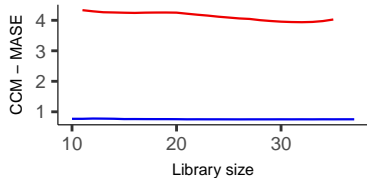
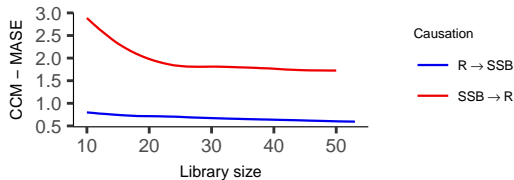


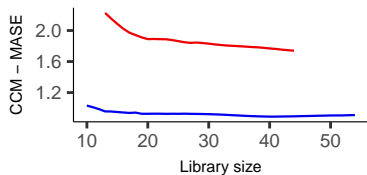
**Anoplopoma fimbria Eastern Bering Sea  
Aleutian Islands/Gulf of Alaska**



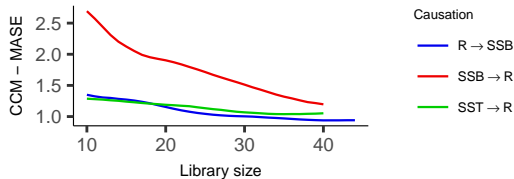
**Clupea harengus  
Celtic Sea and Division VIIj**



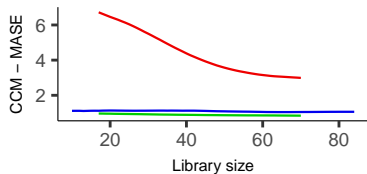
**Clupea harengus  
Division VIa (North)**



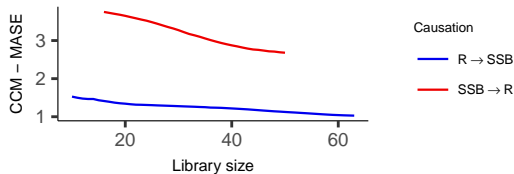
**Clupea harengus  
Irish Sea**



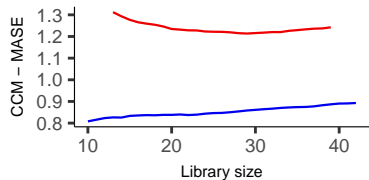
**Clupea harengus  
Norwegian Spring Spawning**



**Clupea harengus  
Sub-area IV. Divisions VIIId & IIIa (autumn-spawners)**



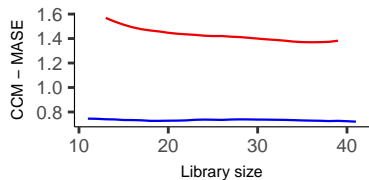
**Clupea pallasii**  
Central Coast



Causation

— R → SSB  
— SSB → R

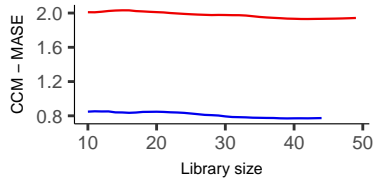
**Clupea pallasii**  
Prince Rupert District



Causation

— R → SSB  
— SSB → R

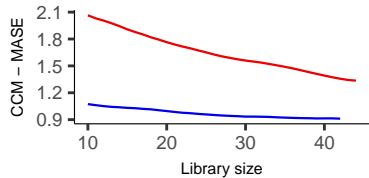
**Clupea pallasii**  
Queen Charlotte Islands



Causation

— R → SSB  
— SSB → R

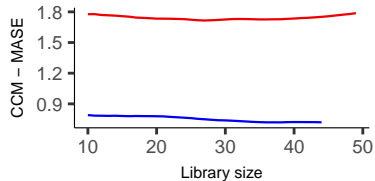
**Clupea pallasii**  
Straight of Georgia



Causation

— R → SSB  
— SSB → R

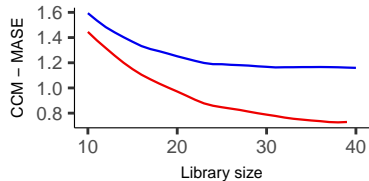
**Clupea pallasii**  
West Coast of Vancouver Island



Causation

— R → SSB  
— SSB → R

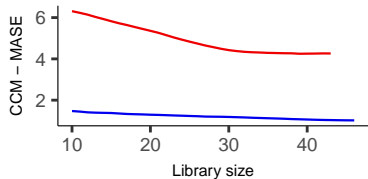
**Engraulis ringens**  
North-Central Peruvian coast



Causation

— R → SSB  
— SSB → R

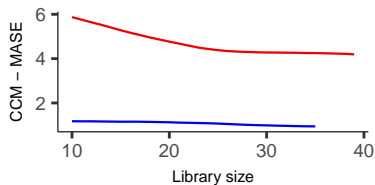
**Eopsetta jordani**  
Northern Pacific Coast



Causation

- R → SSB
- SSB → R

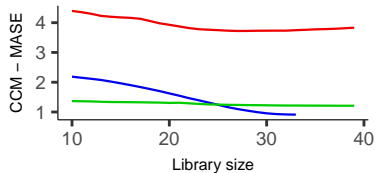
**Eopsetta jordani**  
Southern Pacific Coast



Causation

- R → SSB
- SSB → R

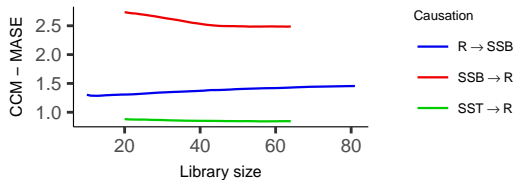
**Gadus morhua**  
Baltic (25-32)



Causation

- R → SSB
- SSB → R
- SST → R

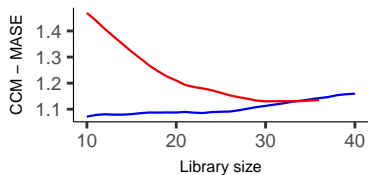
**Gadus morhua**  
Barents Sea



Causation

- R → SSB
- SSB → R
- SST → R

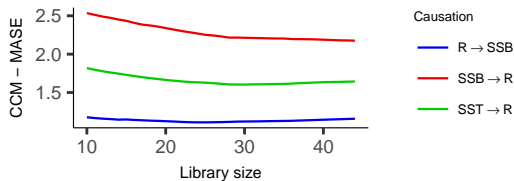
**Gadus morhua**  
Divisions Vlle-k (Celtic Sea)



Causation

- R → SSB
- SSB → R

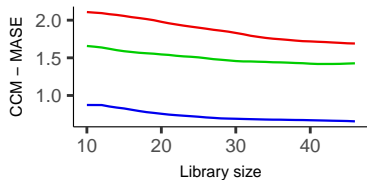
**Gadus morhua**  
Faroe



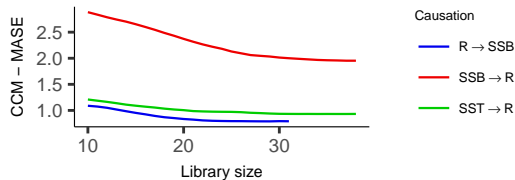
Causation

- R → SSB
- SSB → R
- SST → R

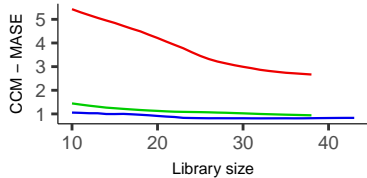
**Gadus morhua**  
Iceland



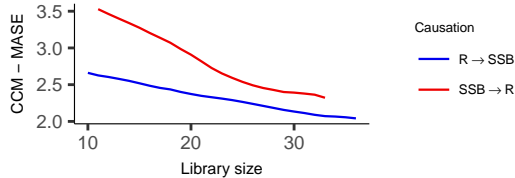
**Gadus morhua**  
Irish Sea



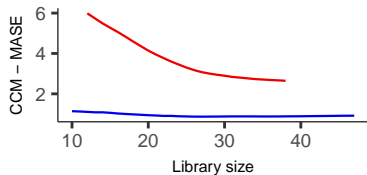
**Gadus morhua**  
North Sea



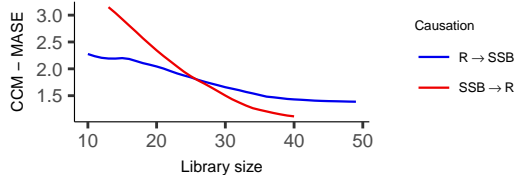
**Gadus morhua**  
Southern Grand Banks



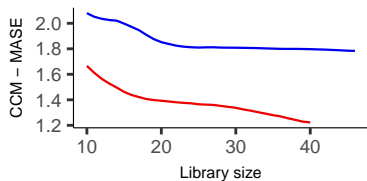
**Gadus morhua**  
Sub-area IV. Divison VIII & Division IIIa (Skagerrak)



**Kajikia audax**  
Western Pacific Ocean



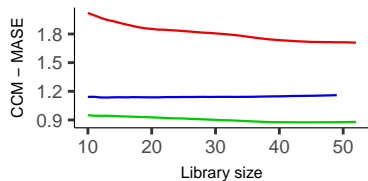
**Lepidopsetta bilineata**  
Hecate Strait



Causation

- R → SSB
- SSB → R

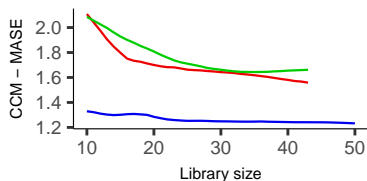
**Melanogrammus aeglefinus**  
Arctic



Causation

- R → SSB
- SSB → R
- SST → R

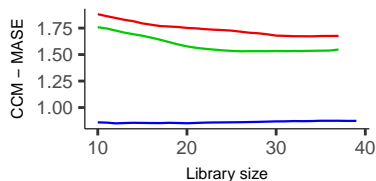
**Melanogrammus aeglefinus**  
Faroe



Causation

- R → SSB
- SSB → R
- SST → R

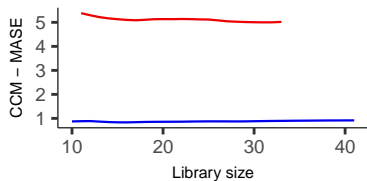
**Melanogrammus aeglefinus**  
North Sea



Causation

- R → SSB
- SSB → R
- SST → R

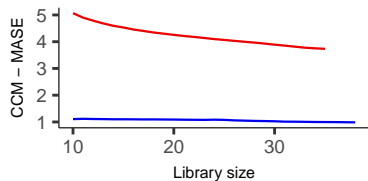
**Merluccius productus**  
Pacific Coast



Causation

- R → SSB
- SSB → R

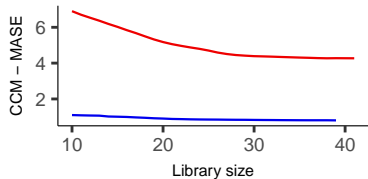
**Mycteroperca microlepis**  
Southern Atlantic coast



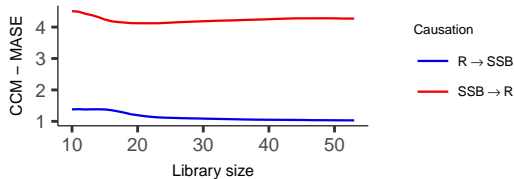
Causation

- R → SSB
- SSB → R

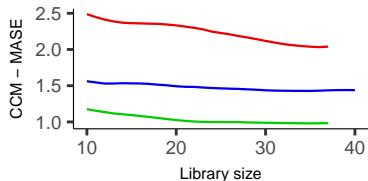
**Nemadactylus macropterus**  
Southeast Australia



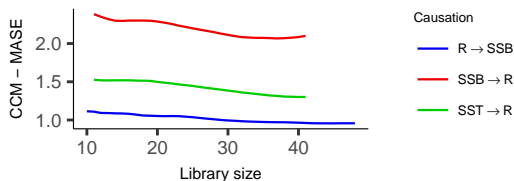
**Parophrys vetulus**  
Pacific Coast



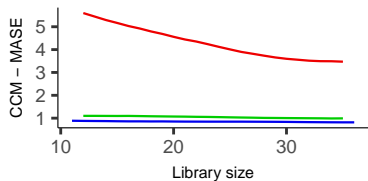
**Pleuronectes platessa**  
Irish Sea



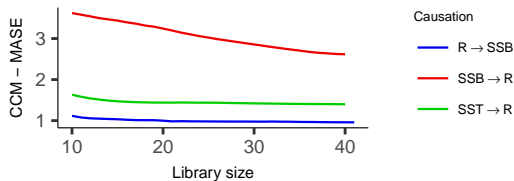
**Pleuronectes platessa**  
North Sea



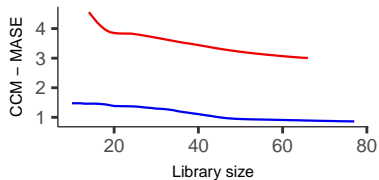
**Pollachius virens**  
Arctic



**Pollachius virens**  
Faroe



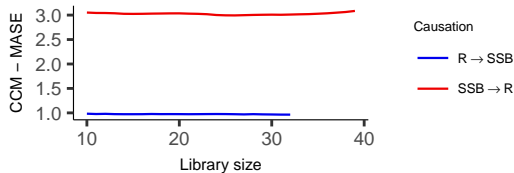
**Scomber japonicus**  
Pacific Coast



Causation

— R → SSB  
— SSB → R

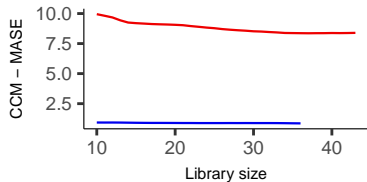
**Scomber scombrus**  
Gulf of Maine/Cape Hatteras



Causation

— R → SSB  
— SSB → R

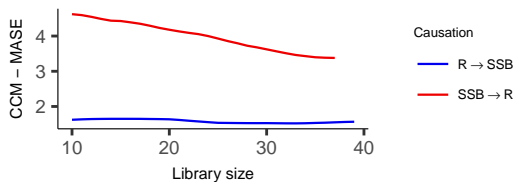
**Sebastes alutus**  
Pacific Coast



Causation

— R → SSB  
— SSB → R

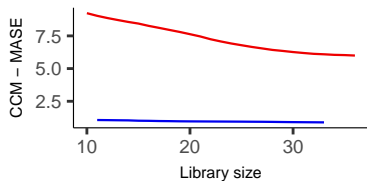
**Sebastes carnatus**  
Southern Pacific Coast



Causation

— R → SSB  
— SSB → R

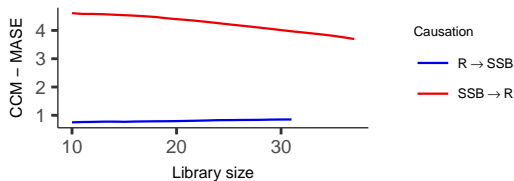
**Sebastes entomelas**  
Pacific Coast



Causation

— R → SSB  
— SSB → R

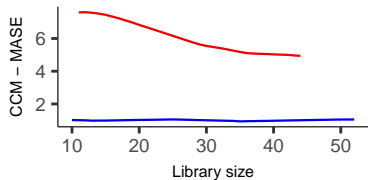
**Sebastes goodei**  
Southern Pacific Coast



Causation

— R → SSB  
— SSB → R

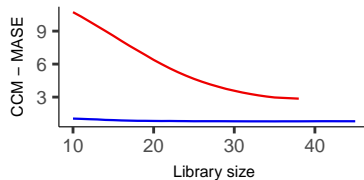
**Sebastes paucispinis**  
Southern Pacific Coast



Causation

— R → SSB  
— SSB → R

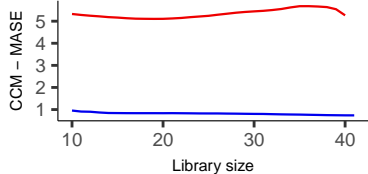
**Sebastes pinniger**  
Pacific Coast



Causation

— R → SSB  
— SSB → R

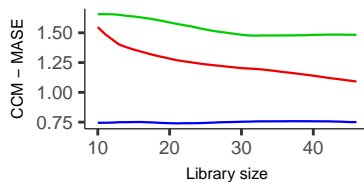
**Sebastes polyspinis**  
Gulf of Alaska



Causation

— R → SSB  
— SSB → R

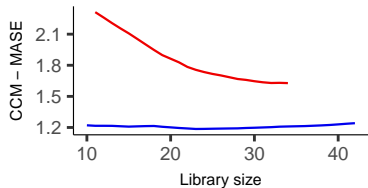
**Solea vulgaris**  
North Sea



Causation

— R → SSB  
— SSB → R  
— SST → R

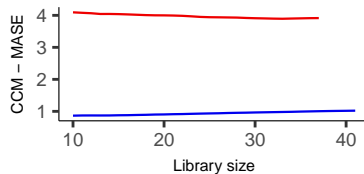
**Sprattus sprattus**



Causation

— R → SSB  
— SSB → R

**Theragra chalcogramma**  
Eastern Bering Sea

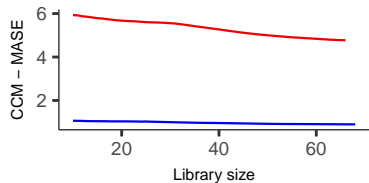


Causation

— R → SSB  
— SSB → R



**Thunnus alalunga**  
Northern Atlantic

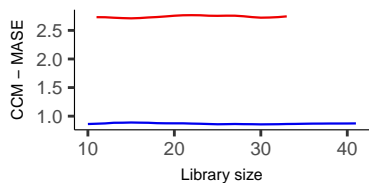


Causation

— R → SSB

— SSB → R

**Thunnus alalunga**  
South Pacific Ocean

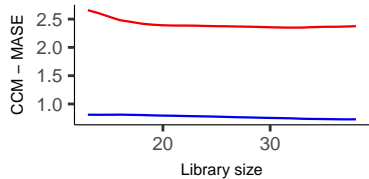


Causation

— R → SSB

— SSB → R

**Thunnus albacares**  
Central Western Pacific

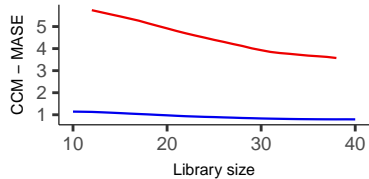


Causation

— R → SSB

— SSB → R

**Thunnus obesus**  
Western Pacific Ocean

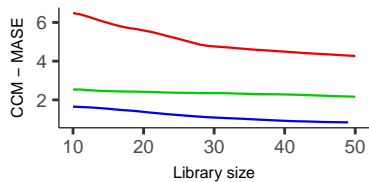


Causation

— R → SSB

— SSB → R

**Thunnus thynnus**  
East Atlantic



Causation

— R → SSB

— SSB → R

— SST → R