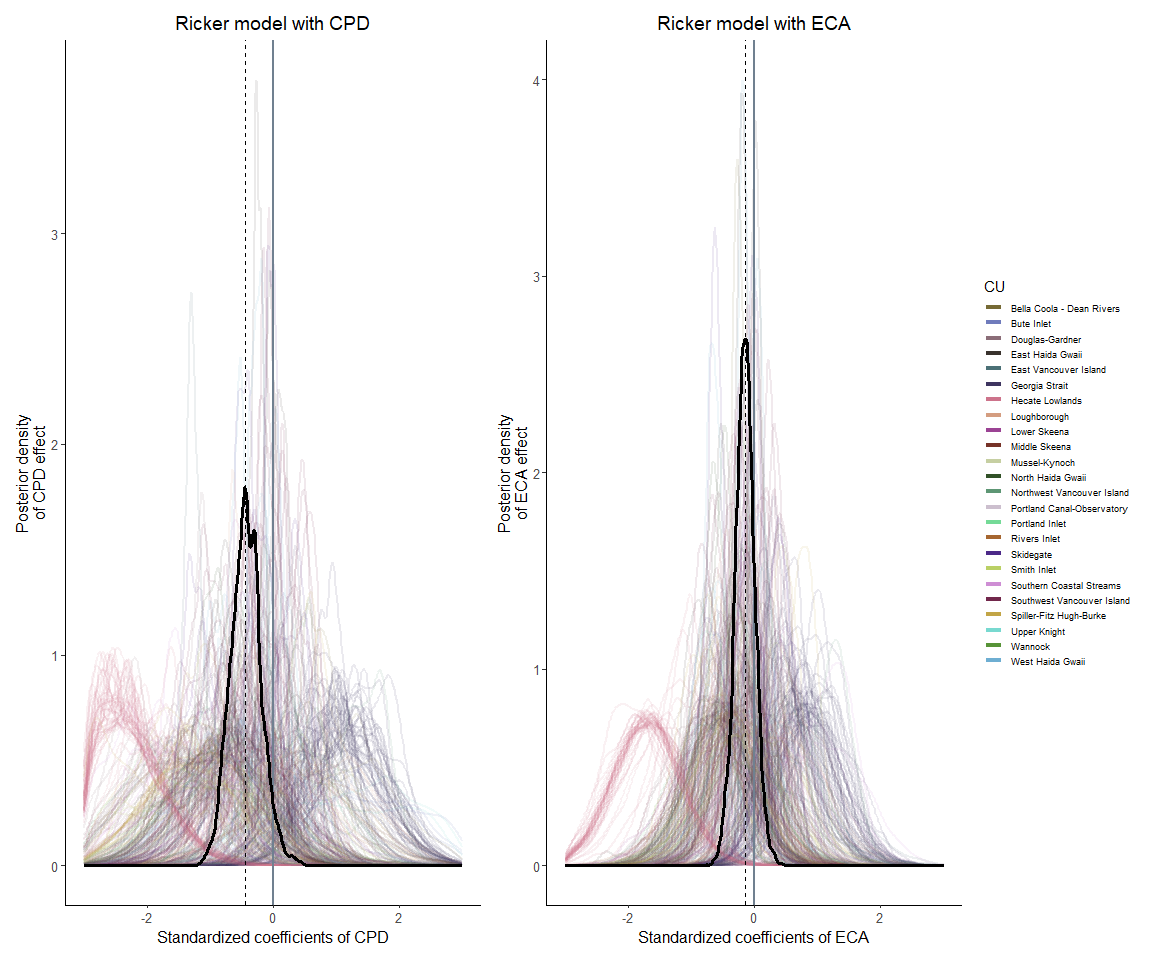
Model with ocean covariates, forestry:

Model with time varying coast-wide productivity, forestry, without autocorrelation:

### Forestry effect on carrying capacity

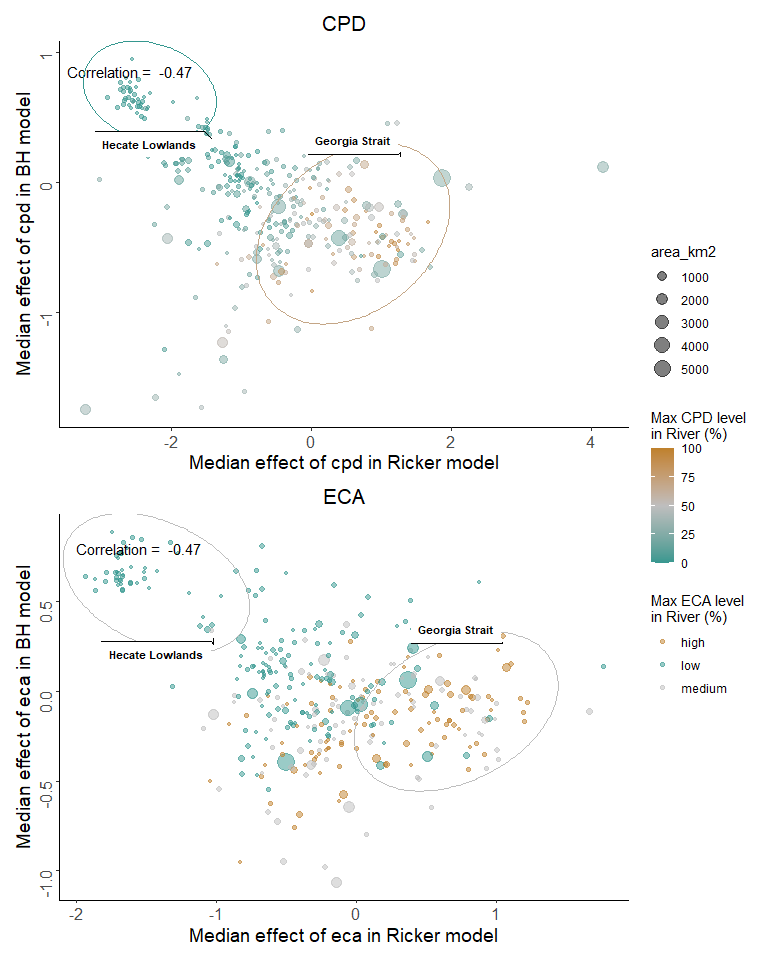


### Correlation between forestry disturbance and effects of forestry on carrying capacity from BH and Ricker models

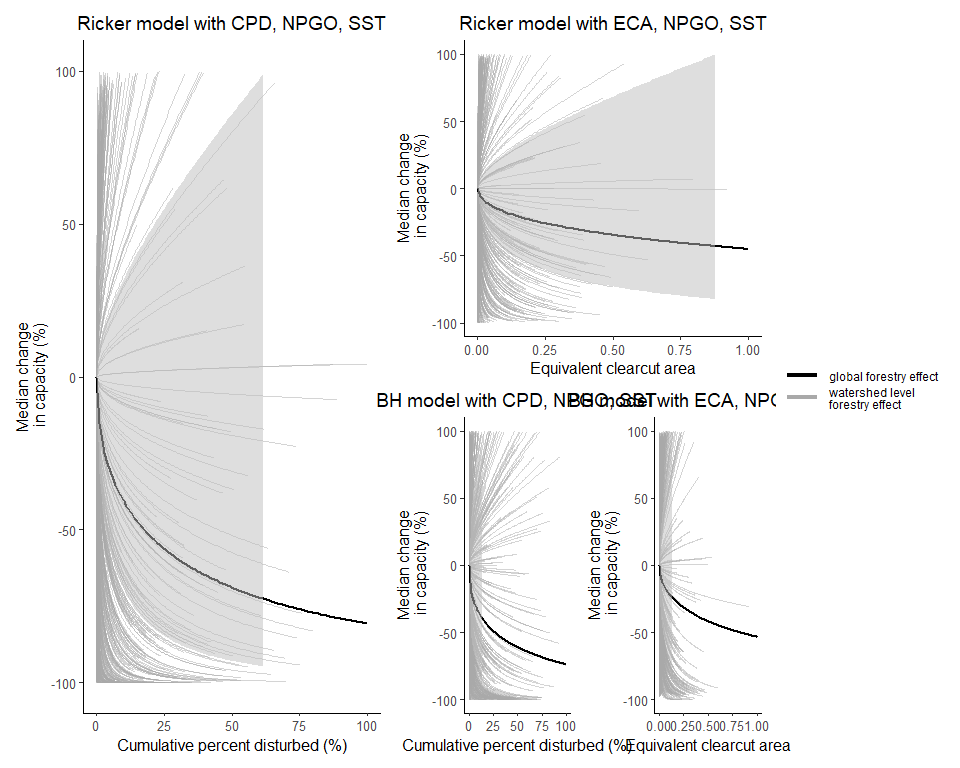


### Correlation of effects of forestry between BH and Ricker models with forestry effects on carrying capacity

## `summarise()` has grouped output by 'CU'. You can override using the `.groups`  
## argument.  
## `summarise()` has grouped output by 'CU'. You can override using the `.groups`  
## argument.



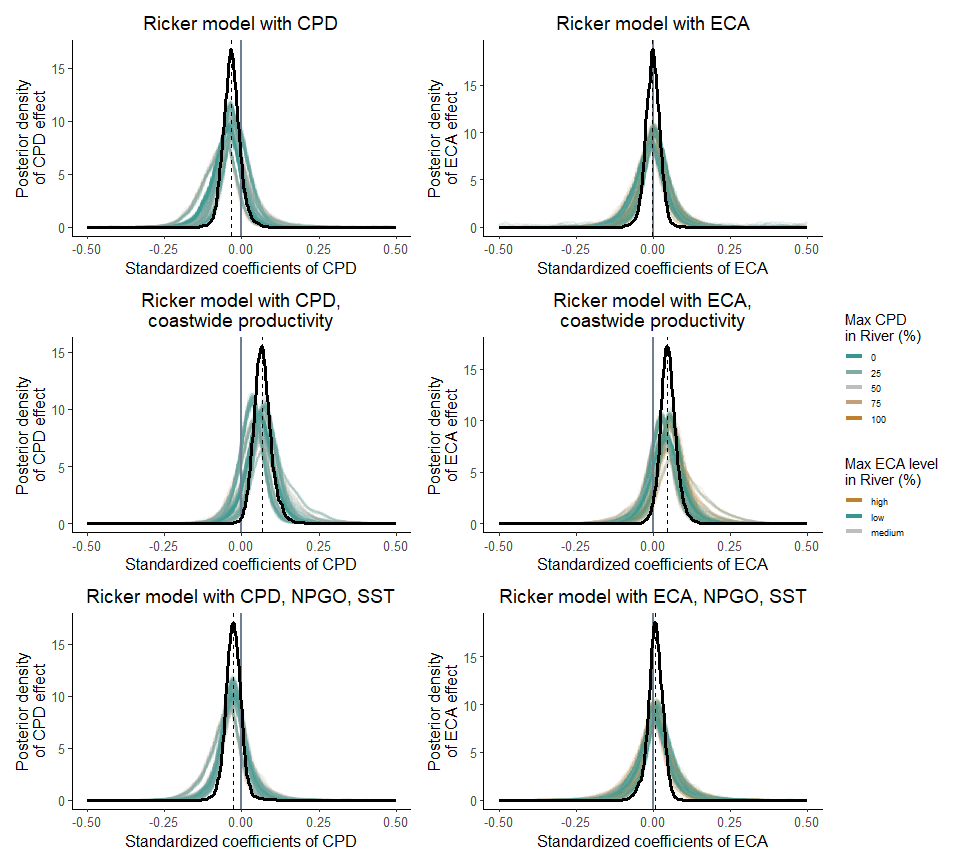
## Carrying Capacity Decline



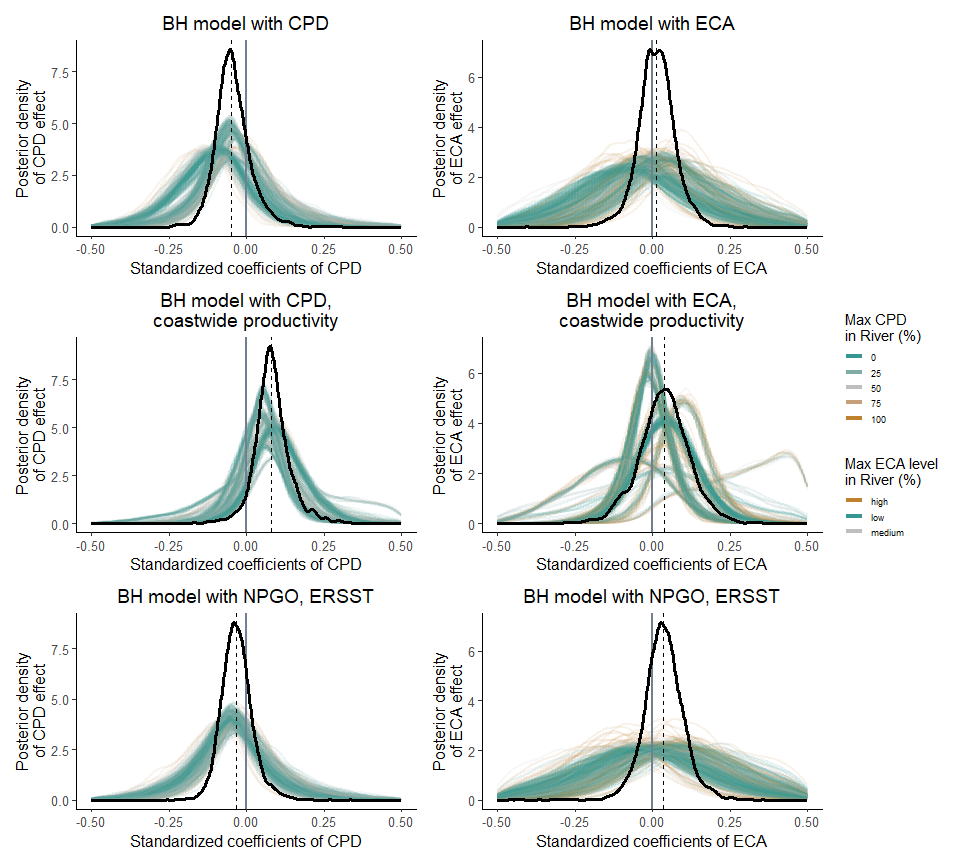
# Pink Salmon

## Models with forestry effects on productivity

## Ricker:



## Beverton-Holt (BH):



## Models with forestry effects on carrying capacity

## Ricker: