

President-Elect's message

by Randy Rushin

It's Right around the Corner!

Wow, January 19-21, 2017 is only a month away, and the TCAFS meeting will be upon us. The committees are putting the finishing touches on the conference as we speak. We are very fortunate to have such a great group of dedicated members who make our organization AWESOME!

And speaking of committees, this conference could not happen without your help. Please consider volunteering to assist with the conference – even if it's only for a few hours – your help is VERY much appreciated.

REGISTER NOW!

Holiday Inn Downtown Marina

RESERVATION PHONE NUMBER: 888-729-5058 Block code - "TCA" valid until 12/29

\$106 Single and \$115 Double, includes parking

Note: The hotel has agreed to extend the rate for Wednesday and Saturday nights – so bring your family and enjoy some coastal fishing, the Texas State Aquarium, and the USS Lexington!

Abstract Submission
Award Nominations
Hotel Information
Registration Form

Deadline: **December 01, 2016**
Deadline: **December 19, 2016 – EXTENDED!**
Deadline: **December 29, 2016**
Deadline: **December 31, 2016**

All of this information is available at the NEW URL: <http://sd.fisheries.org/tcafs/>

As stated in previous newsletters, the last TCAFS held in Corpus Christi was in 1999. At that meeting, the Panel Discussion was "Water Use Issues in Texas - A 21st Century Challenge for Fisheries Managers." The panel discussed concerns about the rapid growth of Texas' population, especially in urban areas, and its effect on our State's natural resources, including its lakes, rivers, wetlands, and estuaries. For our upcoming convention, we have to revisit this topic with three featured speakers who will discuss balancing the water needs of people, industry, agriculture, and ecology.

You don't want to miss the opportunity to hear from some our State's leading experts:



Dr. Robert Mace	Deputy Executive Administrator; Water Science & Conservation Texas Water Development Board
Glenn Clingenpeel	Executive Manager Planning and Environmental Services Trinity River Authority
Cindy Loeffler	Water Resources Manager Texas Parks and Wildlife Department

Please send in those registration forms and make your hotel reservations TODAY. Wishing you a wonderful holiday and looking forward to seeing you in January!

Report on Nation's Waterways Provides Insight into Habitat Changes

By Ryan Roberts

National Fish Habitat Partnership Program Manager

2015 Assessment Report Expands on First Ever Assessment Completed in 2010

(Washington, DC) - The National Fish Habitat Partnership, www.fishhabitat.org has released their latest Assessment Report, titled: "THROUGH A FISH'S EYE: THE STATUS OF FISH HABITATS IN THE UNITED STATES 2015." This report summarizes the results of an unprecedented, nationwide assessment of human effects on fish habitat in the rivers and estuaries of the United States. The assessment assigns a risk of current habitat degradation scores for watersheds and estuaries across the nation and within 14 sub-regions. The results also identify the major sources of habitat degradation.



The 2015 report updates and revises the 2010 "Status of Fish Habitats in the United States," that summarized initial results of a first-ever comprehensive national assessment of aquatic habitats at an unprecedented scale and level of detail. The 2015 report provides even greater detail and improves our knowledge of the condition of fish habitat in the United States. The 2010 inland streams assessment characterized fish habitat condition using stream fish data from more than 26,000 stream reaches, while the 2015 assessment was based on fish data from more than 39,000 stream reaches nationally. To increase accuracy, the 2015 inland stream assessment incorporated 12 additional human disturbance variables into the fish analysis, when compared to the 2010 assessment. Additional variables incorporated into the 2015 assessment and their summary within catchments and buffers allowed for more explicit characterization of the diverse set of disturbances to stream fish habitats occurring across the Nation than what occurred in 2010, and this was made possible due in part to advances in available GIS layers. With the incorporation of these additional disturbances, managers and decision makers can use assessment results to more explicitly identify limits to stream fish habitats.

KEY REPORT FINDINGS:

The United States is home to a diverse array of freshwater and marine fish, shellfish, and other aquatic species. More than 3,000 species of fish inhabit America's streams, rivers, lakes, reservoirs, marshes, swamps, bays, estuaries, coral reefs, seagrass beds, shallow water banks, deep ocean canyons, and other aquatic habitats. The United States is also home to more than [322 million people, 39% of whom live near the coasts](#) and all depending on the same water that fish call home. [In 2012, approximately 25 percent of the nation's acreage was agricultural and 6 percent was developed.](#) However, these and other consequences of human inhabitation affect much broader areas by altering water flow (hydrology), water quality, and many aquatic habitat characteristics. Few aquatic habitats in America have been or are currently unaffected by human activity and some have been severely degraded.

Within the United States, aquatic habitats with both high and low risk of degradation occur in landscapes with specific characteristics. Aquatic habitats tend to have a very high risk of degradation in landscapes with urban areas, high intensity agriculture, and heavy industrial use. In landscapes with sparse populations, including Alaska, national parks, and other protected areas, aquatic habitats tend to have a low risk of degradation. While our national map shows landscapes with such patterns of low and high risk of degradation, many locations throughout the United States may be threatened and would benefit from protection to prevent degradation or rehabilitation if they are degraded at this time.

The report also documents areas where fish habitat is most likely still unaffected by human development and likely intact with the largest amount in Alaska. It is critical that these areas be protected to maintain their value for aquatic organisms and for the recreation of the people that use those waterways. Moreover, it is far more cost effective to protect a pristine area, at minimum a 10:1 return on dollars invested, rather than allow it to become degraded and then have to fund expensive rehabilitation efforts.

Furthermore, our efforts to measure habitat condition and to use this information to conserve fish habitats are limited by the available information. It is critical to have data collected in a consistent, comparable manner across the United States to allow a national assessment to be properly developed and to be fully used in conservation planning. There are a number of geographic areas and key habitat types that could not be evaluated by this assessment due to the lack of available national resources and information including the nation's lakes, reservoirs, Great Lakes, Alaskan estuaries, and inshore and offshore marine areas. There is a critical need for the collection, standardization, and analysis of data to assess fish habitat in these areas. New sources of information and data are also essential to allow the detailed analysis of water flow patterns (hydrology), grazing intensity, forestry practices, small dams and culverts, sedimentation, riparian management, channel and bottom morphology, water quality (in particular temperature and dissolved oxygen), and the effects of organisms on their environment on fish habitat. This information is crucial to communicating threats to these fish habitats, prioritizing fish habitat conservation efforts, and determining the best strategies to maximize limited resources.

Resources for fish habitat conservation are limited. This report illustrates the need for and the value of the strategic use of those existing resources through partnerships - such as the Fish Habitat Partnerships established under the National Fish Habitat Action Plan - that can identify the most effective use of funds and help the nation as a whole make progress in fish habitat conservation. Examples of how collaborative fish habitat action can bring change are included in each regional section.

The 2015 Report is unique, as it is a web-based application with a framework that allows for efficient updates of assessment information and findings through time. The 2015 report allows users to navigate findings and explore interactive maps of results by region or nationally. In addition, the report provides users with the ability to download sections of the report as PDF documents, or to save and share a web link that is unique to a subsection of interest. The 2015 Report and Assessment can be found at: <http://assessment.fishhabitat.org>.

This report provides an important picture of the challenges and opportunities facing fish and those engaged in fish habitat conservation efforts. Urban land use, agriculture, dams, culverts, pollution, and other human development have

resulted in specific areas of degraded habitat where rehabilitation is most likely needed to bring back the healthy habitats and fishing opportunities that once existed. Addressing degraded habitat also requires reducing or eliminating the sources of degradation mentioned in this report, through best management practices, land use planning, and engaging landowners, businesses, and local communities in the effort. This report identifies areas where those efforts are most needed.

This Assessment would not have been possible without key contributions from the Assessment writing team, National Fish Habitat Partnership (Science and Data Team), Michigan State University (Inland Assessment), National Oceanic and Atmospheric Administration (NOAA) (Coastal Assessment) and U.S. Geological Survey (USGS) (Data Management and Report Development).

“This Report serves as a good indicator to identify areas where habitat conservation efforts are most critical and points to areas where fish habitat is most likely intact and should be protected. This report can be a great tool in the decision-making process in setting conservation and project priorities.” said Tom Champeau, Chair of the National Fish Habitat Board.

“The 2015 (inland) assessment is a remarkable and comprehensive view into the condition of the Nation’s rivers. It is a national tool to raise public awareness on the state of and threats to our rivers, and it gives managers and decision-makers critical information on where and how to conserve and restore river fish habitats.” said Dana Infante, Associate Professor at Michigan State University. “We are very proud of the assessment outcomes and acknowledge contributions from partners across the Nation including giving us feedback on our approach and sharing data.”

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About the National Fish Habitat Partnership:

2016 marks the 10-year Anniversary of the National Fish Habitat Partnership. Since 2006, The Partnership has supported 599 projects benefiting fish habitat in all 50 states. The Partnership works to conserve fish habitat nationwide, leveraging federal, state, tribal, and private funding resources to achieve the greatest impact on fish populations through priority conservation projects of 20 regionally-based Fish Habitat Partnerships. For more information visit:

<http://fishhabitat.org/>

<http://www.facebook.com/NFHAP>

<https://twitter.com/FishHabitat>



TCAFS members serve on AFS Governing Board and Management Committee

by Ken Kurzawski

Numerous TCAFS members over the years have served the Society as officers in Divisions and Sections, and as an extension of these positions, as members of the Society's Governing Board and Management Committee. In addition to the Society's elected officers, leadership for the Society is provided by the Governing Board and Management Committee.

At the recent AFS Annual (don't call it the "National") Meeting in Kansas City, TCAFS members Carl Kittel (president of the Fish Culture Section), Tom Lang (president of the Socioeconomic Section), and I (president of the Fisheries Administration Section), participated as Governing Board members at an all-day meeting on August 20. I am also a member of the Management Committee and attended that committee's meeting on August 19. Both Carl and I will continue to serve on the Governing Board until the annual meeting in Tampa. Craig Bonds, as the SDAFS vice-president (soon to be president-elect), has joined us on the Governing Board. All of us serve on the Management Committee this year.

The Governing Board guides the Society at the highest level, and is composed of the elected officers, the Executive Director, Division presidents and presidents-elect, Section presidents, president of the Student Subsection of the Education Section, and the Constitutional Consultant. The Governing Board is the ultimate authority for the operation of the Society. It is the equivalent of a board of directors, deciding policy for the Society, authorizing its operations, hiring its Executive Director, and making financial decisions. It meets twice a year: at the Annual meeting and a mid-year meeting.

The Management Committee meets monthly usually by conference call and functions as an executive committee of the Governing Board. The Committee handles general oversight of Society operations, including budget approval; Executive Director activities and, through him/her, staff activities; society-wide meetings; communications with membership, external partners, and government entities; and matters related to and affecting Society procedures. In addition to the Society's five elected officers, the Constitutional Consultant, and the Executive Director, the Management Committee is comprised of the presidents of two Divisions, presidents-elects of the two alternative Divisions, and four Division or Section members who are on the Governing Board and who are elected at large by the Board.

While attending more meetings or conference calls is never high on anyone wish list, the Governing Board and Management Committee serve a crucial role in providing input on your concerns through your Section or Division representatives. Through my involvement, I have gained a greater appreciation of all that goes into running AFS. Board members and elected officers display a strong desire for insuring that the Society maintains the highest professional standards and are diligent in keeping members at the top of the Society's list. As with most involvement in Society activities, serving on the boards provides an excellent opportunity to network and exchange ideas with other members from every discipline represented in AFS.



(Left to Right) Tom Lang, President of the Socioeconomics Section, Carl Kittel, President of the Fish Culture Section and Ken Kurzawski, President of the Fisheries Administration Section.



DEADLINE FOR NOMINATIONS 12/19/2016

Every year during the TCAFS annual meeting, we have the opportunity to honor the folks we work with or know who have made great contributions to the fisheries of Texas in seven (7) categories listed below. The person doing the nominating and the person being nominated must both be a member of the TCAFS in good standing.

- Fisheries Administration
- Fisheries Culture
- Fisheries Education
- Fisheries Management
- Fisheries Research
- Fisheries Technical Support
- Fisheries Student

Additionally, an award for **Special Recognition in Fisheries Work** can be given to honor the efforts of individuals or groups who do not belong to the Chapter or whose efforts do not readily fall within one of the formal categories above.

Due to technical difficulties, the current TCAFS awards web page does not provide the criteria for the award categories. To assist with the nomination process, here is what you need to know about each of them so you can bring out these points in your nomination.

Administration:

- 1) Development of innovative management programs, research activities, or facilities that significantly affect fisheries management and conservation on a regional or statewide level.
- 2) Leadership in implementation of regulations or management programs that address regional or statewide fisheries issues.

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- 3) Development of new sources of funding for fisheries programs.
 - 4) Leadership in the development of public outreach or recognition/award programs.
 - 5) Significant and effective promotion of fisheries management and conservation activities on a regional or statewide level.

Culture

- 1) Development of techniques that produce fish more safely, more efficiently, or more economically.
- 2) Development of methods that produce species not formerly cultured.
- 3) Development of procedures that produce more fish.
- 4) Participation in the development of equipment that benefited fish culture.
- 5) Promotion of fish culture.
- 6) Participation in the production of a record number of fish (may be station- or species-specific).

Education

- 1) Development of an innovative approach to fisheries education as illustrated through development of a new or revised course or curriculum.
- 2) Publication of a journal article, extension publication, book, or book chapter that contributed significantly to fisheries education.
- 3) Contribution of notable service in public education programs.
- 4) Development of educational media (software, videotape, slide-tape, etc.) that contributed significantly to fisheries education.
- 5) Outstanding contributions to the profession through service as an officer or other leader of an educational organization (e.g., the Education Section of the American Fisheries Society).

Management

- 1) Development of management plans or strategies or implementation of management practices (reservoir or pond management plans, pre-impoundment work, habitat work, and development of urban fisheries). This would include private water work.
- 2) Education of the public in areas of fishing or fisheries management (conducting fishing clinics, educational programs, contact with various media, development of brochures, newsletters, bulletin boards, fliers, popular articles, etc.).
- 3) Coordination with different agencies (cities, counties, or federal government) or reservoir controlling authorities to develop or implement management strategies.
- 4) Participation in professional scientific organizations in the fisheries field to include offices held, committees served on, or other activities accomplished for the organization.

Research

- 1) Research contribution should add to the understanding of a biological problem or to solving a resource problem.
- 2) Research contribution can be basic, applied, or a combination.
- 3) Research contribution should have been disseminated, in order of importance, in a peer-reviewed journal, non-peer reviewed publication, or an oral presentation.
- 4) Participation in professional and public organizations in the fisheries research field that comment on, advise, or review research activities.
- 5) In order of importance, the nominee's role in a research project should be directing the project or program, establishing the project or program, analyzing data, or conceiving the project or program.

Technical Support

- 1) Development of new or improved design and/or construction of equipment used in field sampling, culture, and lab analyses, etc.

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- 2) Participation in some outstanding or unique management, research or culture activities which aided the fisheries profession.
 - 3) Participation in education programs for fisheries workers or the public.
 - 4) Accomplishments resulting in new or improved techniques or efficiency

The criteria for the student award has not been finalized, but here is the draft version.

Outstanding Student

- 1) Active participation in fishery-related work outside of the classroom, such as participation in a student chapter of the TCAFS, internship, outreach, or summer job.
- 2) Contribution to fisheries-related research as a student: assisting on research projects, contributing to published papers or has papers in press, and/or has made presentations in scientific meetings about fish-related topics.
- 3) Academic excellence, particularly in fish-related or aquatics-related class work.

To nominate someone, use Google Chrome as your browser and save the nomination form to your computer. Fill out and save the form and then click on the Submit by Email.

http://sd.fisheries.org/wp-content/uploads/2016/11/TCAFS_Award_Nomination_Form.pdf

The PDF program should show a form where you can fill in your name and email address, and I should receive the nomination.

HOWEVER, you might want to email me (Michele.nations@tpwd.texas.gov) the saved form

. . . just in case the computer gremlins eat it, if you know what I mean?

AND I'll also accept Word documents with the information required in the form. That should make life easier for everyone.



Don't forget how important awards are!

They shine the light on individuals, groups, or teams who deserve recognition for their contributions to Texas and TCAFS!



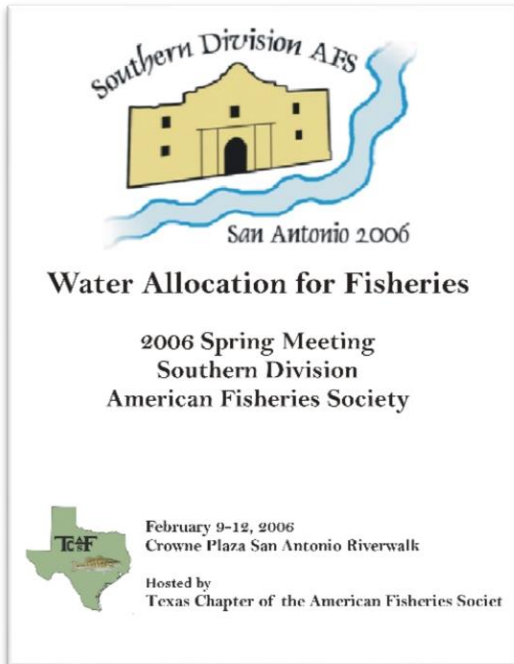
Help wanted!

There are opportunities to help out with audio visuals at the TCAFS annual meeting. If you're comfortable using a computer and you would be interesting in helping to load presentations and keep things going during the technical sessions, contact Danny Lewis at danny.lewis@tpwd.texas.gov or call him direct at 903-566-2161 extension 201.



Written on the Pages of TCAFS History

By Michele Nations



As we leave our 40th anniversary year, I'd like to turn back a few pages in our history to 10 years ago.

As we keep one eye on the future to 2019, let's turn a few pages back in our history to the annual TCAFS 2006 meeting, which was also a joint meeting with the SDAFS. The theme for the meeting was *Water Allocation for Fisheries*, and Dr. Larry McKinney, TPWD Director of Coastal Fisheries, led the plenary session. There were 19 technical sessions, which included Instream Flow, Marine Fisheries, Fisheries Science and Techniques, Trophy Fish Management, Fishery Applications of GIS, Exotic Species, Golden Alga, Urban Fisheries, Rivers and Streams, Aquaculture, Contaminants, and Fish Management. Species-specific sessions included those dealing with Catfish Management, Red Snapper, and Paddlefish and Sturgeon. A total of 190 technical presentations was given (200 abstracts were submitted for the Proceedings), which was a new record for the Chapter and the Southern Division.

There were nine SDAFS Committee Meetings, including Instream Flow, Reservoir, Warmwater Streams, Pollution, Aquaculture, LMB Virus Workgroup, Small Impoundments, and Trout. Five continuing education workshops included *Biologist, Angler, and Fishing Industry Interaction; Aquatic Plan Establishment; Investigational New Animal Drug (INAD) Approval; Leadership Regardless of Position: You Don't Have to be a Chief to Have Influence; and Student Workshop: Funding for Graduate Students: How to Find and Successfully Complete for Graduate Fellowships and Grants*.

The TCAFS steering committee consisted of a general chair (Dave Terre, TPWD), program chairs (Tim Bonner, TX State; Dick Luecke, TPWD), abstracts/posters (Craig Bonds, TPWD), fund raising/exhibits (Brian Van Zee and Charlie Munger, TPWD), local arrangements/finance (Ken Kurzwawski, TPWD), registration (Paula Hawkins, TPWD), coastal fisheries issues (Lance Robinson, TPWD), communications (Fred Janssen, TPWD), audio-visual (Danny Lewis, TPWD), student activities (Fran Gelwick, TAMU; Mark Webb, TPWD), signs (Debbie Wade, TPWD), and workshops (John Taylor, TPWD). Their areas of responsibility required support for all areas including, but not limited to, presentations/posters, fund raising/exhibits, and registration.

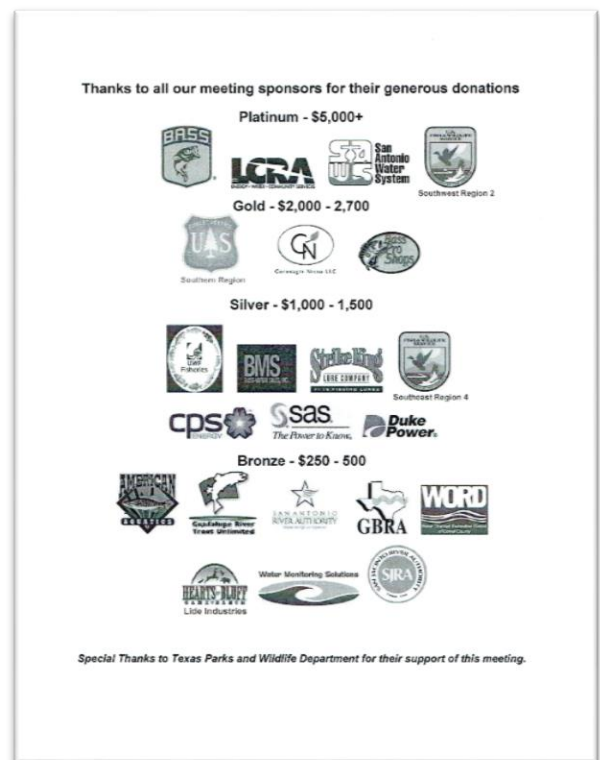
Presentations/Posters required:

- One who selects and schedules all of the presentations and sessions,
- Presenters who prepare and give or show them,
- Audio-visual personnel who handle the display and recording of each PowerPoint presentation,
- Moderators who introduce each presentation and keep the meeting on schedule, and
- Judges who evaluate them to select the winners for the Best Professional Presentation or Poster and the Best Student Presentation or Poster.

For fund raising/exhibits:

- Enthusiastic individuals who contact businesses and people to donate fishing and hunting equipment, wildlife art, and guide services,
- Raffle/play card auction coordinator and those who sell the raffle tickets, display the auction items, operate the raffle, and distribute the raffle items to the winners,
- Auctioneer who calls out the prices people offer for items and controls the bidding process, and
- Treasurer assistant(s) who transmit live and silent auction bid values to the treasurer who handles payment processing.

Other areas include the helpful people at the registration desk who volunteer to register every person who comes to the meeting and the vendors who provide the latest advances in fisheries products and meeting support.



To add to the success of the meeting, Executive Director of the AFS, Ghassan (Gus) Rassam, and several of the SDAFS Executive Committee complimented the TCAFS for being voted the 2005 Outstanding Chapter.



I would really appreciate any historical documents (for example, notes from the various meetings, photos, and programs with or without highlighting) you would like to share with me. I would like to add them to the TCAFS history archive.

- Michele



Freebies for the busy fisheries professional!



❖ Free grammer checker

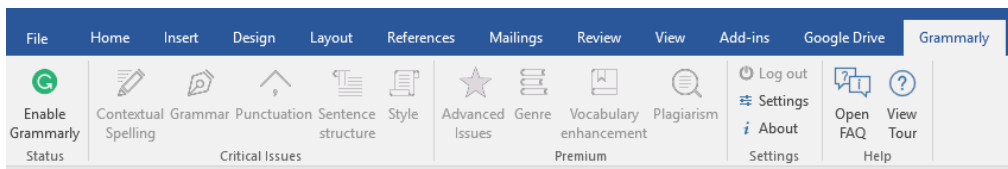
Fisheries professionals from diverse disciplines spend much of their work lives slaving away at technical writing.

For some, it comes naturally, while others struggle to

communicate their message clearly and accurately. Wouldn't it be convenient

to have a constant companion advising you on eliminating errors, enhancing clarity and meaning and making you a better writer? Such a tool exists and the best part is, it's free. Grammarly (www.grammarly.com) is a powerful writing tool that's available in a number of forms. It can be installed as an extension for the Chrome browser to check your writing when you use Facebook, Gmail, and LinkedIn or other online outlets.

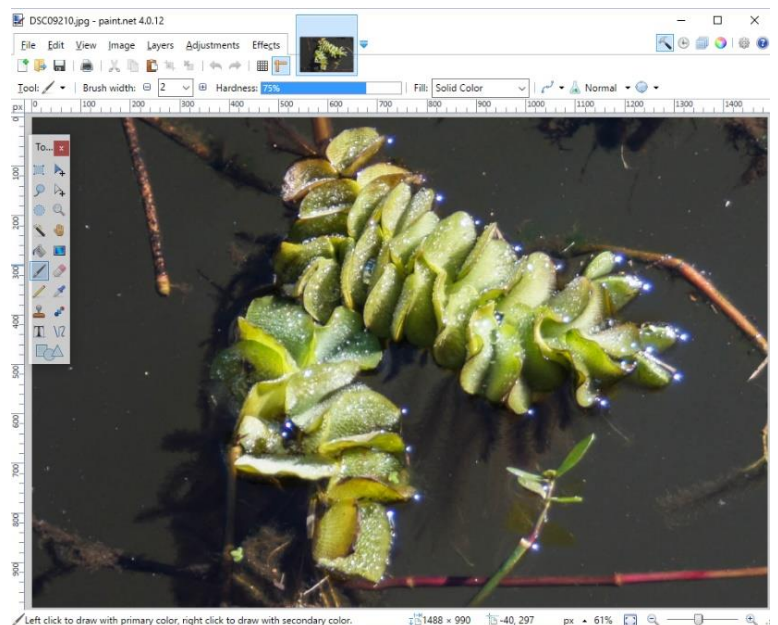
Alternatively, it can be installed natively on a Windows computer. To harness its power just drag the file you wish to proofread into Grammarly and watch the red ink start to fly! Ultimately Grammarly exists as an add-in for Microsoft Office and once installed and enabled it advises you as you write in Word and Outlook. During the installation process you will need to create an account, maybe so it can determine if you make any progress over time! Grammarly has monetized its offering by making a Premium plan available. Full disclosure here, I tried it out on a Windows 10 system using Office 365, but after a while, Word disabled it because it was creating some issues. Try it, your mileage may vary and after all, it won't cost you a dime. On the bright side, it might even make you a better writer!



❖ Powerful image and photo editor

If you need an image editor without the complexity or expense of Adobe Photoshop, and you work on a Windows PC, then you might consider Paint.NET (<http://www.getpaint.net/index.html>) The application supports layers, includes a variety of powerful tools and provides for unlimited undo so you can make your mistakes disappear.

It is supported by an active online community which provides assistance, tutorials and plugins to enhance its functionality. In case English is not your first language, it is supported in 22 languages! System requirements include an operating system of Windows 7 SP1 or later, a 1 GHz processor (dual core recommended), and 1 GB of RAM. It will run automatically in 64-bit mode on an x64 edition of Windows running on a 64-bit processor.

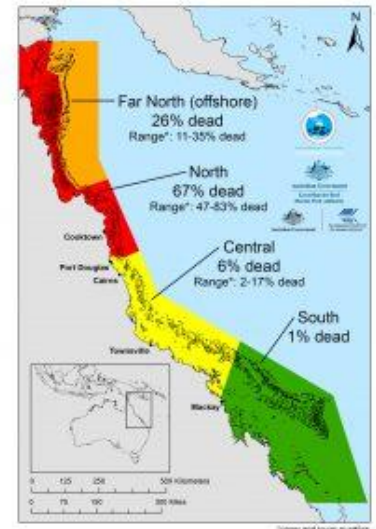


Flotsam & Jetsam – fish stories from around the world

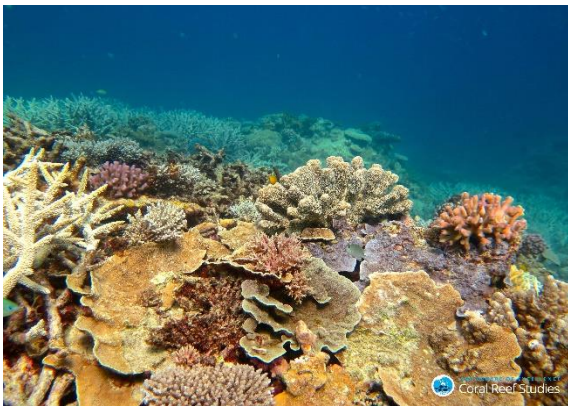
Sections of Great Barrier Reef suffer worst coral destruction

When coral reefs are exposed to increased seawater temperatures for a sustained period of time, the corals will expel their symbiotic algae (zooxanthellae) living in their tissues causing the coral to turn white, a phenomenon known as “coral bleaching”. The coral organisms can survive a bleaching event although they have lost their main source of energy. They are subsequently under more stress and are subject to greater threats from predators such as snails and crown-of-thorns starfish.

In February, March, and April 2016, the North section of the reef was hardest hit by the hottest sea surface temperatures recorded across the reef. Temperatures were at least 1°C higher than the monthly average. Previous bleaching events occurred in 1998 and 2002 but they caused minor damage. This year 67% of shallow-water corals in a 435 mile stretch in the North section of the reef died in the past 8-9 months. This is the largest confirmed die-off of corals ever recorded on Australia’s Great Barrier Reef. Further south and north, fortunately the damage was not as pronounced. In the Far North (offshore) section 26% of bleached corals died, 6% in the Central section and 1% in the South section where reef health was good. Scientists suspect reefs in the Far North may be protected from heat stress by upwelling of cooler waters from the Coral Sea. They expect the North region will take at least 10-15 years to regain lost corals.



Professor Terry Hughes, Director of the Australian Research Council (ARC) Centre of Excellence for Coral Reef Studies based at James Cook University, attributes increasing water temperature to carbon emissions and he warns that climate change could bring annual bleaching within 20 years. The Australian Government has published a long-term sustainability plan for the reef (<http://www.environment.gov.au/marine/gbr/long-term-sustainability-plan>), and pledged financial support for research into coral bleaching. The plan identified the need to make the reef more resilient to climate change in the future, while trying to lower carbon emissions.



Healthy Coral in the Capricorn Group of Islands, Southern Great Barrier Reef, November 2016. Credit: Tory Chase, ARC Centre of Excellence for Coral Reef Studies.



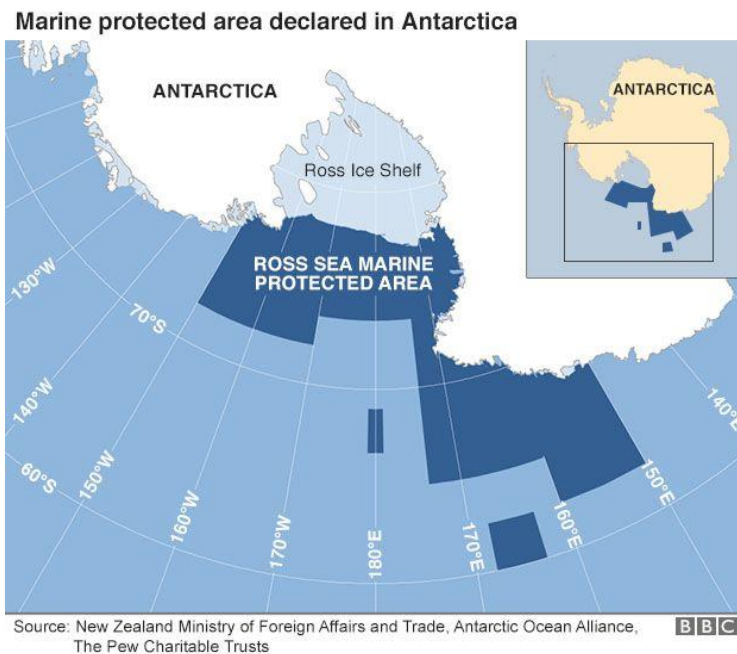
Dead table corals killed by bleaching on Zenith Reef, on the Northern Great Barrier Reef, November 2016. Credit: Greg Torda, ARC Centre of Excellence for Coral Reef Studies.

<http://www.bbc.com/news/world-australia-38127320>

<https://www.coralcoe.org.au/media-releases/life-and-death-after-great-barrier-reef-bleaching>

🐟 World's largest marine protected area declared in Antarctica

600,000 square miles of the Southern Ocean will be protected from commercial fishing for 35 years. The Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) has agreed unanimously to designate the Ross Sea in Antarctica as the world's largest Marine Protected Area (MPA). This area is considered to be the Earth's most pristine marine ecosystem and the MPA will come into force in December 2017. Representatives from 24 countries and the European Union eventually agreed unanimously on this designation after years of negotiations. The Ross Sea, its slope and shelf only account for 2% of the Southern Ocean but it contains 38% of the world's Adelle penguins, 30% of the Antarctic petrels and around 6% of Antarctic minke whales. There are concerns that overfishing and climate change are having a significant impact on the abundance of krill, which are an important food item for whales and seals. Oil extracted from krill is critical for salmon farming. This MPA will be a "no-take" zone where nothing can be removed including marine life and minerals. During negotiations special zones were agreed upon where fishing for krill and toothfish will be allowed for research purposes.



<https://www.ccamlr.org/en/news/2016/ccamlr-create-worlds-largest-marine-protected-area>





2017 Texas Chapter of the American
Fisheries Society Meeting
Holiday Inn – Downtown Marina
Corpus Christi, Texas – January 19-21, 2017



Registration Form

Registration now includes annual chapter dues but receipts will show itemized charges separately. (Professional or Student) and access to all technical sessions, the continuing education workshop, Student/Professional Friday Lunch, and Friday night banquet. **The deadline for early registration is December 31, 2016!!!! Please print legibly, especially e-mail addresses!**

Name	Date	
Street Address		
City, State, Zip Code	Organization	
Phone	Email Address	
.MEETING REGISTRATION:	<i>Cost/Person</i>	<i>Total Cost</i>
Regular Member Registration – Received by 12-31-16	\$102	
Received after 12-31-16	\$117	
Student Member Registration – Received by 12-31-16	\$50	
Received after 12-31-16	\$60	
Extra Friday Night Banquet Ticket For Guests Quantity: _____	\$35	
Donations (<i>optional</i>) to Texas Chapter AFS	-----	
TOTAL REGISTRATION COST (<i>make checks payable to TCAFS; no cash!!!</i>)		\$ _____

ADDITIONAL MEETING SIGN-UP INFO: *Free for all registrants - please indicate if you plan to participate.*

Willingness to serve as a presentation judge at meeting (TCAFS Professional Members only, students are not eligible).	Yes <input type="checkbox"/>
	No <input type="checkbox"/>
<u>Thursday Continuing Education Workshop:</u>	
1. Remote Sensing in Habitat & Fisheries Assessments Presenter: Emma Clarkson (TPWD Coastal Fisheries)	Yes <input type="checkbox"/> No <input type="checkbox"/>
2. Otolith Microchemistry 101: An Introduction for Fisheries Scientists Presenter: Dr. Benjamin Walther and Dr. Matthew Altenritter (TAMU-Corpus Christi)	Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>Friday Student/Mentor Lunch:</u> Pair up with someone with interest in or experience with governmental agency, academia, private consulting, etc. (select your role or leave blank if not interested)	Student <input type="checkbox"/> Mentor <input type="checkbox"/>
<u>Saturday TCAFS Business Meetings:</u> TCAFS business meeting will occur following the technical sessions Saturday morning. Please attend for more information on committees to serve on, chapter business and any potential voting that may be conducted.	

SEND COMPLETED REGISTRATION FORM TO MICHAEL HOMER:

- **One (1) form per person.**
- **Please make checks payable to TCAFS; DO NOT SEND CASH!!!**

____ To pay by Credit Card (PayPal), check here and send completed registration form to Michael Homer. Form may also be scanned and sent via email. (A PayPal invoice will be sent to email address provided above with instructions on how to pay using your credit card).

Michael Homer Jr.
5325 North 3rd Street
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