



ONCORHYNCHUS

Newsletter of the Alaska Chapter, American Fisheries Society

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A copper rockfish in an eelgrass meadow near Sitka. Eelgrass meadows are defined as a Habitat Area of Particular Concern within Essential Fish Habitat.

Alaska Chapter Annual Meeting

Today's Technology for Tomorrow's Resources

The 1999 Annual Meeting of the AFS Alaska Chapter will be in Kodiak. Registration will begin Monday evening, November 8, and the formal meeting will be November 9-11. We have reserved a block of rooms at the Kodiak Inn. We have also arranged discounted air fares with Alaska Airlines (1-800-426-0333). Mention fare designator CMR3693 for 10% discount off normal fares. Also, contact Local Arrangements Chair Jim Blackburn if you can help with meeting arrangements.

The Chapter's Annual Meeting is your opportunity to network with a wide diversity of aquatic resource professionals working in Alaska. An increasing awareness of ecological interactions of our aquatic resources is placing new demands on research and management efforts of Alaska's fisheries professionals. The expertise and diversity of individuals working with Alaska's aquatic resources provides opportunities for unique

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Alaska's Essential Fish Habitat

Cindy Hartmann

The 1996 amendments to the Magnuson-Stevens Fishery Management and Conservation Act (MSFCMA) set forth a number of new mandates for NMFS, regional fishery management councils, and other federal agencies to identify and protect important marine and anadromous fish habitat. With assistance from NMFS, the councils were required to delineate "essential fish habitat" (EFH) for all managed species. EFH is defined in the Act as "... those waters and substrate necessary to fish for spawning, breeding, feeding or growth to maturity."

Discussion of how to implement these requirements started in 1996. Technical teams and a core team were established with Council, NMFS, and state biologists and scientists in 1997. In June 1998, the Council voted to accept NMFS final EFH recommendations. Amendment language was available for final public review and comment in fall 1998.

The North Pacific Fishery Management Council's (NPFMC) five EFH amendments were approved in January 1999. These amendments identified and described EFH for five fishery management plans (FMPs), including the FMPs for the Bering Sea and Aleutian Islands (BSAI) groundfish; Gulf of Alaska (GOA) groundfish; commercial king and Tanner crab fisheries in the BSAI; scallop fisheries off Alaska; and salmon fisheries in the EEZ off the coast of Alaska. EFH was identified for over 130 species covered by these management plans.

In Alaska, EFH is defined as "all habitat within a general distribution for a species life stage, for all information levels and under all stock conditions." Within EFH, special areas, such as eelgrass meadows, were identified as Habitat Areas of Particular Concern based on environmental sensitivity, ecological importance, and rarity.

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The President's Column

Cindy Hartmann



It's been a busy quarter for the EXCOM. We submitted a nomination for the Western Division Outstanding Chapter Award, finalized the accounts from our 1998 meeting, sent out two letters from the environmental concerns committee and have a third letter in process, reconvened the Stocks at Risk Committee, and continued planning for the 1999 Chapter Annual Meeting in Kodiak.

April 30 we submitted a detailed document nominating our Chapter for the Western Division (WD) Outstanding Chapter Award. We found out on June 9 that we won! WD's EXCOM was impressed with our 17-page nomination form and 25 attachments. The required sections of the nomination form were divvied out to committee chairs and EXCOM members. Thanks to everyone for doing their part. Our nomination materials were forwarded to AFS. We should know in early July if we win the award from the parent organization.

To send in a complete nomination package, Allen Bingham, our past treasurer, went into overdrive and finalized the bookkeeping from our fall meeting. Finalizing the bookkeeping had been delayed due to discrepancies in charges and other events. I am happy to report that it was a financially successful meeting, due to contributions solicited by Chapter members and a better than anticipated attendance. We set the budget and meeting fees based on an attendance of 350 people and over 460 attended. In addition to registration fees, we received \$8,251.00 in donations. Profits were distributed between Alaska Chapter AFS, WD AFS, and Alaska Sea Grant. In May, WD was sent a check for \$13,665.61 and Alaska Sea Grant was sent a check for \$6,881.79. The Chapter EXCOM decided to fund the following programs with meeting profits: bring the Cultural Diversity CD up to \$10,000 (approximately \$3,000); sponsor the fall ANROE newsletter; and provide financial support for the Salmon Stock Status Committee and the Fish Key Committee.

The EXCOM and the Environmental Concerns Committee were active in matters regarding the environment. In April we sent letters to all state senators and representatives, and the Governor and Lieutenant Governor, opposing Senate Bill 68 and House Bill 109. We got a letter back from the Governor and Lieutenant Governor supporting our position. On April 15, we sent in comments on the Draft EA for long-term camping on the North Fork Fortymile River. An action proposed by BLM in Fairbanks. We are currently working on a letter to the Governor opposing the Juneau Access Road.

We reestablished the Stocks at Risk Committee to look at the feasibility and cost of extending the status review of Alaska salmon escapements. The first action the committee took was to change its name to the Salmon Stock Status Committee. Committee members are Alex Wertheimer, Chair; Tony Gharrett; Jim Reynolds; Hal Geigher; and Tim Baker. The committee identified four possible approaches to take to implement the stock status review and drafted a proposal to "shop around" for potential funding sources. The proposal is currently under consideration by the EXCOM. It should be distributed soon. For more information on this project, call Alex Wertheimer at (301) 713-2276 or e-mail him at alex.wertheimer@noaa.gov

Bill Bechtol and the local arrangements and program committees have been actively planning our 1999 annual meeting. This year's meeting will be held in Kodiak, Alaska, November 9 through 11. To help with the planning, chair a session, present a poster or paper, or just get more information contact Bill at 235-8191,

Bylaws Change Passed

The membership approved the proposed changes to the Chapter Bylaws as published in the last *Oncorhynchus* by a unanimous vote. The changes will become official upon approval by the Society Executive Committee. 🗨️

Western Groundfish Conference

The Western Groundfish Conference has been held biannually since 1981 as a forum to disseminate research results and discuss management alternatives for the West Coast's marine resources. It is scheduled for 24-28 April 2000 in Sitka, and posters or oral presentations are being solicited. For more information, contact Tory O'Connell at 747-6688 or e-mail toryo@fishgame.state.ak.us. 🗨️

Red Alert!

Carol Ann Woody

Please check your mailing label to verify that your membership with the Alaska Chapter of AFS is current. For example, if of your label is

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Dolly Varden
1144 Salvelinus Lane
Fairbanks, AK 99702

the first two numbers indicate the year through which your Parent Society dues are current 1999. The last two numbers indicate whether you are current in the Alaska Chapter of AFS. In this example, the member last paid in 1998. If your last two numbers are not 99, then PLEASE PLEASE BRING YOUR CHAPTER DUES UP TO DATE. Thank you for attending to this matter. 🗨️

Your E-Mail Address

Allen Bingham

The Chapter Executive Committee is developing an e-mail contact list for Chapter members. Please e-mail your address to Allen_Bingham@fishgame.state.ak.us. If you want your e-mail address to be "private" (in other words only to be used by the Chapter alone, no affiliates, etc.), please indicate as such in your e-mail. Thanks in advance!!!

ONCORHYNCHUS

Oncorhynchus is the quarterly newsletter of the Alaska Chapter of the American Fisheries Society. Material in this newsletter may be reprinted from *AFS Diary* and *Western Division*.

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Deadline for materials for the fall issue of *Oncorhynchus* is Sept. 10.

Alaska Chapter's Internet Home Page Address

<http://www.alaska.net/~fishak>

Essential Fish Habitat, continued from page 1

Federal agencies that may impact EFH are required to consult with NMFS regarding potential effects of their actions on EFH, and respond in writing to NMFS recommendations. In addition, NMFS is required to comment on any state activities that would impact EFH. NMFS is working with federal agencies to develop the process that will be used for EFH consultations.

The FMP's are required to be updated at least every 5 years. Research is ongoing to gather new information to better define EFH and assess impacts to EFH. 🐟

Chapter Annual Meeting, continued from page 1 solutions to resource problems. The meeting theme of "Today's Technology for Tomorrow's Resources" is intended to foster discussion among meeting participants on research and management techniques to guide long-term, sustainable use of our aquatic resources.

"The Island Terrific in the North Pacific," Kodiak serves as a hub for both marine and freshwater management and research. The timing of the 1999 meeting should also provide the opportunity to observe (and perhaps purchase) some king crab and groundfish deliveries, and recreational fishing can still be productive for halibut, lingcod, rockfish, and chinook. A Kodiak meeting will also provide special opportunities for AFS members with hunting interests.

Chapter Meeting Program The meeting is intended to offer a semi-formal environment to facilitate sharing of current research and management issues and developments. We are soliciting proposals for meeting sessions, workshops, and luncheons. Presentations and posters dealing with any aspect of research or management are encouraged. Sessions and session chairs/co-chairs (in parentheses) identified to date include: *Improvements to Shellfish Assessment and Management* (Gordon Kruse and Dan Urban); *Groundfish* (Tory O'Connell and Jon Heifetz); *Telemetry* (Doug Palmer); *Acoustics* (Debby Burwen); *Genetics* (Jim Seeb); *Contributed Papers* (Buck Bryant); *Subsistence* (Jerry Berg), and *Posters* (Robert Ourso). Potential sessions or workgroup topics also include riparian management, use of reserves, essential habitat, herring management, ageing techniques, and multi-species modeling.

Abstracts for posters or oral presentations should be submitted electronically to the program chair or session chair. The abstract title should be descriptive but brief. The abstract should list all authors, affiliations, and postal, phone, fax, and e-mail addresses. The abstract should be 250 words or less and should contain a statement of the problem, study objectives, major findings, and key conclusions. Abstracts must be received by October 1, but we encourage earlier submissions.

If you are willing to coordinate or participate in a session or workgroup, please submit proposals or abstracts to the session chair or to Bill Bechtol, ADF&G, 3298 Douglas Place, Homer, AK 99603; 235-8191; fax: 907/235-2448; e-mail: bill_bechtol@fishgame.state.ak.us.

Wally Noerenberg Award Nominations

Nominations are currently being sought for the Alaska Chapter Wally Noerenberg Award to honor life long career achievements in fisheries excellence. Contributions may include but are not limited to fisheries research, technological development, species and habitat management, innovations in harvesting, processing or marketing, academics or fisheries education, and involvement in national or international affairs affecting Alaska fisheries. Nominations should include a short justification about why you feel the nominee should receive the award. Also, feel free to submit any other supportive documentation that may be useful to the award committee. Send your nominations to the Wally Noerenberg Award Chair: Gordon Kruse, ADF&G, Division of Commercial Fisheries, P.O. Box 25526, Juneau, AK 99802-5526. 🐟

AFS Assists ANROE

Laurel Devaney

AFS has formed an educational partnership with the Alaska Natural Resource and Outdoor Education Association (ANROE). ANROE was founded in 1983 to promote and implement excellence in natural resource, outdoor, and environmental education in Alaska. This group has a diverse statewide membership consisting of rural and urban teachers; Native corporations; University professors; museums; and state, federal, and private natural resource and environmental educators.

ANROE publishes a newsletter "Flyways, Pathways, and Waterways" each year in November, February, and May. Each fall issue is dedicated to fisheries and aquatic issues. The newsletter highlights environmental education methods; reviews pertinent curricula and web sites; advertises workshops, camps, and training opportunities; and publishes activities that can be used in the classroom. The newsletter is distributed to ANROE's membership, sent to Alaskan science teachers, and members of the state legislature. Additional issues are distributed at workshops and meetings.

The AFS Alaska Executive Committee has voted to sponsor the fisheries issue of the 1999-2000 ANROE newsletter. This partnership should prove to be beneficial to both groups. The ANROE membership and state science teachers are an ideal audience to help AFS fulfill our fisheries conservation and education goals. AFS sponsorship of this newsletter will also help ANROE further realize their own education goals. Copies of this newsletter will be available to all AFS members. 🐟

AFS Appoints New Executive Director

Bethesda, Md MAY 26, 1999.– Ghassan ("Gus") Rassam, a recognized leader in the online publishing and nonprofit association communities, has been appointed the fifth executive director of AFS. Rassam will head the world's largest and oldest organization of fisheries professionals at a time when the Society is launching a 5-year strategic plan that focuses on fisheries and aquatic stewardship, professional development, and a greatly expanded communications program. 🐟

Student Travel Awards

The AFS Equal Opportunity Section is heading up an effort to increase participation in the society by students from under-represented groups. Last year travel grants were set up to assist these students with expenses incurred when attending the Annual Meeting. We would like to do the same this year and are soliciting help from Section and Unit leaders in our efforts. Last year, six students received awards at \$500/student. The response from students to both the chance to attend the meeting and the mentoring luncheon was excellent. We have received positive feedback from students who are now graduating and finding that the luncheon helped them considerably in acquiring invaluable employment contacts.

In addition, please let interested students know of our efforts. They should send a brief biographical sketch that includes a description of their fisheries interests to MaryLouise Keefe at keefem@eou.edu or by mail to ODFW, 211 Inlow Hall - EO, LaGrande, OR 97850. In addition to receiving travel assistance these students will be invited to participate in a hosted luncheon (see below) where they will be matched with a meeting mentor and can learn about job opportunities with the US Fish and Wildlife Service. Connie Young-Dubovsky 410-573-4522, Fax: 410-269-0832, connie_youngdvbovsky@fws.gov.

Mentoring Luncheon

The AFS Equal Opportunity Section and the USFWS Southeast Region are sponsoring a luncheon for students, new members, and other members that would like to make the most out of the AFS Annual Meeting and learn about job opportunities at the same time. Agenda items for this lunch meeting include: an introduction to AFS, establishing mentoring relationships, networking opportunities, and career opportunities with the US Fish and Wildlife Service. In addition to students, we need members to volunteer as mentors for the students. It will be Monday August 30 at noon. The location will be posted at the meeting. Individuals interested in attending this free luncheon as a student or as a mentor should register with MaryLouise Keefe at (541) 962-3777 or keefem@eou.edu. The deadline for registration is August 1, 1999.

Biotelemetry Symposium Recap

The NMFS Auke Bay Laboratory recently hosted the 15th International Symposium on Biotelemetry in Juneau on May 9-14. Scientists from 30 states and 17 countries attended. The conference encompassed a wide range of topics and disciplines, and provided a unique opportunity for researchers and managers to discuss new technologies and applications. In addition to the scientific papers, evening seminars discussed specific topics in more detail, ranging from designing radio-tagging studies in aquatic systems to use of GIS for analyzing telemetry data. The conference also included a commercial exhibition, giving researchers an opportunity to talk directly with suppliers about equipment needs and applications. Abstracts of papers at the conference will soon be available on the International Society of Biotelemetry Internet web site (www.indstate.edu/isb/). Anyone interested in the conference proceedings should contact John Eiler (john.eiler@noaa.gov).

Third World Fisheries Congress

Close to 1,000 fisheries professionals from around the world are expected to attend the Third World Fisheries Congress, scheduled for October 31-November 3, 2000, at the International Convention Center in Beijing, China. Attendees will explore the theme, "Feeding the World with Fish in the Next Millennium: The Balance between Production and Environment." The event is cosponsored by AFS, Asian Fisheries Society, World Aquaculture Society, and Australian Society for Fish Biology.

Potential presenters are invited to visit the meeting web site (www.fisheries.moa.gov.cn) for details about abstract and paper submissions. Papers on the following three topics are especially sought: "Fish Farming: Past, Present, and Future;" "Aquafood: Advances in Seafood Technology;" and "Contributions of Information Technology to Fisheries Sustainability."

For more information contact AFS at 301/897-8616, ext. 212, or the China Society of Fisheries, Bldg. 22, Maizidian Street, Chaoyang District 100026, Beijing, P. R. China; cnsfish@public.bta.net.cn.

Cultural Diversity Travel Award

The Alaska Chapter is pleased to announce availability of an award of \$350 to help meet travel expenses to the 1999 Alaska Chapter Annual Meeting in Kodiak, November 9-11, 1999. The purpose of the award is to encourage participation in the fisheries field by minorities and women. Applicants must meet the following minimum qualifications: 1) Be an Alaska Native, a member of another recognized minority group (Native American, Black, Hispanic, Asian, or Pacific Islander), OR female. This year the award is targeted toward Alaska Natives, in particular. 2) Reside greater than 50 miles from the Kodiak meeting location. 3) Be at the beginning professional level (e.g., Technician or Biologist I) in a fisheries-related field. 4) Submit a completed application by September 8 to AFS Cultural Diversity Committee, %Kate Wedemeyer, 1941 Hamilton Drive, Anchorage, AK 99515. Applications may be downloaded from the Chapter website at <http://www.alaska.net/~fishak> or obtained by writing the Cultural Diversity Committee at the above address.

A committee will evaluate applications in five categories: 1) Reason for attending; 2) Professionalism; 3) Academic background; 4) Contribution to or involvement in fisheries; and 5) Need.

The award recipient will be announced in *Oncorhynchus* and will be introduced at the Annual Meeting. The recipient will also be expected to write a brief statement about their experience at the Annual Meeting to be published in the winter *Oncorhynchus*. The Chapter reserves the right not to present any award. The recipient of this award is ineligible for any other Chapter travel award in the same year.

The committee welcomes Chapter members willing to mentor potential awardees in the application process. Please contact the diversity committee at the above address. You may also e-mail the committee at kate.wedemeyer@elmendorf.af.mil, or call Kate at 552-2436.

Teaming with Wildlife

A Message from President Bob Carline

Greetings,

I recently attended the N.A. Wildlife and Natural Resources Conferences and participated in the International Association of Fish and Wildlife Agencies' Teaming with Wildlife Committee. This committee and others have been working for several years trying to find funding for nongame programs. Here is a summary of information from that committee meeting.

The Conservation and Reinvestment Act (CARA), H.R. 701 and S. 25, are likely to be the only major pieces of environmental legislation considered by this Congress. Most concerns over earlier versions of these bills have been addressed in the current bills. Most of the NGOs and other interest groups that were opposed to last year's bills are now supporting CARA, though a few groups remain skeptical. At present these bills are enjoying widespread support. A substantial number of governors have gone on record in support of CARA. Currently, H.R. 201 has 64 cosponsors and S. 25 has 15.

There are two other similar bills labeled Resources 2000: H.R. 798 (Miller) and S. 446 (Boxer). These bills

have a more limited revenue stream than CARA, but they have some attractive conservation aspects. Sponsors of CARA and Resources 2000 are conferring and the most likely outcome is a blending of these bills. Everyone involved seems committed to ensuring funding for the Teaming with Wildlife concept.

Offshore oil revenues are proposed to fund two other legislative initiatives, but neither of these provide funding for the Teaming with Wildlife concept. The Public Land and Recreation Investment Act, S. 532 (Feinstein), is directed at improving urban parks. The administration's Lands Legacy Initiative provides for marine conservation programs, recreation lands, and several other programs.

Committee members emphasized that passage of CARA this year is critical. If passage is delayed until next year, an erosion of support is expected, partly because it will be an election year. The Committee urged the conservation community to take the following actions. 1) Contact your representatives and urge them to support and cosponsor H.R. 701, with particular emphasis on Title III. 2) Visit members of Congress at their home offices to urge their support of CARA. Congress will be in recess from March 27 to April 11. 3) Focus contacts on members of the House and Senate Budget Committees. Information on committee membership can be found at www.teaming.com/keymemb.htm, and 4) When contacting Senators, urge them to increase the allocation to Title III from 7 to 10% in S. 25.

The Governing Board voted to give Bob Kendall authority to draft appropriate letters expressing the Society's support of the Teaming with Wildlife concepts in the current bills. These letters will be sent shortly. Many Society Units have already expressed their support for this issue. Of those that have not yet done so, timely consideration is needed because it appears that the next few months will be critical. Regards, Bob. 🐟

Surplus Fisheries Publications Wanted

Most fisheries resource offices have a number of old or duplicate issues of fisheries-related journals. In many cases, it may have been years since you looked at these issues, but they have intrinsic scientific value and you are reluctant to throw them in the trash. If you have excess books, journals such as Transactions of AFS, North Am. J. Fish. Mgt., Can. J. Fish. and Aquat. Sci., J. Shellfish Res., or other publications that are in good condition but excess to your needs, the Alaska Chapter's International Committee has a deal for you! Fred DeCicco, committee chair, and committee member Lou Carufel would like to use your excess journals to promote cooperation and the exchange of scientific information among the Alaska Chapter and fisheries professionals in other countries, such as Russia. Please forward any books, journals, or other publications that you can spare to Lou Carufel, 303 C St., Fairbanks, AK 99701. These publications will be shipped to fisheries staffs in other countries. If you have questions, please contact Lou at 452-6709 or e-mail loucaye@mosquitoenet.com. And remember, you can minimize cost of sending journals to Lou by shipping by "intra-state" postage rate. 🐟

USGS-NBII Metadata Workshop

AFS is co-sponsoring a continuing education workshop with USGS National Biological Information Infrastructure at the 1999 AFS Annual Meeting. The workshop will be given on 29 August, 8:00 am to 5:00 pm. There is a \$50 fee. Workshop description and registration forms are at www.fisheries.org/annual99/ConEd.htm.

Questions about course content can be directed to Sharon Shin, NBII Metadata Training Workshop Coordinator, at (303) 202-4230; (303) 202-4219 (fax); sharon_shin@usgs.gov. Please send registration questions to Laura Hutchcroft, Units Coordinator, at (301) 897-8616 ext 201; (301) 897-8096 (fax); lhutchcroft@fisheries.org. 🐟

Student Unit Symposium

Mike Byerly, President

The Juneau Sub-unit of Chapter Student Unit recently held the second annual Graduate Student Symposium. This symposium is an opportunity for students to formally present their research to scientists and the local community. Organizers included Tim Sands, Karla Granath, Zhenming Su, Ivan Wang, and Jill Mooney. A last minute crisis (the conference started early in the morning) was narrowly averted when Lynn Mattes volunteered to run to A&P for coffee. Jan Conitz, Jill Mooney, Jennifer Boldt, Julia Mabry, Caihong Fu, Ivan Wang, Zhenming Su, Karla Granath, Kathy Swiney, and Tim Sands all gave talks (Jill Mooney also prepared a poster). Jennifer Boldt and Jill Mooney were awarded prizes for best presentations by a distinguished panel of judges, which included Buck Bryant of USFS, Chuck O'Clair of NMFS, and Hal Geiger, Doug Eggers, Grey Pendleton, and Doug Woodby of ADF&G. The judges were uniformly impressed by the quality of the presentations. Many Juneau high school students also attended and asked insightful questions. 🐟

Oncorhynchus

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FIRST CLASS

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1999 Alaska Chapter Officers

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Past President Mason "Buck" Bryant, 770 Sherwood Ln, Suite 2A, Juneau 99801-8545, Phone: 586-8811 x228, Fax: 586-7848, 780-4395 (h), E-mail: *mbryant@ptialaska.net*

Student Unit President, UAF, Southeast, Mike Byerly, PO Box 210751, Auke Bay 99820, Phone: 790-4661, E-mail: *ftmmb@uaf.edu*

Feel free to contact the Executive Committee members.

1999 AFS Membership Application

Print or type applicant's name in full

Address

City State Zip Code

Nation Membership year*

Kindly make checks payable to American Fisheries Society in U.S. Currency or Equivalent.

Please mail to Allen Bingham P.O. Box 221804 Anchorage, AK 99522-1804

Professional recruiting others (PROCLUB)

If applicant is a student as defined below, the teacher endorsing him signs here.**

Name of institution where student is enrolled

Date

Please provide phone numbers for directory and Society use only:

Home _____ Work _____

Fax _____

Employed by:
 federal gov't. state/prov. gov't. industry academia self

Alaska Dues: \$10.00 Alaska Student Dues: \$5.00

Membership Dues (includes Fisheries and Membership Directory)

Regular: \$75.50 (Canadian \$83.50, other than U.S. \$87.50)

Student: \$37.50 (Canadian \$41.50, other than U.S. \$43.50)

Retired: (age 65 or over): \$37.50 (Canadian \$41.50, other than U.S. \$43.50)

Life: \$1,736.00 (includes Fisheries and one other journal of choice)

\$15.00 E-Pub via WWW/Internet

1 Prices are for AFS members only 2 Membership not required for subscription

* New members accepted Jan. 1-Aug.31 are credited to full membership for that year. (Back issues of Journals are sent.) Members accepted Sept. 1-Dec. 31 credited

Journal Subscriptions (Optional)

Transactions of the AFS¹ N.A. Journal of Fisheries Management

\$38.00 Paper in U.S. \$43.00 Paper other than U.S.

\$15.00 E-Pub via WWW/Internet

Progressive Fish-Culturist² Journal of Aquatic Animal Health¹

\$33.00 Paper in U.S. \$38.00 Paper other than U.S.

to full membership as of next Jan. 1, unless requested otherwise. Membership on calendar year only.

** Bona fide students of fisheries subjects are eligible for Student membership (limited to 6 years). Persons employed full-time not eligible. Teacher endorsement required (see above).

NOTE: Retired membership for Active members upon retiring at age 65.

Sustaining membership for commercial firms, conservation clubs, or others desiring to support the Society. Library Subscriptions include bimonthly *Transactions*, quarterly *North American Journal of Fisheries Management*, *Journal of Aquatic Animal Health*, quarterly *The Progressive Fish-Culturist*, bimonthly *Fisheries*, and Membership Directory.