



**NOAA
FISHERIES**

**Sustainable
Fisheries**

National Standard 1 – Technical Guidance

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Charleston, SC

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NS1 Technical Guidance Workgroup

Purpose: Develop technical guidance on NS1 guideline topics to support decision-making

- Address key concepts within 2009 and 2016 revisions
- Will result in multiple work products

NS1 Technical Guidance Workgroup

- Divided into 3 subgroups
 - Subgroup 1: Reference points
 - Subgroup 2: Carry-over and Phase-in
 - Subgroup 3: Data limited stocks

Subgroup 1 – Reference points

- Pursuing multiple projects:
 - Estimation of F_{MSY} , B_{MSY} , and proxies
 - Total catch accounting
- Council staff liaisons
 - Dr. Diana Stram (NPFMC)
 - Mark Fitchett (WPFMC)
 - John DeVore (PFMC)

Subgroup 1 – F_{MSY} , B_{MSY} , and their proxies

- Tech Memo: Technical Guidance on the estimation of F_{MSY} , B_{MSY} , and their proxies
 - Guidelines and consideration for direct estimation of F_{MSY} and B_{MSY}
 - Guidance for calculating F_{MSY} and B_{MSY} proxies
 - Additional considerations
- Status:
 - In development

Subgroup 1 – Catch accounting

- White paper: Best practices for fulfilling catch and fishing mortality accounting requirements
 - Issues related to catch accounting
 - Best practices in accounting for total catch
- Status:
 - In development

Subgroup 2 – Carry-over and Phase-in

- Council staff liaisons
 - Dr. Ryan Rindone (GMFMC)
 - Josh DeMello (WPFMC)
- Tech Memo: Advice and recommendations for designing, evaluating, and implementing carryover and phase-in provisions
 - Carry-over and phase-in examples
 - Approaches to implement and evaluate carry-over and phase-in
 - Characteristics of fish stocks/fisheries/management that impact risks and benefits of carry-over and phase-in
- Status:
 - Draft under internal review
 - Plan to present to CCC in November

Subgroup 3 – Data limited stocks

- Council staff liaisons
 - Dr. John Froeschke (GMFMC)
 - Marlowe Sabater (WPFMC)
- Tech Memo: Managing data-limited stocks in federal fishery management plans
 - Review
 - Recommendations
- Status:
 - In development

Questions?

