This meeting of the Coastal Pelagic Species Advisory Subpanel (CPSAS) will be held in conjunction with the March Pacific Fishery Management Council meeting. The CPSAS will convene at 8:00 a.m. on March 10 in Capitol Salon C.

MONDAY MARCH 10, 2014 – 8:00 A.M.

A. Call to order, introductions, approve agenda
   Assign rapporteurs
   (8:00 a.m., 0.5 hours)

   Diane Pleschner-Steele
   Mike Okoniewski

B. Pacific Sardine Temperature Parameter Review
   (8:30 a.m., 1.5 hours - report to Council)

   Lorna Wargo

B. Pacific Sardine Temperature Parameter Review (continued)
   (10:30 a.m., 1 hour)

   Lorna Wargo

C. Electronic Fish Tickets
   (11:30 a.m., 0.5 hours – Discussion)

   David Haworth

LUNCH

D. U.S. Coast Guard Briefing on Jones Act/Net Tonnage
   (1:00 p.m., 1 hour – Discussion; joint with HMSAS)

   Brian Corrigan

E. Magnuson Act Priorities
   (2:00 p.m., 1 hour – Report to Council)

   Diane Pleschner-Steele

BREAK

F. Review Draft Reports
   (3:30 p.m., 1 hour)

   All
G. KZO Sea Farms Letter/Update
   (4:30 p.m., 0.5 hours) - Report

Diane Pleschner-Steele

H. Public Comment
   (5:00 p.m., 0.5 hours)

All

I. Finalize Reports, Wrap Up
   (5:30 p.m., 0.5 hours)

ADJOURN

PFMC
02/14/14
PROPOSED AGENDA
Enforcement Consultants
Pacific Fishery Management Council
Doubletree Hotel Sacramento
Yuba Room (March 8 and 10)/ Capitol Salon C (March 9 and 11-12)
2001 Point West Way
Sacramento, California 95815
Telephone: 916-929-8855
March 8-12, 2014

SATURDAY, MARCH 8, 2014 – 4:30 PM

A. Call to Order

1. Introductions
2. Designation of Chairmanship Through Sept 2014
3. Review and Adopt Agenda

B. Council Agenda Items for Possible Comment

There may or may not be enforcement issues associated with all of the following items. Items on the Council Agenda, but not listed here, may also be considered during the Enforcement Consultants (EC) meeting.

Groundfish Management
D.1 National Marine Fisheries Service Report
   Council Discussion
D.4 Consideration of Inseason Adjustments, Including Carryover
   Council Action: Adopt Recommendations for Adjustments to 2014 Groundfish Fisheries, Including Carryover

Salmon Management
F.2 Identification of Management Objectives and Preliminary Definition of 2014 Salmon Management Alternatives
   Council Action: Adopt Council Recommendations for Initial Alternatives for Salmon Technical Team Collation and Description
F.6 Adoption of 2014 Management Alternatives for Public Review
   Council Action: Adopt Management Alternatives for Public Review

Pacific Halibut Management
G.2 Incidental Catch Recommendations for the Salmon Troll and Fixed Gear Sablefish Fisheries
   Council Action: Adopt Public Review Options for 2014 and April 2015; Make Recommendations for Inseason Changes to April 2014 Retention Limits, as Necessary

Enforcement Issues
H.1 Vessel Monitoring System Ping Rate
   Council Discussion

Highly Migratory Species Management
K.2 Vessel Monitoring Systems for Highly Migratory Species Fisheries
   Council Action: Consider the NMFS Report and Provide Guidance for Implementation of VMS in Highly Migratory Species Fisheries
K.5 Drift Gillnet Monitoring, Management, and Alternative Gear Report
   Council Action: Provide Guidance on Potential Changes in the Drift Gillnet Fishery

Administrative Matters
J.1 Magnuson-Stevens Act Reauthorization Priorities and Other Legislative Matters
   Council Action: Consider the Report and Recommendations of the Legislative Committee
J.4 Future Council Meeting Agenda and Workload Planning
   Council Action: Discussion and Guidance on Future Meeting Agenda and Workload Planning

C. Other Topics

1. Enforcement Presentations at Future Council Meetings
2. Items for Enforcement Corner of the Council Newsletter
3. Other

D. Public Comment

SUNDAY, MARCH 9, 2014

Meeting continues as necessary in Capitol Salon C.

MONDAY, MARCH 10, 2014

Meeting continues as necessary in Yuba Room.

TUESDAY, MARCH 11, 2014 THROUGH WEDNESDAY, MARCH 12, 2014

Meeting continues as necessary in Capitol Salon C

ADJOURN

PFMC
02/12/14
PROPOSED AGENDA
Groundfish Advisory Subpanel
Pacific Fishery Management Council
Doubletree Hotel Sacramento
Capitol Salon D
2001 Point West Way
Sacramento, California 95815
Telephone: 916-929-8855

Please Note: Dates and times on this agenda are subject to change once the meeting begins. Public comment will be taken at the discretion of the GAP Chair.

FRIDAY, MARCH 7, 2014 – 8 AM

**GAP Administrative Matters**

1. Roll Call, Introductions, Announcements, etc. Tommy Ancona, Chair
2. Elect Chair and Vice-Chair for 2014
3. Opening Remarks and Agenda Overview Kelly Ames
4. Approve Agenda

C. *Ecosystem Management*

1. California Current Ecosystem Report Including Integrated Ecosystem Assessment
   (9 a.m.; Report to the Council on Saturday) Brian Wells

D. *Groundfish Management*

2. Essential Fish Habitat (EFH) Evaluation Criteria and Phase 2 Report
   (10 a.m.; Report to the Council on Saturday) Michelle McClure, Brad Pettinger

6. Trawl Rationalization Trailing Actions
   (1 p.m.; Report to the Council on Monday) Jim Seger

SATURDAY, MARCH 8, 2014 – 8 AM

**GAP Administrative Matters (continued)**

5. Draft and Review Statements
   (8 a.m.)

D. *Groundfish Management*

3. Consider Barotrauma Device Mortality Rates
   (8:30 a.m.; Report to the Council on Sunday) John Budrick
5. Biennial Harvest Specifications for 2015-2016 Groundfish Fisheries
   (10 a.m.; Report to the Council on Monday)  Kit Dahl, Kelly Ames

**H. Enforcement**

1. Vessel Monitoring System Ping Rate  Dayna Matthews, Jim Seger
   (2 p.m.; Report to the Council on Tuesday)

**D. Groundfish Management**

4. Consider Inseason Adjustments, Including Carryover  Bob Leos
   (4 p.m.; Joint Session with GMT; Report to the Council on Sunday)

**SUNDAY, MARCH 9, 2014 – 8 AM**

**GAP Administrative Matters (continued)**

6. Draft and Review Statements  (8 a.m.)

**G. Pacific Halibut**

   (8:30 a.m.; Report to the Council on Monday)

2. Incidental Catch Recommendations for the Salmon Troll and Fixed Gear Sablefish
   Fisheries  Kelly Ames
   (10 a.m.; Report to the Council on Monday)

**MONDAY, MARCH 10, 2014 – 8 AM**

**GAP Administrative Matters (continued)**

8. Draft and Review Statements  (8 a.m.)

**J. Administrative Matters (continued)**

4. Future Council Meeting Agenda and Workload Planning  (8:30 a.m.; Report to the Council on Thursday)

**ADJOURN**

PFMC
02/13/14
PROPOSED AGENDA
Groundfish Management Team
Pacific Fishery Management Council
Doubletree Hotel Sacramento
Sacramento Room
2001 Point West Way
Sacramento, California 95815
Telephone: 916-929-8855
March 7-10, 2014

Please Note: Dates and times on this agenda are subject to change once the meeting begins. Public comment will be taken at the discretion of the GMT Chair.

FRIDAY, MARCH 7, 2014 – 8 AM

GMT Administrative Matters

1. Roll Call, Introductions, Announcements, etc. Dan Erickson, Chair
2. Elect Chair and Vice-Chair for 2014
3. Opening Remarks and Agenda Overview Kelly Ames
4. Approve Agenda

C. Ecosystem Management

1. California Current Ecosystem Report Including Integrated Ecosystem Assessment Phil Levin, Brian Wells
   (10 a.m.; Joint Session with SSC, Report to the Council on Saturday)

D. Groundfish Management

3. Consider Barotrauma Device Mortality Rates John Budrick, Ian Taylor
   (11 a.m.; Attend SSC Discussion, Report to the Council on Sunday)

2. Essential Fish Habitat (EFH) Evaluation Criteria and Phase 2 Report Michelle McClure, Brad Pettinger
   (1 p.m.; Joint Session with SSC, Report to the Council on Saturday)

GMT Administrative Matters (continued)

5. Draft and Review Statements (3 p.m.)

D. Groundfish Management

4. Consider Inseason Adjustments, Including Carryover Bob Leos
   (4 p.m.; Report to the Council on Sunday)
SATURDAY, MARCH 8, 2014 – 8 AM

*GMT Administrative Matters (continued)*

6. Draft and Review Statements
   (8 a.m.)

**D. Groundfish Management**

5. Biennial Harvest Specifications for 2015-2016 and Beyond Groundfish Fisheries
   (1 p.m.; Attend SSC Discussion, Report to the Council on Monday) John DeVore, Kit Dahl

4. Consider Inseason Adjustments, Including Carryover
   (4 p.m.; Joint Session with GAP; Report to the Council on Sunday) Bob Leos

SUNDAY, MARCH 9, 2014 – 8 AM

*GMT Administrative Matters (continued)*

7. Draft and Review Statements
   (8 a.m.)

**D. Groundfish Management**

5. Biennial Harvest Specifications for 2015-2016 and Beyond Groundfish Fisheries
   (1 p.m.; GMT Discussion, Report to the Council on Monday) John DeVore, Kit Dahl

6. Trawl Rationalization Trailing Actions
   (3 p.m.; Report to the Council on Monday) Jim Seger

MONDAY, MARCH 10, 2014 – 8 AM

*GMT Administrative Matters (continued)*

8. Draft and Review Statements
   (8 a.m.)

**J. Administrative Matters (continued)**

4. Future Council Meeting Agenda and Workload Planning
   (10 a.m.; Report to the Council on Thursday)

*GMT Administrative Matters (continued)*

9. Draft and Review Statements
   (11 a.m.)

ADJOURN

PFMC
02/13/14
Process notes: Numbering reflects the Council agenda. Starred* items appear on the Council agenda. Joel Kawahara will be Chair for this meeting and Lisa Wooninck will act as timekeeper. Presenters, please write background for reports prior to the meeting. If your item is an informational update, please circulate it prior to the meeting. Note-takers should take notes primarily on committee discussion (not background).

FRIDAY, MARCH 7, 2014 – 8:30 AM

A. Call to Order and Habitat Administrative Matters
   1. Introductions and Approval of Agenda
      Joel Kawahara

D. Groundfish (8:45 a.m.)
   2. Essential Fish Habitat (EFH) Evaluation Criteria Phase 2 Report*  Brad Pettinger and
      Michelle McClure
      Notes: Arlene Merems

BREAK (10-10:15 A.M.)

C. Ecosystem-Based Management
   1. California Current Ecosystem Report Including Integrated Ecosystem Assessment*  Correigh Greene, Phil Levin
      Notes: Tim Roth

E. Habitat Matters (11:30 a.m.)
   1. Pacific Marine Estuarine Project Update for Council  Correigh Greene, Fran Recht
      Notes: Prewritten

LUNCH (12:00-1:00 PM)

A. Habitat Administrative Matters (1:00 p.m.)
   1. Develop Main Points for C1, D2 Reports  HC
E. Habitat Matters (1:30 p.m.)
   2. KZO Sea Farms Letter/Update  
      Eric Wilkins  
      Notes: Jennifer Quan

BREAK (1:45-2:00 p.m.)

3. Coleman Hatchery Releases  
   Tim Roth/TBA  
   Notes: Lisa Wooninck

4. California Drought Update (Including Klamath and Sacramento) (2:45 p.m.)  
   Mike Orcutt/TBA  
   Notes: Eric Wilkins

PUBLIC COMMENT (3:30 P.M.)

5. Bay/Delta Conservation Plan, Including Delta Tunnel (3:45 p.m.)  
   Michael Tucker, NMFS  
   Notes: Correigh Greene

A. Habitat Administrative Matters (4:30 p.m.)
   2. Finalize Reports on C1, D2, Habitat Report  
      HC
   3. Other Urgent Issues for Council Attention  
      HC
   4. April HC Agenda and Letters  
      HC
   5. Comments/Questions on HC Structure/Function (if any)  
      HC

ADJOURN

PFMC
02/12/14
This meeting is open to the public and public comments will be accepted at the discretion of the Highly Migratory Species Advisory Subpanel (HMSAS) chair. Agenda times are approximate and are subject to change.

MONDAY, MARCH 10, 2014, 8:00 A.M.

A. Call to Order (30 min.)
   1. Introductions
   2. Approval of Agenda
   3. Election of Officers

B. Joint Informational Briefing for the Highly Migratory Species Management Team and Highly Migratory Species Advisory Subpanel in the Terrace Room (3 hours)
   1. International Regional Fishery Management Organization Update (Agenda Item K.3) – Kit Dahl
      a. International management of North Pacific albacore including Northern Committee Precautionary Management Framework
      b. South Pacific albacore (proposed revisions to CMM 2010-05)
   2. U.S./Canada Albacore Treaty (Agenda Item K.4) – Mark Helvey
   2. Drift Gillnet Monitoring, Management and Alternative Gear (Agenda Item K.5) – Craig Heberer, Steve Stohs
      a. Pacific Offshore Take Reduction Team meeting results
      b. Highly Migratory Species Management Team Report

C. Joint U.S. Coast Guard Briefing on Jones Act/Net Tonnage Issues for the HMSAS and CPSAS in the Capitol Room, Salon C (1 p.m., 1 hour) – Commander Vivian Louie, Lieutenant Cody Dunagan, Mr. Brian Corrigan

D. Vessel Monitoring System (VMS) for Highly Migratory Species (HMS) Fisheries (Agenda Item K.2, 1 hour) – Heidi Taylor, Mark Helvey

E. Magnuson-Stevens Act Reauthorization and Other Legislative Matters (Agenda Item J.1) – Jennifer Gilden
   1. MSA reauthorization
   2. Antigua Convention implementation legislation

F. Protecting Unfished and Unmanaged Forage Fish Species (Agenda Item J.1, April
A report from the Ecosystem Workgroup will be available electronically for the HMSAS to review. The HMSAS has the option of drafting a report, which would be submitted under this agenda item for April Council meeting, which the HMSAS will not be attending.

TUESDAY, MARCH 11, 2014, 8:00 A.M.

G. Draft Reports
1. Assignment of discussion leaders and rapporteurs
2. VMS for HMS (Agenda Item K.2)
3. Western and Central Pacific Fisheries Commission (WCPFC) activities (Agenda Item K.3)
   a. Review commitments and discussion in last WCPFC Northern Committee (NC) meeting
   b. Discuss if the NC or Inter-American Tropical Tuna Commission is the best forum for North Pacific albacore international management
   c. Discuss China’s compliance with CMM 2010-05: CCMs “shall not increase the number of their fishing vessels actively fishing for South Pacific albacore in the Convention Area south of 20°S above current (2005) levels or recent historical (2000-2004) levels.”
   d. Review WCPFC efforts to close high seas fisheries including those for South Pacific albacore
   e. Review WCPFC process for determining bigeye catch limits for U.S. longline fisheries in CMM 2013-01
5. Drift Gillnet Monitoring and Management (Agenda Item K.5)

H. Other Matters
1. Discuss ways to get funding to the NMFS Southwest Fisheries Science Center for assessment science and data collection
2. Review Pacific Council role per HMS Fishery Management Plan in managing sustainable high seas fisheries that are currently in process of developing management measures

I. Finalize Reports

WEDNESDAY, MARCH 12, 2013, 8:00 A.M.

J. Review/Finalize Reports, As Needed

ADJOURN

PFMC
02/13/14
PROPOSED AGENDA  
Highly Migratory Species Management Team  
Garden Room  
Doubletree Hotel Sacramento  
2001 Point West Way  
Sacramento, California 95815  
Telephone: 916-929-8855

This meeting is open to the public and public comments will be accepted at the discretion of the Highly Migratory Species Management Team (HMSMT) chair. Agenda times are approximate and are subject to change.

MONDAY, MARCH 10, 2014, 8:00 A.M.

A. Call to Order (30 min.)

1. Introductions
2. Approval of Agenda
3. Election of Officers

B. Joint Informational Briefing for the HMSMT and Highly Migratory Species Advisory Subpanel (3 hours)

<table>
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<th>Terrace Room</th>
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1. International Regional Fishery Management Organization (RFMO) Update (Agenda Item K.3) – Kit Dahl
   a. International management of North Pacific albacore including Northern Committee Precautionary Management Framework
   b. South Pacific albacore (proposed revisions to Conservation Management Measure (CMM) 2010-05)
   c. CMM 2013-01 (tropical tuna measure)

2. US/Canada Albacore Treaty (Agenda Item K.4) – Mark Helvey

3. Drift Gillnet Monitoring, Management and Alternative Gear (Agenda Item K.5) – Craig Heberer, Steve Stohs
   a. Pacific Offshore Take Reduction Team meeting results
   b. HMSMT Report

C. Protecting Unfished and Unmanaged Forage Fish Species (Agenda Item J.1, April Council Meeting) – Cyreis Schmitt

A report from the Ecosystem Workgroup will be available electronically for the HMSMT to review. The HMSMT has the option of drafting a report, which would be submitted under this agenda item for April Council meeting, which the HMSMT will not be attending.
D. Draft Reports

1. Assignment of discussion leaders and rapporteurs
2. Vessel Monitoring Systems for HMS
3. International RFMO Issues

TUESDAY, MARCH 11, 2014, 8:00 A.M.

E. Draft Reports

1. US/Canada Albacore Treaty
2. Drift Gillnet Monitoring and Management

F. Finalize Reports

PFMC
02/14/14
PROPOSED AGENDA
Legislative Committee
Doubletree Hotel Sacramento
Capitol Salon A
2001 Point West Way
Sacramento, CA 95815
Phone: 916-929-8855
March 7, 2014

FRIDAY, MARCH 7, 2014 – 1:00 P.M.

A. Call to Order
   1. Introductions
   2. Approval of Agenda

B. Council Staff Summaries of Federal Legislation

C. Discussion of House Discussion Draft MSA Legislation

D. General Discussion

E. Public Comment

F. Future Meeting Plans and Other Business

G. Develop Report to Council

ADJOURN

PFMC
02/12/14
This is a public meeting and time for public comment may be provided at the discretion of the Salmon Advisory Subpanel (SAS) Chair. This is not a public hearing; it is a work session for the primary purpose of reviewing items coming before the Pacific Fishery Management Council at their concurrent meeting.

SATURDAY, MARCH 8, 2014 - 8 AM

SAS Administrative Matters

Call to Order

Roll Call, Introductions, Announcements, etc. Butch Smith, Chair

Opening Remarks and Agenda Overview Mike Burner

Approve Agenda SAS

Elect Chair and Vice Chair SAS

Assignments to Draft Statements Chair

Council Agenda Items for Review and Possible Comment

F. Salmon Management

1. Review of 2013 Fisheries and 2014 Stock Abundance Forecasts SAS/STT

   (9 a.m. Saturday Discussion between STT and SSC;
   Report to the Council on Sunday - 8 a.m.)

2. Identification of Management Objectives and Preliminary Definition of 2014 Salmon Management Alternatives SAS/STT

   (10 a.m. Saturday Discussion with the STT;
   Report to the Council Sunday – 9:30 a.m.)

SATURDAY, MARCH 8, 2014 - continued

E. Habitat

1. Current Habitat Issues  
   Jim Hie  
   (Report to the Council on Saturday – 3 p.m.)

SAS Administrative Matters (continued)

Review Statements

SUNDAY, MARCH 9, 2014 - 8 AM

SAS Administrative Matters (continued)

Review Statements

Council Agenda Items for Review and Possible Comment

F. Salmon Management (continued)

   Mike Burner  
   (Report to the Council on Monday – 8 a.m.)

G. Pacific Halibut Management

2. Incidental Catch Regulations in the Salmon Troll and Fixed Gear Sablefish Fisheries (2 p.m.)  
   Kelly Ames  
   (Report to the Council on Monday – 2:30 p.m.)

SAS Administrative Matters (continued)

Review Statements

MONDAY, MARCH 10, 2014 - 8 AM

SAS Administrative Matters (continued)

Review Statements

Update on Lower Columbia River Natural Coho Workgroup  
   Mike Burner

Council Agenda Items for Review and Possible Comment

J. Council Administrative Matters

1. Magnuson-Stevens Act Reauthorization Priorities and Other Legislative Matters  
   (Report to the Council on Tuesday – 1 p.m.)

H. Enforcement Issues

1. Vessel Monitoring System Ping Rate  
   Jim Seger  
   (Report to the Council on Tuesday – 8 a.m.)
SAS Administrative Matters (continued)

Review Statements

TUESDAY, MARCH 11, 2014 - 8 AM

SAS Administrative Matters (continued)

Review Statements

Council Agenda Items for Review and Possible Comment

F. Salmon Management (continued)

5. Further Council Direction for 2014 Management Alternatives Mike Burner
   (Report to the Council on Wednesday – 8 a.m.)

8. Sacramento Winter Chinook Harvest Control Rule Mike O’Farrell
   (Report to the Council on Thursday – 9:30 a.m.)

9. California Coastal Chinook Update Mike Burner
   (Report to the Council on Thursday – 1 p.m.)

SAS Administrative Matters (continued)

Review Statements

WEDNESDAY, MARCH 12, 2014 - 8 AM

SAS Administrative Matters (continued)

Review Statements

Council Agenda Items for Review and Possible Comment

F. Salmon Management (continued)

6. Adoption of 2014 Management Alternatives for Public Review Mike Burner
   (Report to the Council on Thursday – 8 a.m.)

J. Council Administrative Matters

4. Future Council Meeting Agenda and Workload Planning Mike Burner
   (Report to the Council on Thursday – 2 p.m.)

ADJOURN

PFMC
02/12/14
PROPOSED AGENDA
Scientific and Statistical Committee
Pacific Fishery Management Council
Doubletree Hotel Sacramento
Capitol Salon C Room
2001 Point West Way
Sacramento, California 95815
Telephone: 916-929-8855

March 7-8, 2014

Scientific and Statistical Committee (SSC) meetings are open to the public, and public comment will be accepted during the scheduled public comment period. Public comment at times other than the established public comment period will be taken at the discretion of the SSC Chair.

Committee member work assignments are noted in parentheses at the end of each agenda item. The first name listed is the discussion leader and the second, the rapporteur. A suggestion for the amount of time each agenda item should take is provided. At the time the agenda is approved, priorities can be set and these times revised. Discussion leaders should determine whether more or less time is required and request the agenda be amended.

FRIDAY, MARCH 7, 2014 – 8 AM

A. Call to Order and Scientific and Statistical Committee (SSC) Administrative Matters

1. Introductions
2. Report of the Executive Director
   Donald McIsaac
3. Approve Agenda and November 2013 Minutes
4. Election of Officers for the April 2014 – March 2016 term
5. Subcommittee Assignments - Current assignments are listed at the end of this agenda
6. Open Discussion and Future Meeting Planning
   (8 a.m., 1.5 hours) No Report to Council

J. Council Administrative Matters

3. Membership Appointments and Council Operating Procedures (SSC Closed Session)
   (9:30 a.m., 0.5 hours) Report to the Council during Council Closed Session, Saturday
C. Ecosystem Management

1. California Current Ecosystem Report Including Integrated Ecosystem Assessment
   Phil Levin, Brian Wells
   (10 a.m., 1 hour, Thomson, Satterthwaite) Joint Session with the Groundfish Management Team; Report to the Council on Saturday

D. Groundfish Management

3. Consider Barotrauma Device Mortality Rates
   John Budrick, Ian Taylor
   (11 a.m., 1 hour, Key, Cooper) Report to the Council on Sunday

LUNCH

D. Groundfish Management, continued

2. Essential Fish Habitat (EFH) Evaluation Criteria and Phase 2 Report
   Michelle McClure, Brad Pettinger
   (1 p.m., 1 hour, Sampson, Dorn) Joint Session with the Groundfish Management Team; Report to the Council on Saturday

I. Coastal Pelagic Species Management

1. Pacific Sardine Temperature Parameter Review
   Lorna Wargo
   (2 p.m., 1.5 hours, Huppert, Jagielo) Report to the Council on Tuesday

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PUBLIC COMMENT PERIOD

3:30 p.m. (or immediately following Agenda Item I.1)
Public comments, including comments on issues not on the agenda, are accepted at this time.

A. SSC Administrative Matters, Continued

7. Review Statements
   (4 p.m. or following public comment period)
A. SSC Administrative Matters, continued

8. Review Statements
   (8 a.m., 1 hour)

F. Salmon Management

1. Review of 2013 Fisheries and Summary of 2014 Stock Abundance Forecasts
   Robert Kope
   (9 a.m., 1 hour, Petrosky, Lawson) Report to the Council on Sunday

8. Sacramento Winter Chinook Harvest Control Rule
   Mike O’Farrell
   (10 a.m., 1 hour, Satterthwaite, Conrad) Report to the Council on Thursday

9. California Coastal Chinook Update
   Mike Burner
   (11 a.m., 0.5 hours, Lawson, Petrosky) Report to the Council on Thursday

LUNCH

D. Groundfish Management, continued

5. Biennial Harvest Specifications for 2015-2016 Groundfish Fisheries
   a. Overfishing Limits for Select Species
   Owen Hamel
   b. Advice on Estimating the Monterey-area Cowcod ACL
   Owen Hamel
   c. Advice on Managing Data-Poor Species with Stock-Specific Harvest Specifications
   John DeVore
   d. Advice on Bayesian Projection Methodology
   E.J. Dick
   e. Review Status of Amendment 24 Process
   John DeVore, Kit Dahl
   (1 p.m., 2.5 hours, Tsou, Punt) Report to the Council on Monday

Stock Assessment Priorities for 2015
John DeVore
(3:30 p.m., 0.5 hours, Key, Sampson) Report to the Council in June

A. SSC Administrative Matters, continued

9. Review Statements
   (4 p.m.)

ADJOURN
## SSC Subcommittee Assignments, November 2013

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<th>Salmon</th>
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**Bold** denotes Subcommittee Chairperson

PFMC  
02/14/14
MINUTES
Scientific and Statistical Committee
Pacific Fishery Management Council
Hilton Orange County/Costa Mesa Hotel
Emerald Bay II Room
3050 Bristol Street
Costa Mesa, California 92626
Telephone: 714-540-7000

October 31-November 1, 2013

Members in Attendance
Dr. Andrew Cooper, Simon Fraser University, Vancouver, B.C.
Mr. Robert Conrad, Northwest Indian Fisheries Commission, Olympia, WA
Dr. Martin Dorn, National Marine Fisheries Service, Seattle, WA
Dr. Owen Hamel, SSC Chair, National Marine Fisheries Service, Seattle, WA
Dr. Daniel Huppert, University of Washington, Seattle, WA
Mr. Tom Jagielo, Seattle, WA
Ms. Meisha Key, SSC Vice-Chair, California Department of Fish and Wildlife, Santa Cruz, CA
Dr. Peter Lawson, National Marine Fisheries Service, Newport, OR
Dr. Todd Lee, National Marine Fisheries Service, Seattle, WA
Dr. Charles Petrosky, Idaho Department of Fish and Game, Boise, ID
Dr. André Punt, University of Washington, Seattle, WA
Dr. David Sampson, Oregon Department of Fish and Wildlife, Newport, OR
Dr. William Satterthwaite, National Marine Fisheries Service, Santa Cruz, CA
Ms. Cindy Thomson, National Marine Fisheries Service, Santa Cruz, CA
Dr. Tien-Shui Tsou, Washington Department of Fish and Wildlife, Olympia, WA

Members Absent
Dr. Vladlena Gertseva, National Marine Fisheries Service, Seattle, WA

Call to Order and Scientific and Statistical Committee (SSC) Administrative Matters

The meeting was called to order at 8 a.m. on Thursday, October 31, 2013. Council Executive Director, Dr. Donald McIsaac briefed the SSC on priority agenda items.
### SSC Recusals for the November 2013 Meeting

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<td>H.6 Biennial Harvest Specifications</td>
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<tr>
<td>Mr. Tom Jagielo</td>
<td>E.2 Coastal Pelagic Species 2014 EFPs</td>
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<td>Dr. Pete Lawson</td>
<td>C.2 Salmon Methodology Review</td>
<td>Dr. Lawson contributed to the 2013 Technical Revision to the OCN Coho Work Group Harvest Matrix.</td>
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<tr>
<td>Dr. Will Satterthwaite</td>
<td>C.2 Salmon Methodology Review</td>
<td>Dr. Satterthwaite contributed to the Sacramento fall Chinook analysis.</td>
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### C. Salmon Management

2. Salmon Methodology Review

Five topics recommended for review at the abbreviated Salmon Methodology Review were reviewed by the Scientific and Statistical Committee (SSC). SSC comments on each of the topics follow:

**Technical revision to the Oregon Coastal Natural (OCN) coho work group harvest matrix**

In November 2012 the Council approved using the wild coho salmon jack-to-smolt ratio from the Mill Creek (Yaquina) Life Cycle Monitoring site as a new predictor of marine survival for wild adult coho salmon for use in 2013 management. Approval was provisional, pending further analysis to address SSC recommendations regarding the new predictor and mitigate possible risks from reliance on a single site for predicting marine survival.

An ensemble mean forecast was developed using seven two-variable generalized additive models that incorporate additional biological and oceanographic indicators to predict marine survival. These models are very similar to the preseason models currently used to forecast OCN abundance. The ensemble mean forecast improved performance compared to the 2012 revision relying solely on the Mill Creek jack-to-smolt ratio. The proposed predictor is more robust to a change in any single indicator, and it appropriately limits impact rates when survival is expected to be low but allows harvest opportunity when it is expected to be high.

Three of the seven ensemble models rely on jack-to-smolt ratio data from the Mill Creek. To address concerns about alternative methods for predicting marine survival if there were a catastrophic failure at the Mill Creek site that prevented estimation of the jack-to-smolt ratio, a suite of three-variable environmental models was developed. An ensemble mean of six three-variable models was shown to perform nearly as well as the two-variable ensemble mean described above and was superior to the model relying on the Oregon Production Index Hatchery predictor.
The SSC recommends that the two-variable ensemble mean model be used to predict marine survival for use in the OCN coho salmon harvest matrix. In the event that jack-to-smolt ratio data from Mill Creek are unavailable, the three-variable ensemble mean model should be used. Every year the models should be refit incorporating the most recent data. Variable selection may change over time, and should be reviewed in five years, or when it becomes clear that some models are no longer well-supported statistically.

**Lower Columbia Natural (LCN) Coho matrix control rule**

Mr. Chris Kern (Oregon Department of Fish and Wildlife) made a presentation to the SSC which included two new analyses suggested at the subcommittee meeting (Addendum to C.2.a, Attachment 2). The primary purpose of the analysis was to incorporate new information from eight populations, in addition to the Clackamas and Sandy populations, into the framework for evaluating alternative harvest management matrices for LCN coho.

Spawner-recruit functions and full seeding levels were developed for all populations. Methods varied depending on available data, accounting for differences between the Washington and Oregon recovery plans. Relative risk and opportunity for a range of harvest strategies and harvest matrices was evaluated using a stochastic population viability analysis (PVA).

One strength of the proposed analysis framework is that it characterizes the relative risk from alternative harvest scenarios to the entire LCN coho evolutionarily significant unit, rather than simply the two healthiest populations (the Sandy and Clackamas). The SSC recommends using the shorter 1993 to 2009 data sets for the Sandy and Clackamas populations.

The SSC evaluated the data reconstruction techniques used and technical aspects of the PVA. We did not evaluate any specific scenarios. The analysis framework is suitable for ranking the relative risk of various harvest scenarios. Numerical estimates of extinction risk from the model should be considered as index values only, and in no way represent actual probabilities of extinction. The analysis is complex, and the SSC identified several areas where alternative analytical techniques could be applied. However, the basic technique and application are sound, and relative rankings of scenarios are not likely to be greatly affected by the statistical refinements suggested. The populations used in the analysis do not exactly match those in the Fishery Regulation and Assessment Model (FRAM) model. These differences will need to be reconciled before a resulting harvest strategy can be applied.

Continued monitoring of LCN coho populations should help refine capacity and productivity estimates for Oregon populations and allow for empirical estimates for Washington populations. Investigation of alternative metrics to better represent marine survival of LCN coho, similar to approaches used for the OCN coho harvest matrix, should also be examined.

**Incorporation of estimated legal and sublegal Chinook encounters into the Fishery Regulation and Assessment Model (FRAM)**

Ms. Angelica Hagen-Breaux (Washington Department of Fish and Wildlife) presented this analysis to the SSC. Recent Chinook FRAM projections of total sublegal encounters for
fisheries operating under minimum size limit regulations differ substantially from recent field observations for many fisheries. While the basis for differences is not understood, FRAM’s current structure allows for *ad hoc* calibration of base period sublegal encounter rates through the use of a simple multiplicative adjustment factor, thereby providing users the ability to improve correspondence between model-projected sublegal encounters and sublegal encounter estimates based on data from sampled fisheries.

A comprehensive set of available sample-based estimates of sublegal Chinook encounters for a range of modeled fisheries was used to develop and test a set of simple computational algorithms to incorporate these data directly into FRAM modeling (i.e., to estimate the necessary adjustment factors for the model). The effect of the proposed changes on key model outputs (e.g., exploitation rates on stocks of conservation concern) was evaluated. Overall, recalibrating FRAM’s current base period to produce fishery-level sublegal encounter totals consistent with recent data introduced minimal changes when assessed in terms of stock-specific impacts even though changes in sublegal encounter totals were substantial for some individual fisheries.

The proposed change to FRAM modeling of sublegal encounters: (1) improves fishery-level projections of total sublegal encounters; (2) strengthens the link between ongoing monitoring activities and fishery modeling; (3) minimally changes past assessments of stock-level impacts; and (4) establishes a foundation for improved size-limit modeling.

The SSC noted that the von Bertalanffy method currently used to estimate growth within a year may not be appropriate and may contribute to poor model performance in this area. Future model revisions could address this issue. Recent size-at-age data are most relevant to current fisheries. The SSC recommends that data be updated annually and older data that may not represent current conditions be dropped from the time series as appropriate.

The SSC recommends the incorporation of the revised sublegal encounter estimates in the FRAM model for 2014.

**Modifications to Fishery Regulation and Assessment Model (FRAM) algorithms on sublegal and legal encounters and minimum size limits**

Ms. Angelika Hagen-Breaux (Washington Department of Fish and Wildlife) gave a presentation to the SSC on a proposed change to Chinook FRAM which would allow evaluation of proposed size limit changes to FRAM fisheries. Chinook FRAM was originally designed to evaluate changes in fishery catches and stock impacts resulting from changes in minimum size limit regulations. Recent attempts to use this feature revealed the FRAM methodology and supporting data to be flawed.

At the 2012 Salmon Methodology Review, the Washington Department of Fish and Wildlife presented a method to address this size limit problem. Several issues were raised by the SSC at the 2012 review. The SSC recommended not to adopt the changes presented in 2012.

For the October 2013 Salmon Methodology Review, an improved method to estimate sublegal encounters in FRAM was suggested (see previous discussion item). Using updated sublegal
encounter rates reduces the exploitation rate changes calculated for key stocks. Because encounters would be calibrated to recent-year observations under the proposed approach, those fisheries that experienced size limit changes since the base period would no longer need to be adjusted; only recent size limit changes would need to be modeled. In addition, the adjustment algorithm was modified to keep total encounters constant.

While this method addresses a known FRAM problem in evaluating proposed changes to fishery size limits, it does not address the problem of FRAM incorrectly allocating sublegal impacts to stocks and age groups. This problem would be addressed by the work currently being done to develop and implement a new Chinook FRAM base period including revisions to the model code dealing with growth.

The SSC recommends incorporating this method in FRAM modeling for 2014. This would be an interim measure until a new Chinook FRAM base period, model code revision, and model calibration allows incorporation of new growth and size limit algorithms.

Alternative forecast methodologies for the Sacramento Fall Chinook Index

Dr. Mike O’Farrell (National Marine Fisheries Service, Southwest Fishery Science Center) presented an analysis of alternative forecast methodologies for the Sacramento Fall Chinook Index (SI) to the SSC. The analysis compared the performance of a variety of potential forecast models for the SI. Models included simple averages, jack to SI regressions with multiple lags, time series models based on autocorrelated error or smooth changes in the jack relationship, and regressions including environmental variables. Models were fitted with data from 1983, in contrast to the shorter time series currently in use. Models were evaluated statistically, and examined for their ability to track recent trends in the SI that have proven challenging to forecast.

Most models out-performed the current model based on “leave one out” and “one year ahead” cross-validation techniques. Some environmental models performed well, but the environmental factors that contributed to the forecast tended to change over time, leading to the conclusion that variable selection in these models was inherently unstable. The authors identified a simple autoregressive error model relating jacks to SI as the most parsimonious and robust alternative. This model allowed for temporal changes in the expected ratio of the SI to the number of jacks the previous year through autocorrelation in residual errors. The performance gains compared with the current model are modest when error is calculated across all years, but the model structure should reduce the risk of extended periods of over- or under-predictions.

The SSC recommends use of the proposed “Model 8” for forecasting the SI in 2014.

E. Coastal Pelagic Species Management

2. Exempted Fishing Permit (EFP) for 2014 Notice of Intent

The Scientific and Statistical Committee (SSC) reviewed the notice of intent to conduct another
Pacific Northwest aerial sardine survey under the Council’s exempted fishing permit process. No written report on the 2013 Northwest Aerial Sardine Survey was provided to the SSC. Due to extensive fog, the 2013 survey was unable to proceed as planned, and returned half of the 3,000 ton harvest quantity originally allocated for the survey. The SSC expects to see a full report of the 2013 survey at our March 2014 Pacific Council meeting, and we will provide a more detailed review then. A broader review of this survey approach should be conducted next year, perhaps in conjunction with a review of the southern California survey.

3. Establish Maximum Sustainable Yield (MSY) Reference Point for Northern Anchovy

No new scientific information relevant to establishing an maximum sustainable yield (MSY) for the northern subpopulation of northern anchovy is available, and so the Scientific and Statistical Committee (SSC) reiterates its recommendation from November 2010 that $F_{MSY}=0.3$. This is the default exploitation rate for Pacific mackerel, and is deemed appropriate because northern anchovy are likely to be at least as productive as Pacific mackerel, and likely have higher natural mortality, which would typically be associated with a higher $F_{MSY}$. The SSC notes that when used in the context of coastal pelagic species (CPS) management, $F_{MSY}$ is an annual exploitation rate rather than an instantaneous fishing mortality rate.

Reference points for monitored CPS stocks such as the northern subpopulation of northern anchovy are difficult to determine due to limited data to estimate biomass and productivity. This subpopulation is currently lightly fished, with inconsistent effort, making the time series of catch an unreliable indicator of stock status. Due to both high uncertainty and large fluctuations in stock biomass, a fixed biomass-based or catch-based MSY is not meaningful.

$F_{MSY}$ should be revisited if new information on productivity becomes available.


Mr. Kirk Lynn (CDFW) provided the Scientific and Statistical Committee (SSC) with an overview of the aerial survey for Pacific sardine in the Southern California Bight. This survey is a partnership between the CDFW and the California Wetfish Processors Association. The survey involves a series of transects during which an observer visually estimates the tonnage and number of schools on each transect and photographs are taken throughout the transect. The tonnage of fish estimated for the Bight could be used to create a relative index of abundance for use in assessments. The data collected on species composition of schools could be validated using samples collected using jigging. That sampling could also be used to provide biological information on the size composition of fish schools.

The SSC identified several technical issues that would be discussed during a review of this aerial survey and relayed them to the proponents. Addressing some of these issues will require the collection of additional data. The proponents of the survey should consider whether it will be possible to sufficiently address these issues by the time of a review. A review of the California Bight survey could potentially occur during Spring 2014 at the earliest, ideally in conjunction with a review of the acoustic-trawl survey or the aerial survey in the Pacific Northwest.
The SSC reviewed the draft Council Operating Procedure (COP) 24. The COP should make clear the link with the Terms of Reference developed for conducting methodology reviews for groundfish and Coastal Pelagic Species. In addition, it should be made clear that the TOR referred to on page 2 of the COP pertains to the technical aspects of the specific methodology being reviewed.

5. Pacific Sardine Stock Assessment and Management for 2014, Including Tribal Set-Aside

The Scientific and Statistical Committee (SSC) heard a presentation from Dr. Kevin Hill on the new Pacific sardine biomass projection. No new survey data are included in the projection model; however, catch data that were previously included as preliminary estimates are now incorporated as actual values for the second semester of 2011 and the first and second semesters of 2012. The additional data enabled estimation of 2012 year class recruitment, which was below the historical average.

The harvest guideline (29,770 mt) has decreased from the previous assessment, resulting from a declining trend in biomass, coupled with a change in timing of the biomass estimate from the middle to the end of the year.

The SSC endorses the overfishing limit for the calendar year 2014 (59,214 mt) which will be updated (superseded) by a new assessment scheduled to be reviewed in March 2014. The new assessment will incorporate updated fishery composition data for the US, and new survey data, including 1) a spring 2013 daily egg production method (DEPM) estimate, and 2) spring and summer 2013 acoustic-trawl survey (ATM) estimates. Based on preliminary survey reports, a continued decline is expected.

The SSC recommends keeping the stock at category 1 for the purpose of deriving the acceptable biological catch (ABC). The SSC also notes that a continuing shortcoming of the Stock Synthesis model (no coefficient of variation of summary biomass) should be addressed. This information is routinely needed to derive the P* buffer, and would greatly aid calculation of ABCs going forward.

H. Groundfish Management

7. Essential Fish Habitat (EFH) Review Phase 2 Report and Proposals to Modify EFH

The Scientific and Statistical Committee (SSC) reviewed the draft Phase 2 report from the Essential Fish Habitat Review Committee (EFHRC) (Agenda Item H.7.b, Supplemental Attachment 1). Mr. Kerry Griffin briefed the SSC on the report and was available to answer questions.

The SSC notes that the EFHRC’s Phase 1 report (presented to the Council in September 2012) and the subsequent Synthesis Report developed by NMFS (presented to the Council in April 2013) indicate the availability of extensive amounts of new information relevant to groundfish essential fish habitat (EFH). Should the Council decide to proceed with Phase 3, it would greatly facilitate the process, especially the analysis of alternatives, if the Council evaluated the
effectiveness of the current EFH designations and conservation areas relative to meeting its objectives. Without such an evaluation it may be difficult to gauge whether proposed changes to EFH are likely to be improvements.

5. Approve Stock Assessments and Cowcod Rebuilding Analysis

**Data-moderate Stock Assessments**
The Scientific and Statistical Committee (SSC) reviewed the results of revised stock assessments for brown, China, and copper rockfish conducted by Dr. E.J. Dick (SWFSC). The revised assessments considered alternative spatial stratifications and included a revised catch time series from the Oregon Recreational Boat Survey (ORBS). The revised assessments for all three species showed very minor differences in spawning biomass trajectories under the alternative spatial stratifications. In cases where assessment boundaries do not align with management boundaries, the overfishing limit (OFL) should be apportioned based on historical catch data.

For brown rockfish, the Stock Assessment Review (STAR) Panel approved a coastwide model. A revised model was presented for California only. The SSC concluded that insufficient data were available to assess the area north of California separately and recommends using the original STAR Panel-approved coastwide model to obtain the OFL. Any spatial allocations of the coastwide OFL should be done using historical catch proportions by area.

For China rockfish, the STAR Panel approved two models (northern and southern) split at 40°10’ N. lat. A revised stratification was presented with the northern-southern split moved to 42° N. lat. The SSC finds no scientific basis to recommend choosing between these two alternatives. The models used to provide the OFL should reflect the management boundaries selected by the Council.

For copper rockfish, the STAR Panel approved two models; one for south of Point Conception and another covering the area from Point Conception to the U.S-Canada border. A revised stratification was presented for the area north of Point Conception, yielding two models with a split at 42° N. lat. Based on an evaluation of model diagnostics, the SSC does not have confidence in the results of the Oregon-Washington model. The SSC recommends using the STAR Panel-approved models and applying historical catch data to apportion the OFL, either at 40°10’ N. lat., or at 42° N. lat.

The SSC discussed how requests for changes in stock assessment boundaries late in the process could be avoided in the future, since these requests were disruptive in this year’s stock assessment process. Issues concerning stock boundaries should be addressed early in the stock assessment process. One possibility is to strengthen the recommendations in the Stock Assessment Terms of Reference for the stock assessment team (STAT) to consult early in the process with the GMT and fisheries managers about spatial management issues associated with the stock being assessed. The SSC emphasizes that biological and scientific considerations must take precedence in developing stock assessments.

**Cowcod Rebuilding Analysis**
The SSC reviewed a draft rebuilding analysis for cowcod (Agenda Item H.5.a., Supplemental
Attachment 2), based upon the 2013 assessment. Progress towards rebuilding was reviewed in relation to the current median time to rebuild ($T_{\text{TARGET}}$) for cowcod of 2068. The current spawners per recruit (SPR) harvest rate ($F_{82.7\%}$) implies that the stock will rebuild by 2020 with a 50 percent probability, so rebuilding is ahead of schedule. The catches of cowcod have been lower than the cumulative annual catch limit (ACL) during the period of rebuilding. The SSC concludes that progress towards rebuilding is ahead of schedule.

The rebuilding analysis for cowcod was conducted using Extended Depletion-Based Stock Reduction Analysis (XDB-SRA) rather than the rebuilding software used for assessments conducted in Stock Synthesis (i.e., the Puntalyzer). There was limited time to conduct all the required model runs, and thus the analyses shown to the SSC were preliminary. However, successful runs providing projections of zero catch, catch given the current ACL, and catch under the current SPR rate (Runs 1-3) may provide sufficient basis for Council decision-making. The run needed for the SSC to set an OFL was not available to the SSC. The rebuilding analysis will be completed in time for an SSC Groundfish Subcommittee call in late 2013. Any requests for additional model runs (besides the appropriate OFL run) should be communicated to the STAT.

3. **Sablefish Permit Stacking Program Review Scoping**

Mr. Jim Seger (PFMC) briefed the Scientific and Statistical Committee (SSC) regarding the preliminary plans for the sablefish permit stacking program review. The SSC discussion focused on highlighting priority indicators for several of the objectives described in Agenda Item H.3.a, Attachment 3. The list of priority indicators recommended for objectives 1-3 follows.

1. **Objective 1 – Rationalize the fleet and promote efficiency**
   a. Season length and average fishing days by year
   b. Table 1 as currently defined
   c. Table 1 information for before and after program implementation, not aggregated by tier ownership
   d. Permit price for available years.

2. **Objective 2 – Maintain or direct benefits toward fishing communities**
   a. Port involvement and dependence ratio
   b. Proportion of fixed gear allocation harvested by year
   c. Percent of landings by owner on board versus non-owner on board vessels

3. **Objective 3 – Prevent excessive concentration of harvest privileges**
   a. Graph of ownership concentration
   b. Gini coefficients for ownership concentration
   c. Graph of control concentration
   d. Gini coefficients for control concentration

6. **Biennial Harvest Specifications for 2015-2016 Groundfish Fisheries**
Estimating OFL for Species in the “Other Fish” Complex

The SSC reviewed Agenda Item H.6.a, Supplemental Attachment 6 that describes a procedure for calculating overfishing limits (OFLs) for some species for which OFLs were requested. The method applies F_{MSY} harvest rate proxies to estimates of stock biomass from the NWFSC West Coast Bottom Trawl Survey. This method was used during the previous biennial harvest specification cycle to provide OFLs for big skate, California skate, ratfish, and Pacific grenadier. The SSC endorses the approach, but notes that the method makes the strong assumption that the survey catchability coefficient is 1.0 and likely results in a conservative OFL for species such as grenadier whose geographic range extends into depths beyond the survey area. Also, the OFLs for these species should be updated as additional survey data become available.

OFLs for Kelp Greenling and Cabezon

There are no OFLs for kelp greenling off Oregon and Washington or for cabezon off Washington in the current table of proposed OFLs (Agenda Item H.6.a, Attachment 1). It may be possible to develop DB-SRA estimates for these stocks. The SSC was informed that (time permitting) Dr. E.J. Dick would: (a) assemble the needed catch history data; (b) send it to agency staff in Oregon and Washington to confirm the acceptability of the catch histories; and then (c) derive the DB-SRA estimates by early December 2013. However, his top priority would be to complete the rebuilding analysis for cowcod. The SSC will review the DB-SRA estimates of OFLs for these species during a conference call that will be scheduled for December.

Category Designation for the Rougheye / Blackspotted Rockfish Assessment

The SSC revisited the decision that was made at the September meeting to designate the new stock assessment for rougheye rockfish as a category 1 assessment. Given that the assessment is for a complex of two species (rougheye and blackspotted rockfish) and given that there is insufficient information available to confirm that these species have similar vulnerability to the fishery and rates of biological productivity, the SSC recommends that the assessment be classified as a category 2 assessment. Both the ABCs and decision table will be updated to reflect this change.

OFLs for Canary Rockfish

The OFLs for canary rockfish originally included in the September briefing book were not endorsed by the SSC in its September statement because of concerns that they may have been incorrect (Agenda Item G.7.b, Supplemental SSC Report, September 2013). Subsequent investigation of the calculations found that the values originally presented in the September briefing book are correct and the SSC recommends these values.

OFLs for Cowcod

The OFL for cowcod in the Conception area will be derived from the completed rebuilding analysis. The OFL for the Monterey area will be derived from an application of DB-SRA using a distribution for depletion for cowcod in the Conception area as a prior to estimate the OFL. These OFL decisions will be a part of the SSC Groundfish Subcommittee conference call discussions planned for December.
**OFL Recommendations**

The SSC recommends the OFLs and assessment category assignments that are presented in the revised table of harvest specifications for 2015 and 2016 (Agenda Item H.6.a, Supplemental Attachment 7). The OFLs for brown, China and copper rockfish will be determined by the Council’s decision regarding the management boundaries. The table includes some species that are not currently included in the FMP but are under consideration with regard to revisions to the stock complexes (e.g., Aleutian skate).

**Ecosystem Considerations in Tier 1 Environmental Impact Statement**

The SSC discussed the findings of the SSC’s Ecosystem-Based Fishery Management Subcommittee (SSC-ES), which met on October 30 with members of the California Current Integrated Ecosystem Assessment Team and the Groundfish Management Team, to discuss the use of ecosystem models to inform the Tier 1 Environmental Impact Statement (EIS) (see attached). The Atlantis model was deemed the only ecosystem model currently capable of contributing to the Tier 1 EIS. Atlantis covers the area from Point Conception to Cape Flattery and thus excludes the Southern California Bight. The model can be used to evaluate ecosystem effects associated with harvest but not the effects of fishing on habitat. Some groundfish stocks are modeled individually while others are grouped into larger functional groups. Three west coast applications of Atlantis have been published in the peer-reviewed literature.

The SSC recommends that published findings from Atlantis regarding ecosystem effects of groundfish harvest be considered for their relevance to the Tier 1 EIS. Atlantis should also be used directly in the Tier 1 EIS to evaluate the ecosystem effects of a limited number of catch projections representing low and high states of nature. Because ecosystem effects may not be fully realized until after the 10-year Tier 1 projection period, the SSC recommends that Atlantis extend the catch projections for at least another 20 years based on the fishing mortality rates experienced in the tenth year of the projection period. The SSC requests that the Atlantis modelers consult informally with the SSC-ES this winter regarding the types of ecosystem indicators that they anticipate providing for the Tier 1 analysis.

The use of Atlantis in the Tier 1 EIS represents a first exploratory use of ecosystem models for Council decision making. Atlantis outputs should be interpreted qualitatively rather than quantitatively. Although Atlantis is also capable of evaluating economic and social effects, in the interest of time and pending further review of the model, the SSC recommends that its use for this Tier 1 analysis be limited to ecosystem effects. The SSC recommends a thorough review of Atlantis to more fully understand its capabilities and limitations. Dr. Isaac Kaplan (NWFSC) is expected to complete the documentation needed for such a review by June 2014. Results of the review would not be available in time to inform the Tier 1 analysis but could be useful for future specifications cycles.
The SSC Ecosystem-Based Management Subcommittee met on October 30 with members of the NOAA California Current IEA Team (Drs. Phil Levin and Isaac Kaplan of the NWFSC, Drs. John Field and Brian Wells of the SWFSC), Mr. John DeVore, and Messrs. Corey Niles and Dan Erickson (Groundfish Management Team) to discuss the general analytical approach to be used in the Tier 1 Environmental Impact Statement (EIS) and the potential ecosystem effects that could be incorporated into that analysis.

The Tier 1 EIS is being prepared as part of the 2015-2016 harvest specifications process to help alleviate the arduous analytical and procedural workload that currently occurs in each biennial cycle. The Tier 1 EIS will analyze the effects of a range of plausible catch streams over the next 10 years, although ecosystem impacts may be assessed over longer timeframes. Beginning in 2017-2018, catch alternatives that fall within this range could be evaluated by reference to the Tier 1 analysis. The Tier 1 EIS could be modified before the end of the 10-year period, should new information become available that substantively changes the catch projections or the data and methods used to analyze the effects of those projections. The Subcommittee supports the general approach being proposed for the Tier 1 EIS.

Dr. Isaac Kaplan provided a summary of existing ecosystem models which could potentially inform future Council actions, and outlined features of the Atlantis model. The Subcommittee then considered these presentations in the context of the needs for the Tier 1 EIS analysis. Apart from the Atlantis model, there are four models which have been applied to the US West Coast:

- The Ecosim model of the California Current was originally developed by Dr. John Field. This model covers the US West Coast north of Point Conception, and represents 63 functional groups, including 17 groundfish species. This model, unlike Atlantis, is not spatially-structured, but could form the basis for an evaluation of the impacts of future catch series on ecosystem characteristics. A concern with this model is that it was parameterized in the early 2000s. Substantial changes to our understanding of the biomass and dynamics of species off the West Coast have occurred since then. Although work is underway to update the model, a reparameterized model will not be available in time for the Tier 1 EIS analysis.
- EcoTran is a model for Oregon which includes more than 80 functional groups, and focuses on lower trophic level processes. Like Ecosim, EcoTran is non-spatial. However, it does account for uncertainty due to parameterization and input data. This model is not currently set up to conduct projections so is not suitable for a Tier 1 EIS analysis.
- ROMS-COSINE is a model which can be used to represent benthic habitat based on physical features. This model could provide input for other models. However, as it does not currently include groundfish, it is not suitable for a Tier 1 EIS analysis.
- NEMURO-SAN is a fine-scale model which represents the dynamics of the lower trophic levels. However, it currently focuses on the coastal pelagic food web, and only includes two fish species making it unsuitable as the basis for Tier 1 EIS analysis.

These models each include features which may be useful as the Council moves forward to take ecosystem considerations into account. However, none of these models is immediately useful
nor could they be suitably modified in time for use in the Tier 1 EIS analysis. In contrast, the Atlantis model for the West Coast has been developed specifically to conduct evaluations of fisheries management policy. Atlantis is capable of representing multiple trophic levels spatially and includes modules which allow fisheries and fisheries management actions to be modeled. Atlantis can be used to obtain a better understanding of fisheries, management systems, social and economic behavior and climate impacts on entire ecosystems. The model has been implemented for a number of ecosystems worldwide. Three implementations for the west coast of North America and one for Northeast U.S. have been published in the peer-reviewed literature.

The Atlantis model for the U.S. West Coast covers the region from Cape Flattery to Point Conception and models 51 biological functional groups, including 21 fish groups. It can allow for multiple fisheries and a variety of management controls. The Atlantis model is best suited of the models reviewed for conducting analyses for the Tier 1 EIS. The Subcommittee recommends that the Atlantis model be incorporated into the Tier 1 EIS by discussing the results of published research using the Atlantis model, and by a limited set of model runs that evaluate the ecosystem impact of catch projections from single species models. The SSC EBFM subcommittee has the following recommendations in relation to the analyses for evaluating the impact of catch streams on ecosystem characteristics.

- The results should be reported largely qualitatively (for example as changes which are near zero, small and negative, large and negative) and the focus should be on between-scenario variation in results rather than the results as predictions of the future.
- The focus for the evaluation should be on ecosystem impacts even though Atlantis can provide social and economic outputs, due to the added workload of providing these latter outputs and the short time frame for completing the Atlantis runs. Social and economic effects will be included as usual in the biennial specifications analysis.
- Atlantis is not designed to evaluate fisheries impacts on habitat; other analytical methods would be needed to evaluate those impacts in the Tier 1 EIS.
- Analysts should consult with Council Advisory Groups including the SSC to ensure the set of model outputs reflect Council issues and concerns.
- The number of scenarios should be kept to a minimum. Atlantis can implement the control rules used for managing West Coast species, or can be run with a pre-specified series of catches. However, the control rule option has not been tested for the West Coast. It would therefore be advisable to run the model for pre-specified series of catches.
- The impacts on the ecosystem may only occur well after ten years. Projections should therefore be undertaken in which the catches for the first ten years of the projection period are based on the catch streams reported in decision tables and the catches for the eleventh and subsequent years determined by setting the fishing mortality by species equal to that for the tenth year of the projection period.
- Catches should be assigned spatially rather than using a model of fleet dynamics under catch shares.
- The number of catch scenarios should be minimized, for example by creating a “high” catch scenario in which the catches by species are set to those for high state of nature and a high P*, and another “low” catch scenario in which the catches by species are set to
those for low state of nature and a low \( P^* \). If the results are qualitatively the same for these two scenarios, there is confidence that they will be robust across a range of future catch series.

- Atlantis requires the specification of spatial closure scenarios. Projections should be conducted for existing spatial closures and the extreme scenario of no spatial closures.

The results from ecosystem models are often sensitive to their specifications. Ideally therefore, projections should be conducted for as many ecosystem models as is possible to assess which results are consistent across ecosystem models. The only alternative model which is sufficiently well developed to allow robustness of results to be evaluated is the Ecosim model. However, this model would need to be updated before it could be used for comparative studies, and it is unlikely that this will be possible before March 2014.

The Subcommittee recommends that a full review of the Atlantis model be conducted. This will not be possible before the March 2014 Council meeting when results are needed to support the Tier 1 EIS. This review could be organized by the NWFSC, or under the existing Council process for methodology reviews. The SSC and CIE experts could be involved in the review irrespective of how it is undertaken. However, a Council-sponsored review would allow for more involvement of the public as well as Council Advisory Bodies, and would foster a better understanding of the appropriate use of ecosystem models in the Council process.
SSC Notes:

- Prior to the next biennial specification cycle there should be exploration of fitting random-effects models to the survey data as a refinement to the current approach for estimating OFLs from survey biomass estimates.

- Prior to the next stock assessment cycle, we should modify the Terms of Reference for stock assessments and establish the rule that any assessment of a complex of species cannot be designated as a category 1 assessment unless there is good evidence that the component species have very similar life-history characteristics and similar rates of biological productivity.

- Need to examine different approaches for apportioning OFLs to stocks that have geographic boundaries that differ from the assessment boundaries.

- In relation to the cowcod rebuilding analysis:
  - The next Rebuilding Analysis should allow for implementation error.
  - The final version of the document needs to finalize the calculation of $T_{MIN}$, the projections for runs 3+ and the calculation of the probabilities of rebuilding by various years.
  - Projections should be conducted based on sequences of catches as well as of fishing mortality.

8. Electronic Monitoring Alternatives

The Scientific and Statistical Committee (SSC) reviewed the draft set of alternatives developed by Council staff for integrating electronic monitoring (EM) into the trawl catch share program’s compliance monitoring (Agenda Item H.8.a, Attachment 1). The Groundfish Electronic Monitoring Policy Advisory Committee (GEMPAC) and the Groundfish Electronic Monitoring Technical Advisory Committee (GEMTAC) met in October to review the draft alternatives. Mr. Brett Wiedoff briefed the SSC on the report from this meeting (Agenda Item H.8.b, Supplemental GEMPC Report).

The alternatives identified under the five policy topics are reasonable. However, the SSC notes that the objectives of using EM as a compliance monitoring tool are not clearly defined, which makes risk analysis challenging. The SSC did not receive updates on the current pilot study conducted by the Pacific States Marine Fisheries Commission; therefore, the SSC is unable to provide any feedback. The SSC expects to see a detailed study design that addresses the management measures identified in the alternatives. Also, in order to provide scientific guidance for future analyses, such as video sampling rate and cost analysis, the SSC encourages the collection of information from a variety of vessels and from existing EM programs, such as British Columbia’s program.
I. Council Administrative Matters

6 Future Council Meeting Agenda and Workload Planning

The Scientific and Statistical Committee (SSC) discussed the meeting schedule for 2014. The SSC suggests that the meeting dates of two currently scheduled meetings for 2014 be adjusted slightly. The SSC suggests that its March meeting be expanded from two days to three days (March 7 to 9) with the first day devoted to a review of the Integrated Ecosystem Assessment (IEA) State of the Ecosystem Report. This would necessitate that the Pacific sardine Stock Assessment Review (STAR) Panel be shifted one day earlier and occur from March 3 to 6.

The Economic Subcommittee will be meeting with the GMT to discuss the socioeconomic models to be used in future specification processes. The plan is to schedule this meeting in association with one of the 2014 Council meetings.

The groundfish historical catch reconstruction workshop will likely occur sometime in late 2014. Timing of this workshop will depend on the progress made by Washington.

The SSC recommends a Council-sponsored full review of the Atlantis model. This would allow involvement of the public as well as Council Advisory Bodies, and would facilitate a better understanding of the appropriate use of ecosystem models in the Council process. Review of the Atlantis model would likely occur in June 2014 at the earliest.

The NWFSC will take the lead on the workshop for methods of data reweighting. Dr. Chris Francis will possibly be in the country during the first half of 2014 and, as a leading expert on this topic, his participation in this workshop would be extremely beneficial.

A potential CPS survey methodology review was discussed but the schedule for this review cannot be set at this time as it requires input from the two proponents of the surveys (Pacific Northwest and California aerial). The SSC recommends this be a Council-sponsored review.

A Groundfish Subcommittee conference call to finalize overfishing limits (OFLs) and harvest specifications for 2014 will be scheduled for some time in December. This would also include the evaluation of the completed cowcod rebuilding analysis. The exact dates will be set after a poll of potential participants is conducted.

The following tables are provided to assist the Scientific and Statistical Committee to plan meetings and workshops that involve SSC participation. The meetings and workshops are based on the Council’s 2014 meeting schedule and off-year science improvements decided by the Council in September 2013.
### DRAFT Tentative Council and SSC Meeting Dates for 2014

<table>
<thead>
<tr>
<th>Council Meeting Dates</th>
<th>Location</th>
<th>Likely SSC Mtg Dates</th>
<th>Major Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>March 8-13, 2014</strong></td>
<td><strong>DoubleTree by Hilton Hotel Sacramento</strong></td>
<td>Three Day SSC Session</td>
<td>IEA annual report</td>
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<tr>
<td>Advisory Bodies may begin</td>
<td>2001 Point West Way</td>
<td>Fri, March 7 – Sun,</td>
<td>Final CPS EFP</td>
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<tr>
<td>Fri, March 7</td>
<td>Sacramento, CA 95815</td>
<td>March 9</td>
<td>Sardine harvest param. Review</td>
</tr>
<tr>
<td>Council Session begins</td>
<td>Phone: 916-929-8855</td>
<td></td>
<td>Groundfish methodology review</td>
</tr>
<tr>
<td>Sat, March 8</td>
<td></td>
<td></td>
<td>Groundfish 2015-16 spex</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Rockfish barotrauma mort. rates</td>
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<td>Salmon review/Pre I</td>
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<td></td>
<td>CA current &amp; IEA reports</td>
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<tr>
<td></td>
<td><strong>Hilton Vancouver Washington</strong></td>
<td>Two Day SSC Session</td>
<td>Pacific sardine assess.</td>
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<td>Advisory Bodies may begin</td>
<td>301 W. Sixth Street</td>
<td>Fri, April 4 – Sat,</td>
<td>Groundfish 2015-16 spex</td>
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<tr>
<td>Fri, Apr 4</td>
<td>Vancouver, WA 98660 USA</td>
<td>April 5</td>
<td>Groundfish electronic monitoring</td>
</tr>
<tr>
<td>Council Session begins</td>
<td>Phone: 360-993-4500</td>
<td></td>
<td>Salmon methodology topic selection</td>
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<tr>
<td>Sat, Apr 5</td>
<td></td>
<td></td>
<td>Mackerel HG &amp; mgt. measures</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Pacific sardine methodology review</td>
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<tr>
<td><strong>June 20-25, 2014</strong></td>
<td><strong>Hyatt Regency Orange County</strong></td>
<td>Two Day SSC Session</td>
<td>Groundfish 2015-16 spex</td>
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<td>Advisory Bodies may begin</td>
<td>11999 Harbor Blvd.</td>
<td>Thu, June 19 – Fri,</td>
<td>Prelim. groundfish stock assess. plan &amp; ToRs</td>
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<td>Thu, June 19</td>
<td>Garden Grove, CA 92840</td>
<td>June 20</td>
<td>Groundfish electronic monitoring</td>
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<td>Council Session begins</td>
<td>Phone: 714-750-1234</td>
<td></td>
<td>HMS mgt. measures, SDC, and ref. pts.</td>
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<tr>
<td>Fri, June 20</td>
<td></td>
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<td>Plan science improvements</td>
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<td>Salmon methodology topic priorities</td>
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<td>Final groundfish stock assess. plan &amp; ToRs</td>
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<td>Groundfish EFH amendment</td>
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<td>Halibut bycatch estimate</td>
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<tr>
<td><strong>September 12-17, 2014</strong></td>
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<td>322 N. Spokane Falls Court</td>
<td>Thu, Sept 11 – Fri</td>
<td>Salmon methodology review</td>
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<td>Final groundfish stock assess. plan &amp; ToRs</td>
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<td>Fri, Sept 12</td>
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<td>Groundfish EFH amendment</td>
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<td>Halibut bycatch estimate</td>
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<td><strong>November 14-19, 2014</strong></td>
<td><strong>Hilton Orange County/Costa Mesa</strong></td>
<td>Two Day SSC Session</td>
<td>Prelim. CPS EFP</td>
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<td>Advisory Bodies may begin</td>
<td>3050 Bristol Street</td>
<td>Thu, Nov 13 – Fri,</td>
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<td>Thu, Nov 13</td>
<td>Costa Mesa, CA 92626</td>
<td>Nov 14</td>
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<tr>
<td>Council Session begins</td>
<td>Phone: 714-540-7000</td>
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<tr>
<td>Fri, Nov 14</td>
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</table>
SSC meeting dates and durations are tentative and are subject to change in response to Council meeting dates, agendas, workload, etc.

**Proposed Workshops and SSC Subcommittee Meetings for 2014**

Tentative – Depended on funding, dates subject to change

- Prep. Work Underway, Scheduled to Occur;
- Status of Supporting Analyses Uncertain, Remains a Priority;
- Setbacks exist, Questionable;
- Funding or Prep. Not Avail, likely to be canceled or postponed

<table>
<thead>
<tr>
<th>Workshop/Meeting</th>
<th>Potential Dates</th>
<th>Sponsor/ Tentative Location</th>
<th>SSC Reps.</th>
<th>Additional Reviewers</th>
<th>AB Reps.</th>
<th>Council Staff</th>
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<tbody>
<tr>
<td>1 Pacific Sardine STAR Panel</td>
<td>March 3-6</td>
<td>Council La Jolla</td>
<td>Punt, Key</td>
<td>2 CIE</td>
<td>CPSMT/ CPSAS</td>
<td>Griffin</td>
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<td>2 CPS Survey Methodology Review</td>
<td>TBD</td>
<td>Council TBD</td>
<td>CPS Subcm</td>
<td>TBD</td>
<td>CPSMT/ CPSAS</td>
<td>Griffin</td>
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<td>3 Groundfish Historical Catch Recons.</td>
<td>Late 2014</td>
<td>TBD</td>
<td>GF Subcm</td>
<td>None</td>
<td>GMT GAP</td>
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<td>4 Methods for Data Reweighting</td>
<td>TBD</td>
<td>NWFSC/ TBD</td>
<td>GF &amp; CPS Subcms</td>
<td>TBD</td>
<td>GMT GAP</td>
<td>DeVore</td>
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<td>5 Reference Points (Bzero) Workshop II</td>
<td>TBD</td>
<td>TBD</td>
<td>GF Subcm</td>
<td>CIE/External 1-3:</td>
<td>GMT GAP</td>
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<td>6 Evaluation of Stock Productivity Methodological Approaches</td>
<td>TBD</td>
<td>TBD</td>
<td>GF Subcm</td>
<td>TBD</td>
<td>GMT GAP</td>
<td>DeVore</td>
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<td>7 Review Atlantis model</td>
<td>TBD June-Dec.</td>
<td>NWFSC/ TBD</td>
<td>EBM Subcm</td>
<td>TBD</td>
<td>EAS</td>
<td>Burner</td>
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<td>8 Improving Socioeconomic Analysis</td>
<td>TBD</td>
<td>Council/ TBD</td>
<td>Econ Subcm</td>
<td>TBD</td>
<td>GMT GAP</td>
<td>DeVore, Dahl</td>
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</tbody>
</table>
### Proposed Workshops and SSC Subcommittee Meetings for 2014

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- [ ] – Prep. Work Underway, Scheduled to Occur;
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<th>AB Reps.</th>
<th>Council Staff</th>
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<tr>
<td>9 Salmon Methodology Review</td>
<td>Oct.</td>
<td>Council</td>
<td>Salmon Subcm</td>
<td>None</td>
<td>STT SAS</td>
<td>Burner</td>
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<td>10 Transboundary Groundfish Stocks</td>
<td>?</td>
<td>Council</td>
<td>2 TBD?</td>
<td>?</td>
<td>GMT GAP</td>
<td>DeVore</td>
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### SSC Subcommittee Assignments, November 2013

<table>
<thead>
<tr>
<th>Salmon</th>
<th><strong>Groundfish</strong></th>
<th><strong>Coastal Pelagic Species</strong></th>
<th><strong>Highly Migratory Species</strong></th>
<th><strong>Economics</strong></th>
<th><strong>Ecosystem-Based Management</strong></th>
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<tr>
<td>Robert Conrad</td>
<td>Vlada Gertseva</td>
<td>André Punt</td>
<td>Robert Conrad</td>
<td>Cindy Thomson</td>
<td>Martin Dorn</td>
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<td>Owen Hamel</td>
<td>Andrew Cooper</td>
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<td>Meisha Key</td>
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<td>Dan Huppert</td>
<td>André Punt</td>
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<tr>
<td>Charlie Petrosky</td>
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<td>André Punt</td>
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<td>Will Satterthwaite</td>
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<td>David Sampson</td>
<td>Will Satterthwaite</td>
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<td>David Sampson</td>
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<td>Tien-Shui Tsou</td>
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<td>Tien-Shui Tsou</td>
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</table>

**Bold** denotes Subcommittee Chairperson
MEMORANDUM

DATE: February 20, 2014

TO: Scientific and Statistical Committee

FROM: John DeVore

SUBJECT: March 2014 Council Meeting Materials

The Pacific Fishery Management Council (Council) and its advisory bodies will meet March 7-13, 2014 at the Doubletree Hotel Sacramento, 2001 Point West Way, Sacramento, California. The Scientific and Statistical Committee (SSC) will meet Friday, March 7 through Saturday, March 8 starting at 8 a.m. each day in the Capitol Salon C Room. Your meeting materials are enclosed and include informational items that are not on the SSC agenda.

SSC Administrative Matters

The SSC will elect new SSC officers for the 2014-2016 term. The election will occur during the SSC closed session.

The SSC may also revisit subcommittee assignments at this meeting.

Ecosystem Management

The Council will be briefed on the content of the California Current Integrated Ecosystem Assessment (IEA) Phase II Report. They will also be briefed on the NMFS plan for planned IEA work for 2014.

Salmon Management

The Council will review and discuss relevant fishery information and act on status determinations, 2014 abundance forecasts, and annual catch limits of Pacific salmon, as necessary.

The Council will review the Management Strategy Evaluation (MSE) and proposed harvest control rule for Sacramento Winter Chinook and provide guidance to NMFS. The SSC is tasked with reviewing the MSE and recommending to the Council whether this represents best available science.
The Council will review the California Department of Fish and Wildlife monitoring program for California Coastal Chinook and receive an update on the status of these stocks.

**Coastal Pelagic Species Management**

The Council will consider endorsing the use of the CalCOFI temperature index for use in Pacific sardine management, consider adopting a new temperature-recruit relationship for Pacific sardine, and provide guidance on potential policy changes regarding Pacific sardine harvest management. The SSC will review the science informing these proposed changes and recommend any changes to the Council regarding the best index for developing a temperature-recruitment relationship for Pacific sardine.

**Groundfish Management**

The Council will review the revised Phase 2 Report on Groundfish Essential Fish Habitat (EFH) prepared by the Council’s EFH Review Committee (EFHRC), which evaluates eight proposals received to change current groundfish EFH and provides EFHRC recommendations and guidance for Phase 3 of this process. The Council will provide guidance on the evaluation criteria and approach for considering changes to groundfish EFH, and consider finalizing the Phase 2 report.

The Council will consider adopting revised discard mortality rates for cowcod, canary rockfish, and yelloweye rockfish released in recreational fisheries with the aid of descending devices. The SSC will review a revised GMT analysis that addresses concerns raised by the SSC on this subject in April 2013.

The Council is tasked at this meeting with adopting final preferred 2015 and 2016 overfishing limits (OFLs) for those remaining stocks and complexes in which OFLs were not decided at the September and November 2013 meetings (i.e., cowcod south of 40°10’ N lat., kelp greenling in Oregon, kelp greenling in Washington, and cabezon in Washington. The SSC will review the recommendations of the Groundfish Subcommittee (developed during two webinars this winter) on these harvest specifications. The SSC will also advise the Council on recommended methods for calculating the ACL for cowcod south of 40°10’ N lat. and better articulate their recommendations on assessment model choices for China rockfish dependent on the Council’s decision on a management line.

The SSC will discuss stock assessment priorities for 2015 in preparation for the June 2014 meeting. Specifically, the NMFS Northwest Fisheries Science Center would like better guidance on whether a full or update petrale sole assessment is recommended for 2015.

Thank you all for your dedication to West Coast fishery management and the Council process. See you soon.

JDD:rdd
Enclosures include:

**Council, and SSC Administrative Matters**
1. Agenda Item A.4 – Council Meeting Agenda
2. Agenda Item J.3 – Membership Appointments and Council Operating Procedures
3. Agenda Item J.4 – Future Council Meeting Agenda and Workload Planning

**Ecosystem Management**
4. Agenda Item C.1 – California Current Ecosystem Report Including Integrated Ecosystem Assessment

**Groundfish Management**
5. Agenda Item D.2 – Essential Fish Habitat (EFH) Evaluation Criteria and Phase 2 Report
6. Agenda Item D.3 – Barotrauma Device Mortality Rates
7. Agenda Item D.5 – Biennial Harvest Specifications for 2015-2016 and Beyond Groundfish Fisheries
8. SSC Groundfish Subcommittee Statement from the Conference Call on the Review of the Cowcod Rebuilding Analysis and Overfishing Limits for Kelp Greenling and Cabezon

**Salmon Management**
10. Agenda Item F.1 – Review of 2013 Fisheries and Summary of 2014 Stock Abundance Forecasts
11. Agenda Item F.8 – Sacramento Winter Chinook Harvest Control Rule
12. Agenda Item F.9 – California Coastal Chinook Update

**Coastal Pelagic Species Management**
13. Agenda Item I.1 – Pacific Sardine Temperature Parameter Review

**SSC Agenda, Draft SSC Minutes, Closed Session, etc.**
14. March 2014 SSC Agenda
15. Draft November 2013 SSC Minutes
16. Informational Reports
17. Closed Session
18. Hotel Related Information

PFMC
02/14/14
PROPOSED AGENDA
Salmon Technical Team
Pacific Fishery Management Council
California Salon 2
Doubletree Hotel Sacramento
2001 Point West Way
Sacramento, California 95815
Telephone: 916-929-8855
March 8-12, 2014

This is a public meeting and time for public comment may be provided at the discretion of the Salmon Technical Team (STT) Chair. This is not a public hearing; it is a work session for the primary purpose of reviewing items coming before the Pacific Fishery Management Council at their concurrent meeting.

SATURDAY, MARCH 8, 2014 - 8 AM

STT Administrative Matters
Call to Order
Roll Call, Introductions, Announcements, etc. Robert Kope, Chair
Opening Remarks and Agenda Overview Mike Burner
Approve Agenda STT
Assignments to Draft Statements Chair

Council Agenda Items for Review and Possible Comment

F. Salmon Management

1. Review of 2013 Fisheries and 2014 Stock Abundance Forecasts SAS/STT
   (9 a.m. Saturday Discussion between STT and SSC; Report to the Council on Sunday - 8 a.m.)

2. Identification of Management Objectives and Preliminary Definition of 2014 Salmon Management Alternatives SAS/STT
   (Report to the Council Sunday – 9:30 a.m.)

   (Report to the Council on Sunday – 2 p.m.)

STT Administrative Matters (continued)
Review Statements
SUNDAY, MARCH 9, 2014 - 8 AM

Council Agenda Items for Review and Possible Comment

F. Salmon Management (continued)

   (Report to the Council on Monday – 8 a.m.)

MONDAY, MARCH 10, 2014 - 8 AM

STT Administrative Matters (continued)

Review Statements
Draft Preseason Report II

Council Agenda Items for Review and Possible Comment

F. Salmon Management (continued)

   (Report to the Council on Monday – 8 a.m.)

J. Council Administrative Matters

1. Magnuson-Stevens Act Reauthorization Priorities and Other Legislative Matters
   (Report to the Council on Tuesday – 1 p.m.)

TUESDAY, MARCH 11, 2014 - 8 AM

STT Administrative Matters (continued)

Review Statements
Draft Preseason Report II
Update on Lower Columbia River Natural Coho Workgroup  Mike Burner

Council Agenda Items for Review and Possible Comment

F. Salmon Management (continued)

   (Report to the Council on Wednesday – 8 a.m.)

8. Sacramento Winter Chinook Harvest Control Rule  Mike O’Farrell
   (Report to the Council on Thursday – 9:30 a.m.)

9. California Coastal Chinook Update  Mike Burner
   (Report to the Council on Thursday – 1 p.m.)
STT Administrative Matters (continued)

Review Statements

Draft Preseason Report II

Council Agenda Items for Review and Possible Comment

J. Administrative Matters

4. Future Council Meeting Agenda and Workload Planning Mike Burner

F. Salmon Management (continued)

6. Adoption of 2014 Management Alternatives for Public Review STT
   (Report to the Council on Thursday – 8 a.m.)

ADJOURN

PFMC
02/12/14