

Science, Service, Stewardship



SEDAR 31 Review Workshop: Reference Point History

Gulfport, MS

April 29 – May 3, 2013



**NOAA
FISHERIES
SERVICE**

NOAA



PROXIES FOR MSY

- **Maximum sustainable (long-term) yield**
theoretical quantity achieved by fishing one optimal age class infinitely hard
- **Maximum sustainable marginal yield**
Conditioned on attainable selection/effort patterns
(current pattern with prescribed changes)
- **Spawning potential ratio**
Conditioned on attainable selection/effort patterns
(current pattern with prescribed changes)



PROJECTED STATUS

Recruitment: 1984-2008 mean

Vulnerability of each fleet: 2006-2008 mean

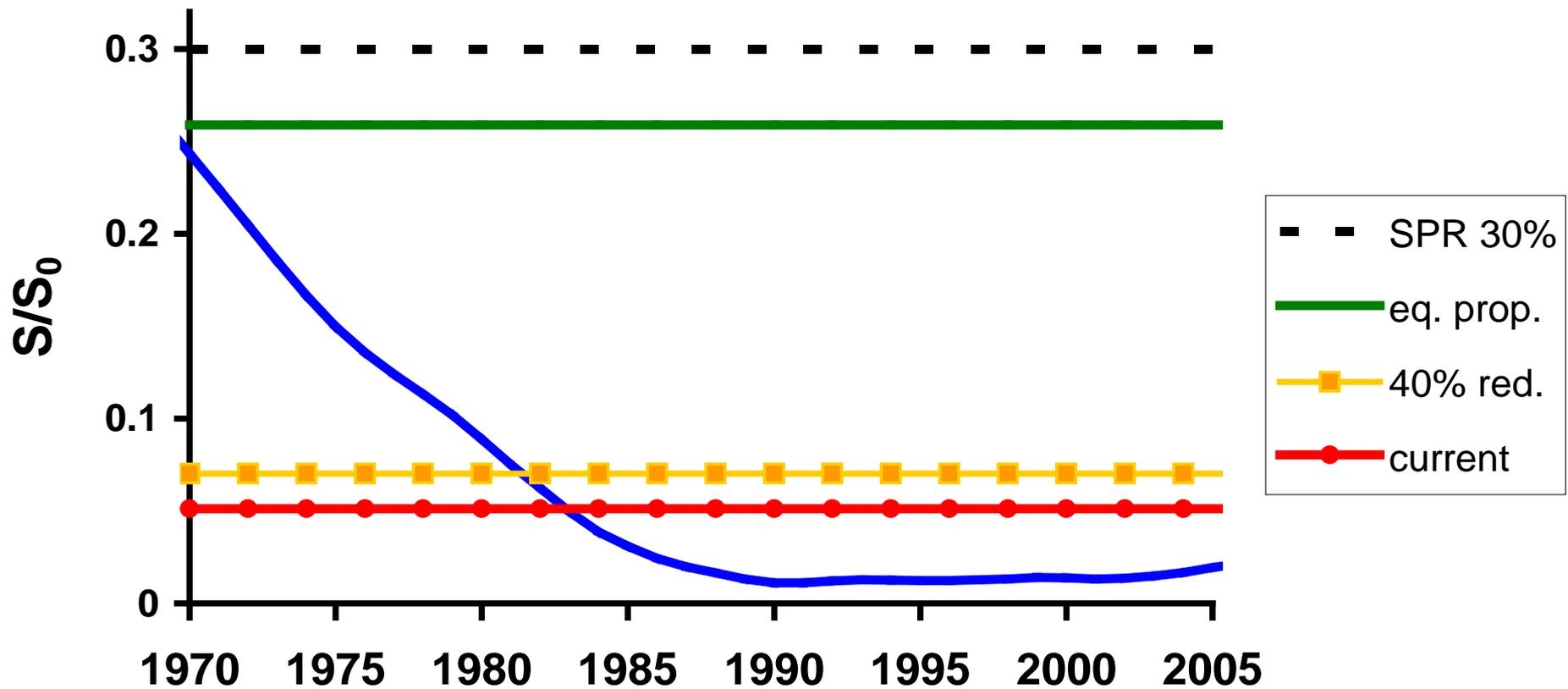
Minimum size limits: unchanged

Relative effort allocation: 2006-2008 mean



PROJECTED STATUS

Gulf-wide



Example only:
Trends in Yield and spawning potential for constant F policies designed to maximize the long term marginal yields given prescribed reductions in shrimp bycatch

