



**NOAA**  
**FISHERIES**

Alaska Fisheries  
Science Center

# Overview

## Stock Assessment Process

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AFSC Stock Assessment Review  
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# FMPs and Number of Stock Assessments

- Bering Sea and Aleutian Islands Groundfish FMP
    - 25 Assessments
      - 125 species – 8 complexes of more than one species
  - Gulf of Alaska Groundfish FMP
    - 25 Assessments
      - 111 species – 10 complexes of more than one species
  - Bering Sea and Aleutian Islands Crab FMP
    - 10 Assessments (AFSC has lead on 4 assessments)
    - Management is deferred to State of AK with Fed oversight
- 12 minor stocks managed using catch-only data

# Stock Assessment and Fishery Evaluation Report

## for the Groundfish Resources of the Bering Sea/Aleutian Islands Region

SAFE

Report

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3. Sablefish.....	329
4. Yellowfin sole.....	447
5. Greenland turbot.....	513
6. Arrowtooth flounder.....	563
7. Northern rock sole.....	627
8. Flathead sole.....	687
9. Alaska Plaice.....	755
10. Other flatfish.....	799
11. Pacific ocean perch.....	811
12. Northern Rockfish.....	815
13. Shortraker/Rougheye rockfish.....	817
14. Other rockfish.....	821
15. Atka mackerel.....	825
16. Skates.....	909
17. Squids.....	931
18. Sharks.....	1033
19. Octopus.....	1081
20. Sculpins.....	1117
Ecosystem Considerations.....	Bound Separately
Economic Status of Groundfish Fisheries off Alaska.....	Bound Separately

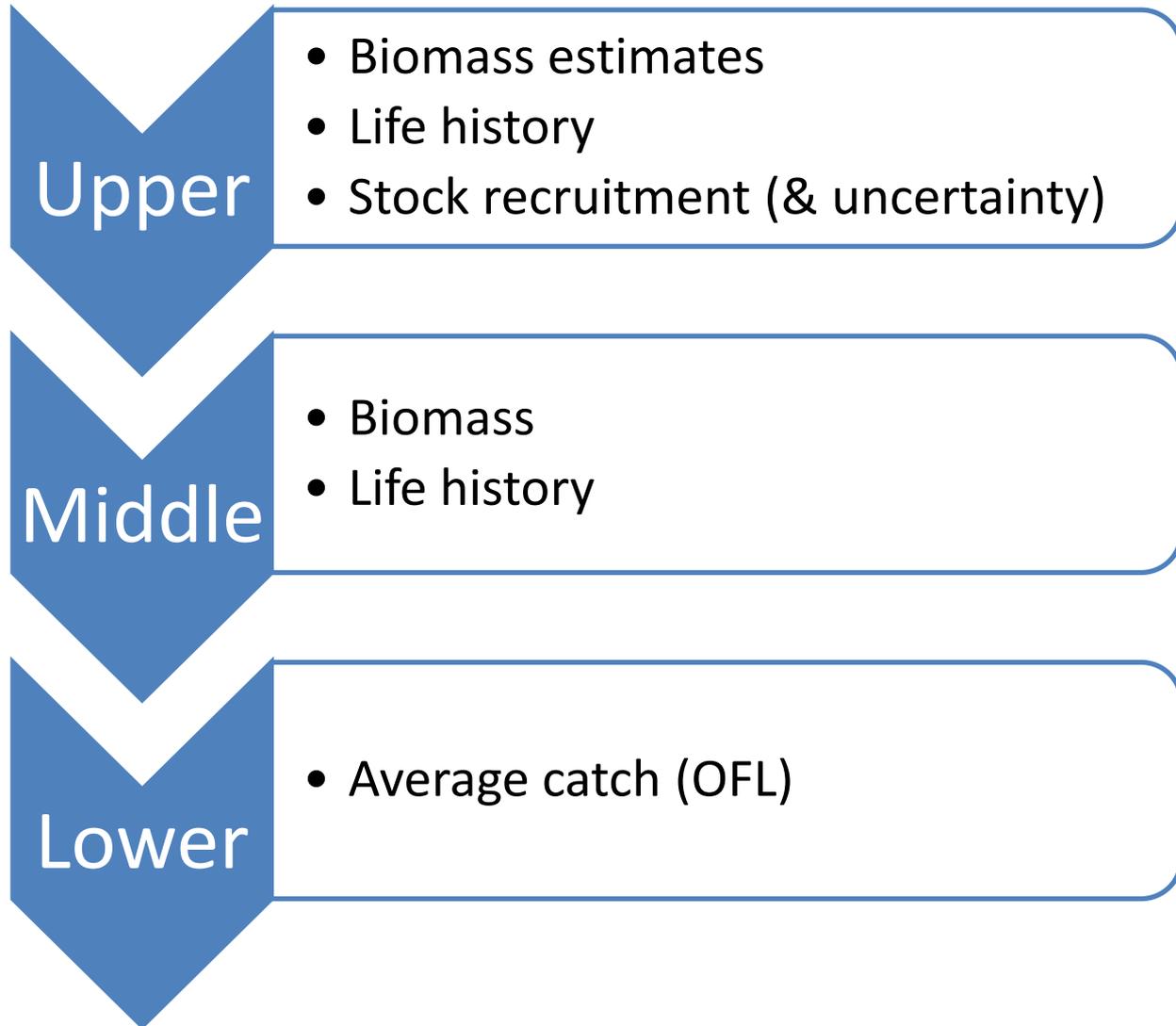
# Summary of Stocks use of FI/FD Data Sources

Species (# of stocks)	Fishery Independent (Surveys)				Fishery Dependent Data				
	Bottom trawl	Acoustic	Longline	Other (IPHC, ADFG)	Federal fishery management catch reports	Federal fishery observer collected biological and catch data	Federal fishery CPUE & logbook data	State (AK) fishery catch estimate reports	State (AK) fishery observer collected data
Pollock (4)	4	4		1	4	4		1	
Pacific cod (2)	2				2	2	2	2	
Sablefish (1)	1		1	1	1	1	1	1	
Flatfish (14)	14		1		14	14			
Rockfish (13)	13		2	2	13	13	1	1	
Atka mackerel (2)	2				2	2			
Crab (4)	4			2	4	4		4	4
Non-targets (10)	10		2	2	10	10	1	5	

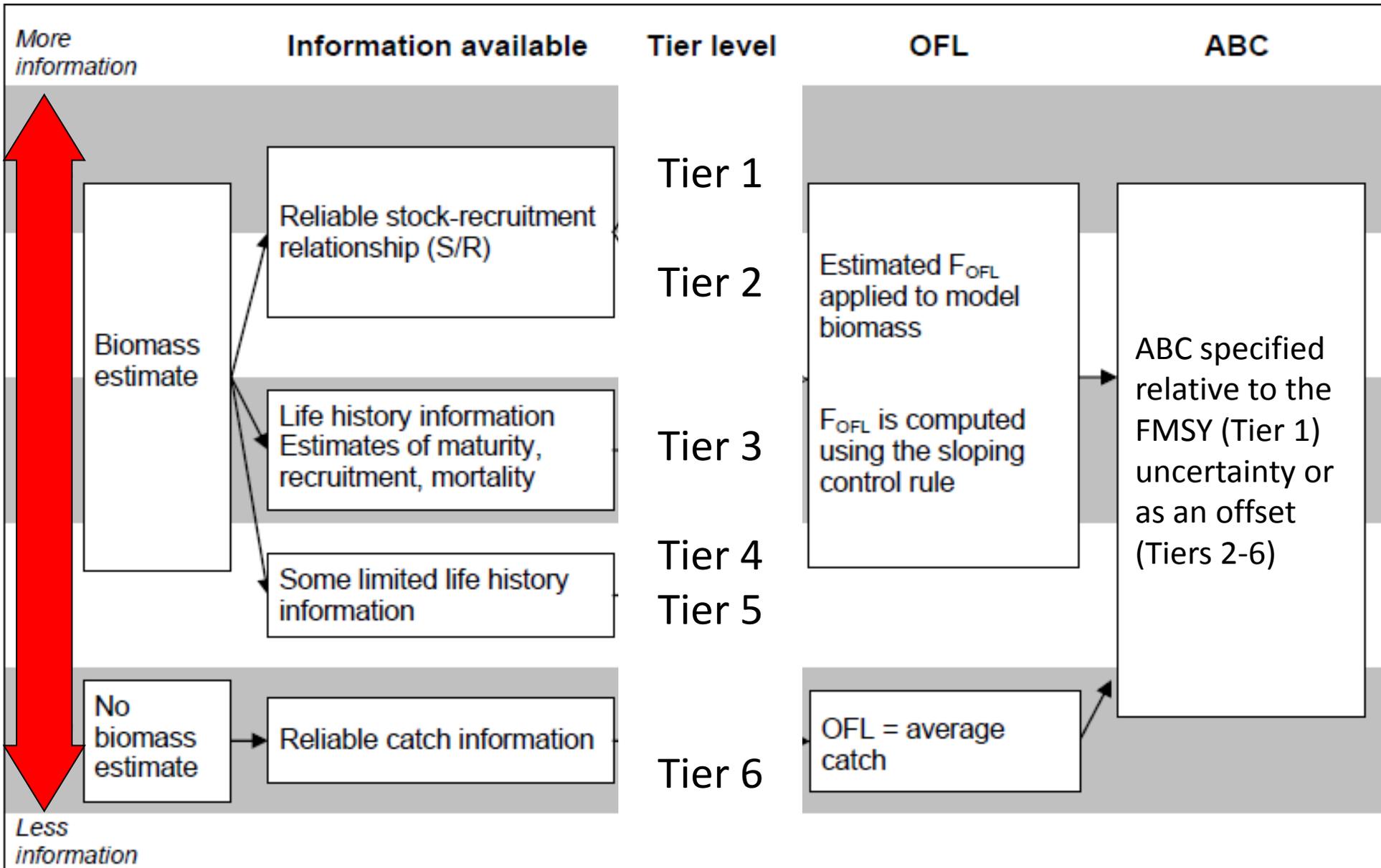
# Tiers for ABC/OFL control rules

For each stock

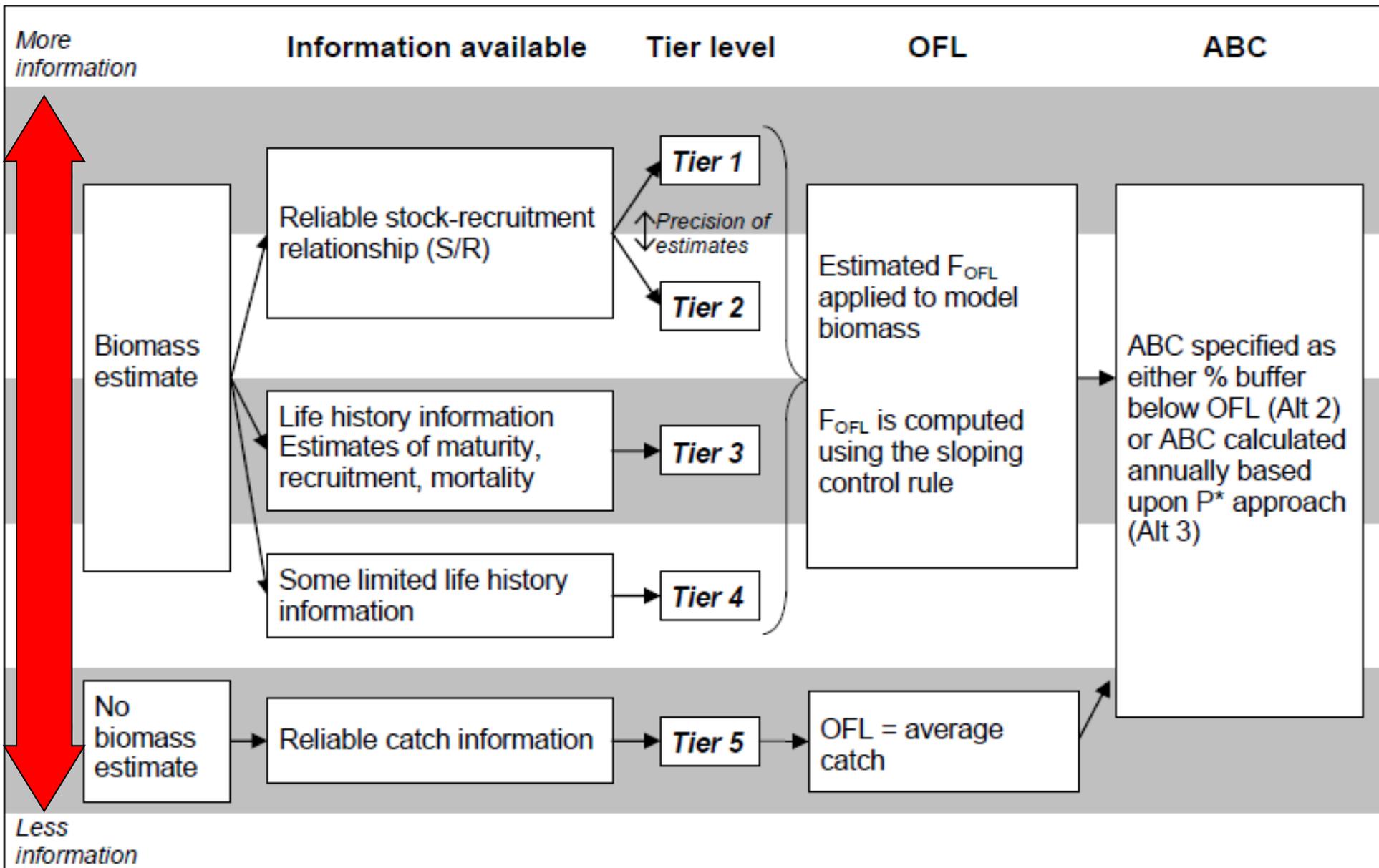
Information

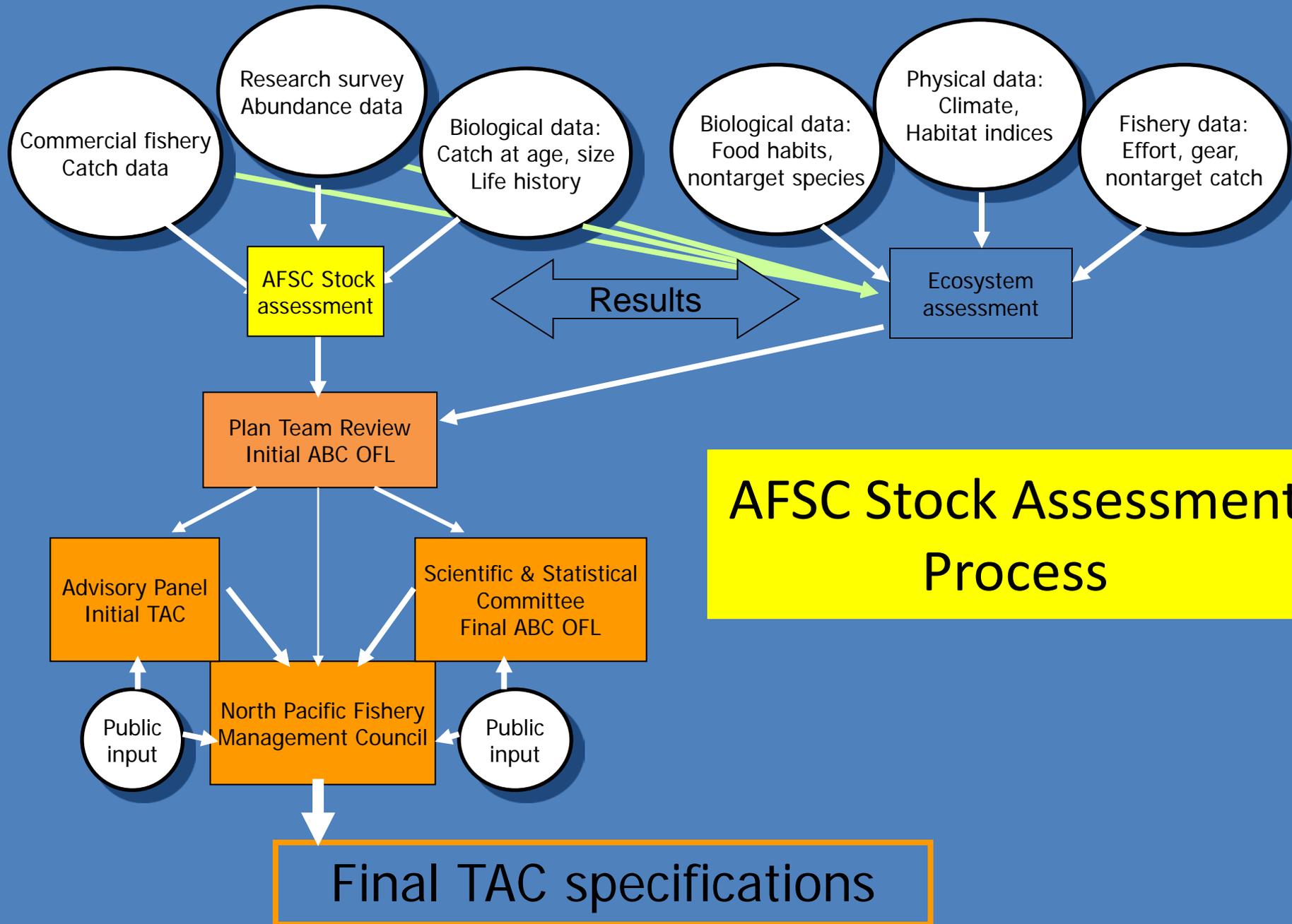


# Groundfish OFL Tier system



# Current BSAI Crab OFL Tier system





# AFSC Stock Assessment Process

# Timing of Annual Process

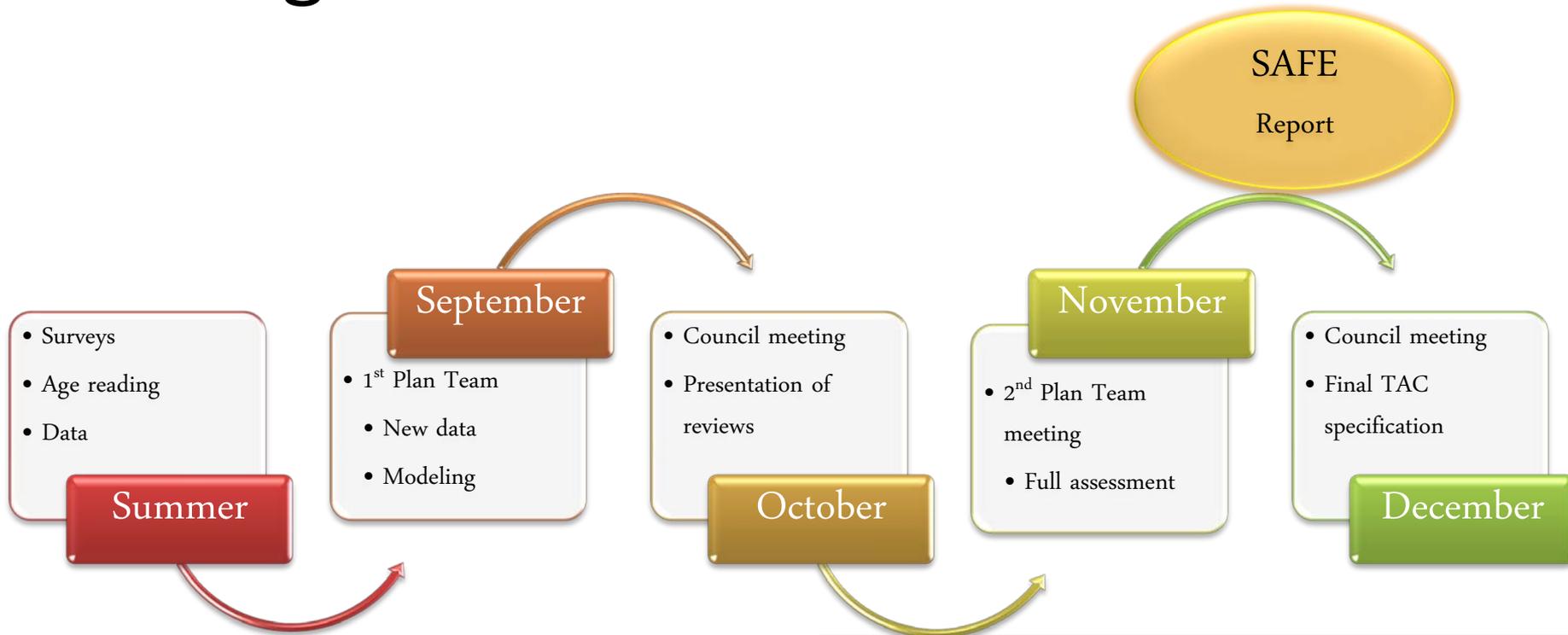
## BSAI Crab

- Spring - Models reviewed and approved
- 15 Aug - EBS summer trawl survey estimates available (10days after survey ends)
- 30 Aug SAFE chapters for internal AFSC review
- 6 Sept SAFE chapters for NPFMC CPT/SSC review
- 18-21 Sep NPFMC CPT meeting
- 24 Sep Final SAFE chapters to NPFMC
- 1 Oct NPFMC SSC sets ACLs

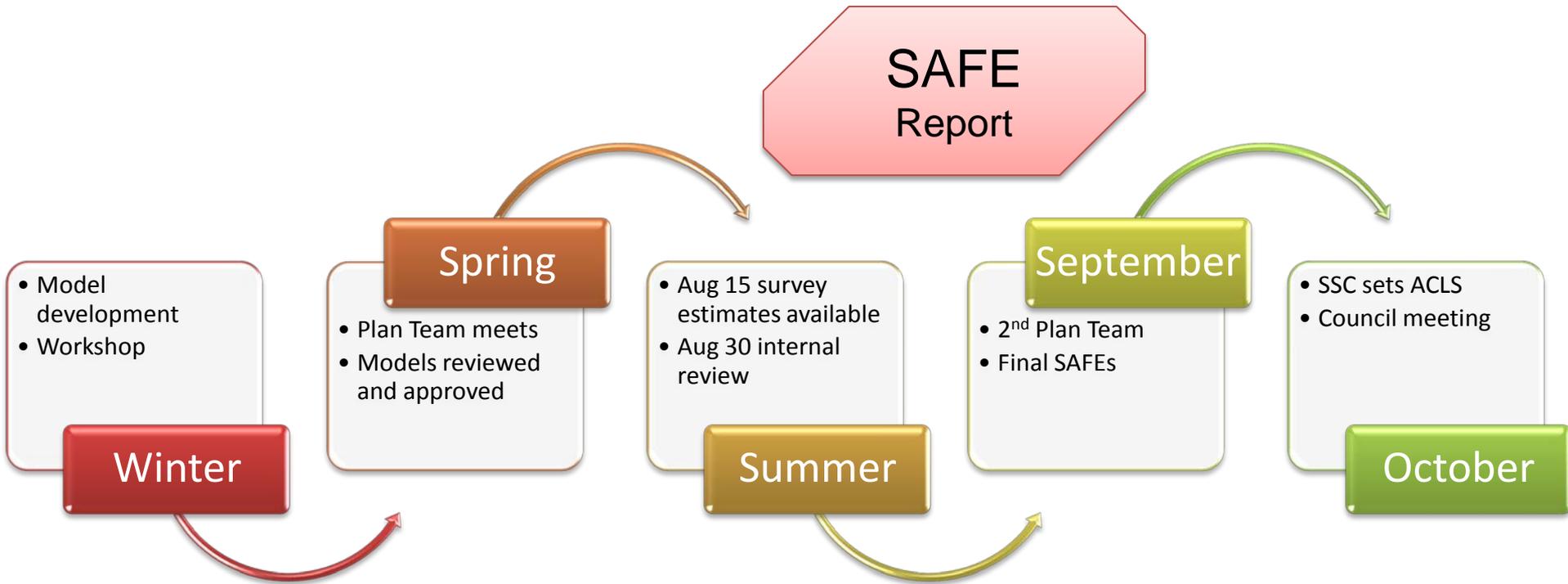
## BSAI and GOA Groundfish

- Sep/Oct New Models and assessments reviewed and approved
- Sep/early Oct - Trawl survey estimates available
- 30 Oct SAFE chapters submitted for internal AFSC review
- 12 Nov SAFE chapters sent out for NPFMC groundfish plan team meeting
- 25 Nov Final SAFE chapters to NPFMC
- 9 Dec NPFMC SSC sets ACLs

# Timing of Annual Process-Groundfish



# Timing of Annual Process—crab



# Strengths/Challenges/Solutions

- Strengths
  - Data availability for most assessments is recent year
  - Review process is transparent, open, multidisciplinary and multiorganizational
  - Good communication between NPFMC, AKR, and State of AK
  - Good internal communication between data providers, ecosystem scientists and stock assessment leads
  - Responds to NPFMC, State of AK and stakeholder needs
- Challenges
  - Data turnaround time is quick
  - Assessment and Review process is similarly compressed
- Solutions
  - Continue to refine automated error checking and data validation processes
  - More assessment staff to reduce number of assessments that must be produced in short time period
  - Continue to prioritize the most important data for near-real time inclusion by assessment