



Outline

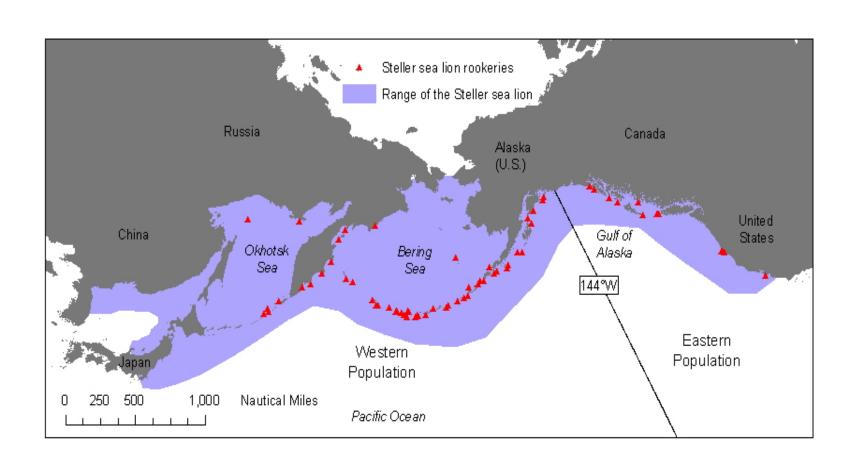


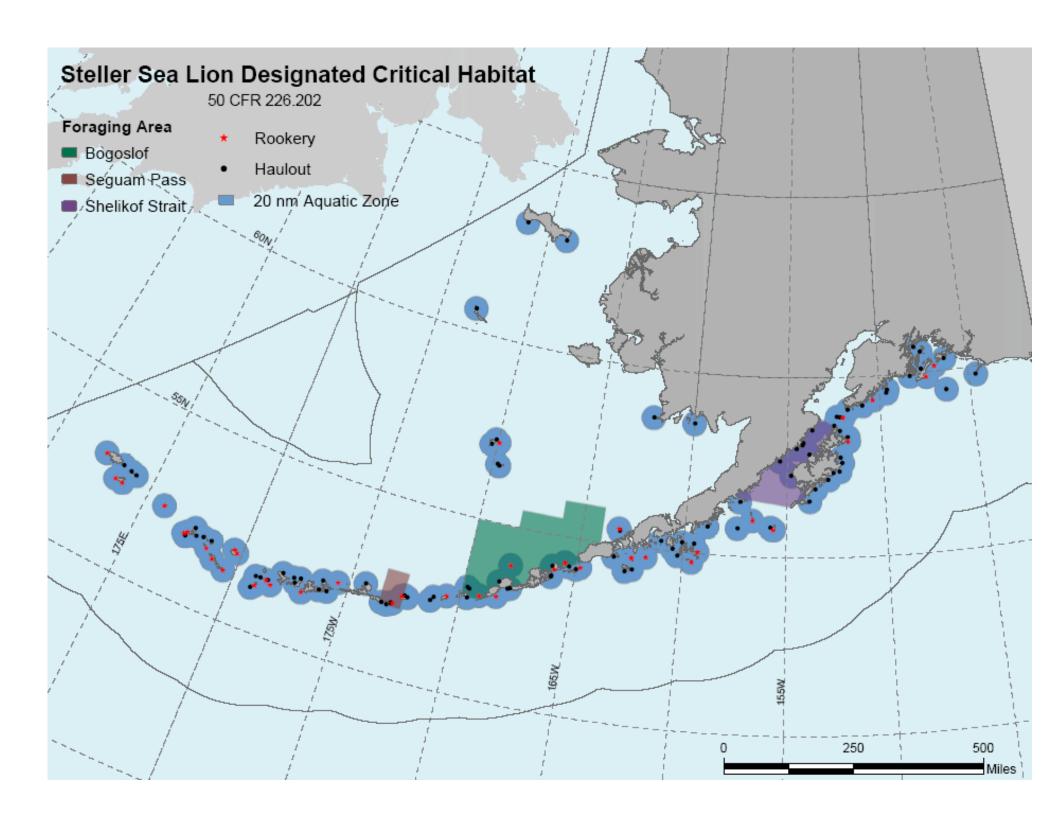
- History of ESA listing
- Recovery criteria and trends
- Status of current Section 7 consultation

ESA Listing History

- 1990 Steller sea lions listed as threatened
- 1993 Critical habitat designated
 - closures around rookeries and haulouts
- 1997 Split into Western and Eastern Distinct Population Segments (DPS) based on genetic differences
 - W DPS endangered, E DPS threatened

Range of Steller Sea Lions





Steller Sea Lion Protection Measures

- Starting in 1990, closures around haulouts and rookeries
- Prohibition on forage fish fishing since 1997
- Comprehensive suite of closures, and seasonal and area apportionments of groundfish TACs in 2001
- VMS required in directed pollock, Pacific cod, and Atka mackerel fisheries

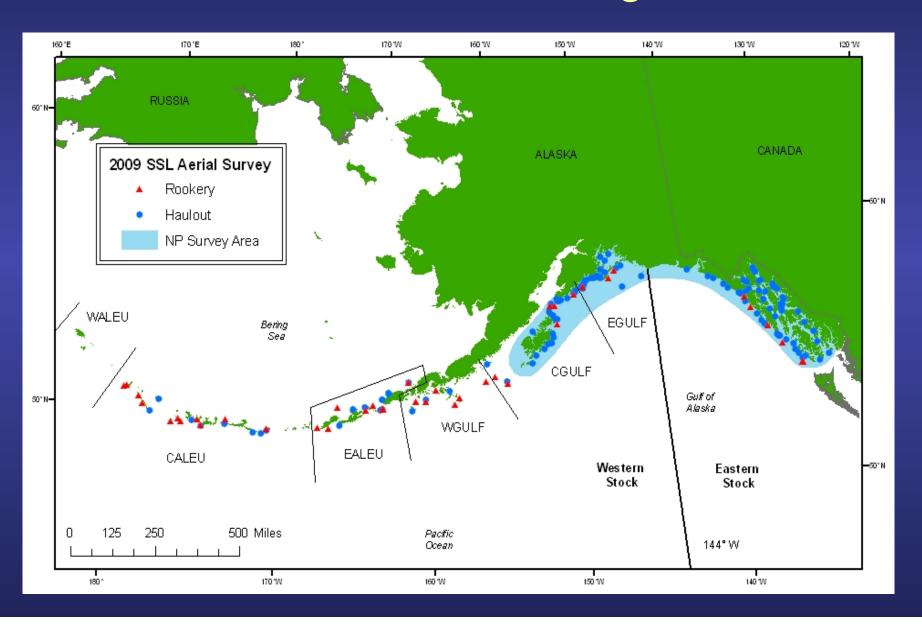


Final Recovery Plan (2008) for Western DPS of Steller Sea Lions

- Reclassified as threatened if non-pup counts increase by 1.5% per year for 15 years; delisted if counts increase by 3% per year for 30 years
- Trends in at least 5 of 7 subregions must be consistent with overall trend; no two adjacent areas are declining:
 - 1. Eastern GOA
 - 2. Central GOA
 - 3. Western GOA
 - 4. Eastern Aleutians

- 5. Central Aleutians
- 6. Western Aleutians
- 7. Russia/Asia

Western SSL Subregions



Reinitiation of Consultation

- October 2005: Council requested NMFS reinitiate Formal ESA Section 7 consultation on the groundfish fisheries as authorized under BSAI and GOA FMPs. Due to substantial new information since 2000 Biop and 2003 Supplement.
- March 2006: NMFS coordinated with State of Alaska re: Council reinitiation request; State parallel groundfish fisheries included in reinitiation per State's request.
- June 2006:NMFS reinitiated Formal Consultation.

Reinitiation of Consultation

- April 2008: NMFS notified the Council that more time was required to complete draft Biop.
- April 2009: Council requested that NMFS extend consultation period to incorporate 2009 SSL survey data into draft Biop.
- March 2010: NMFS notified Council that more time was required for internal review of the draft Biop.



August 2010 Draft Biological Opinion

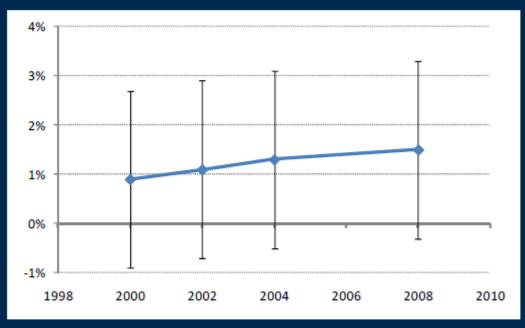
Effects of the Groundfish Fisheries Off Alaska on ESA Listed Species Including the Western DPS of Steller Sea Lions

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15 Aug 2010- SSC

Western DPS SSL Non-Pup Growth Rates in the 2000s

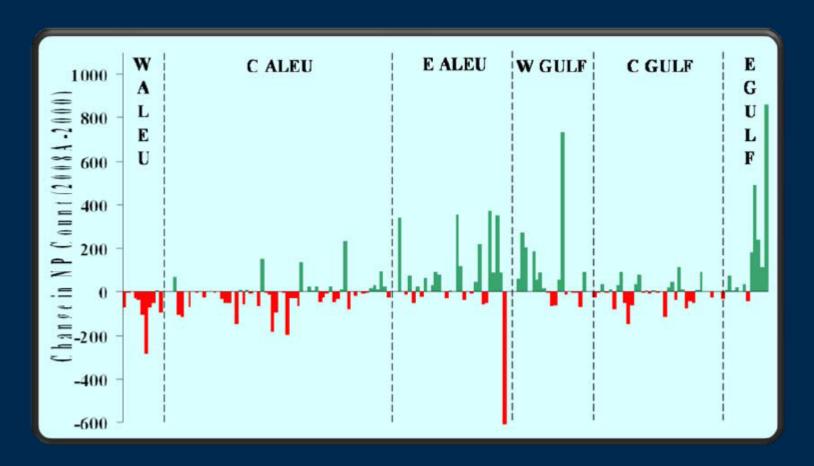
Annual estimated growth rates 2000-08



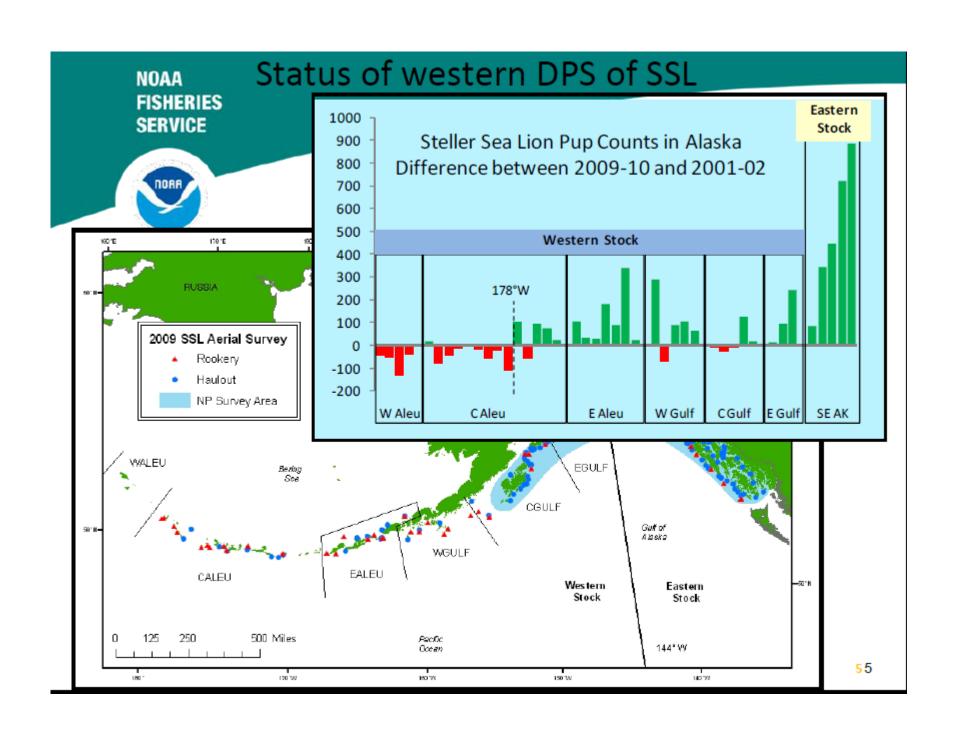
Johnson 2010

2008: ~ 1.5% yr⁻¹ but uncertain

Status of western DPS of SSL



Western SSL Non-Pup Counts in Alaska Compare 2008 to 2000



Western DPS SSL Non-Pup Counts: 2000-2008

From rookeries/haulouts consistently surveyed since 1991

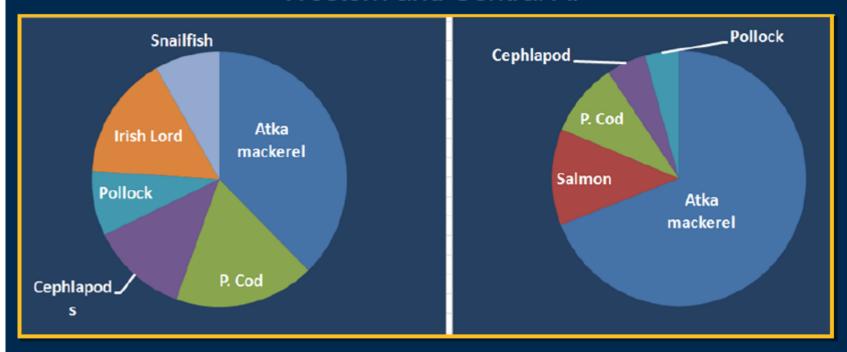
| Year | wAI | cAI | eAI | wGOA | cGOA | eGOA | Total |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|
| 2000 | 1633 | 6560 | 4990 | 3996 | 4555 | 2102 | 23836 |
| 2002 | 1196 | 6547 | 5261 | 4617 | 4594 | 2615 | 24829 |
| 2004 | 1286 | 6885 | 5991 | 5233 | 4028 | 3015 | 26438 |
| 2006 | 1 | 1 | 6031 | | | 3101 | 1 |
| 2008 (adj) | 894 | 5817 | 6405 | 5558 | 4602 | 3313 | 26589 |
| Annual Rate of Change | 0.935 | 0.985 | 1.033 | 1.041 | 0.999 | 1.056 | 1.014 |
| Overall Change 2000-2008 | -45% | -11% | 28% | 39% | 1% | 58% | 12% |

Notes: 1) Russia/Asia subpopulation ROC = 1.043

- 2) Overall wSSL ROC is approximately 1.021
- 3) If declines in wAl and cAl ended, wSSL ROC in US = 1.025

Frequency of Occurrence of Prey Items in SSL scats collected 1999-2005

Western and Central Al



Winter Summer

Evidence for Nutritional Stress: wDPS

- Evidence and data gaps for assessing potential biological manifestations of nutritional stress in wDPS of SSL presented in Table 3.17
- Of n=32 indicators, data are available to assess 17; data not yet analyzed for 3.
- Of the indicators assessed for nutritional stress, 13 were negative and 1 was positive.

| Neg | Positive | |
|-------------------------|---------------------------|--------------------|
| Emaciated Pups (<4 wks) | Reduced pup counts | Reduced Birth Rate |
| Reduced pup size | Reduced non-pup counts | |
| Reduced pup weight | Change in blood chemistry | |
| Reduced growth rate | Increased disease | |
| Reduced survival | | |

Conclusions – Chapter 7

- Some conservation measures implemented since 2000 FMP Biop effective in ameliorating stressors, esp. in some sub-regions.
- However, measures not adequate to prevent Jeopardy or Adverse modification
- Basis:
 - Continued decline in abundance SSLs in western and central AI; low pup:nonpup ratio in wAI
 - Spatial and temporal distribution of fisheries, overall harvest amounts of important prey, and low overall forage availability in western and central Al

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Criteria and Standards Used to Establish and Evaluate RPAs

- Promote recovery of SSL numbers in sub-regions where numbers likely to drop below 50% of baseline
- Promote recovery of SSL numbers in sub-regions where two juxtaposed areas are in decline
- Promote overall increase in numbers in wSSL DPS
- More severe conservation measures implemented where declines are most severe
- Establish opportunity for adaptive management approach
- From a regulatory perspective, feasible implementation of RPA by 1 January 2011

Summary of Draft RPA

- Closes W. Aleutians to fishing for Pacific cod and Atka mackerel
- In Central Aleutians, reduces Atka mackerel fishery to 47% of ABC and restricts Pacific cod fishery in critical habitat
- Limits areas open to P. cod fishing in E. Aleutians.

Council Actions

 Recommended revised RPA to NMFS in August 2010 with less stringent measures

 Recommended refocusing research priorities on Aleutian Islands

Recommended scientific review

Upcoming

 Council meets December 8-14, 2010 in Anchorage

- NMFS will present the Final BiOp
- New management measures scheduled for implementation in January 2011