

Pacific Northwest Diver

PUBLICATION OF THE PACIFIC NORTHWEST UNDERWATER PHOTOGRAPHIC SOCIETY
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Pacific Northwest Diver

BI-MONTHLY MAGAZINE & WEB SITE PROMOTING UNDERWATER PHOTOGRAPHY, EDUCATION, & TRAVEL IN THE PACIFIC NORTHWEST | MAY, 2012

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Pacific Northwest Diver: In This Issue

Welcome to Spring in the Pacific Northwest and the May issue of Pacific Northwest Diver! This edition features divers, photographers, and videographers from Hornby Island, to Vancouver, to Anacortes, Redmond, and Portland. There is also an initial look at Adobe's Lightroom 4, Photoshop CS6, and Creative Cloud. Samsung has also brought waterproof SD and mini-SD storage units to market. In the News Corner there is preliminary information about Underwater Sports Divers' Fair photo contest, an interesting look at the Fukushima ocean radiation plume, and underwater workshops. And from the archives, the first underwater color photo and amazing way light was provided.

In this Issue: Hornby Island to Portland



To Subscribe: PNWUPS Free Membership



Pacific Northwest Diver is a publication of the Pacific Northwest Underwater Photographic Society (PNWUPS).

In order to subscribe to this e-publication, please complete the [Subscribe fields on the PNWUPS home page](#). Membership is free, and e-mail addresses are not shared with other groups or businesses. We need an accurate count of subscribers to assist with sponsorships and travel.

We are all over-loaded with e-mail, tweets, etc, so communication from Pacific Northwest Diver and PNWUPS will be limited to one or two e-mails per month, at most.

If you are interested in trips with other underwater photographers and videographers, please check out the Travel Section on page 16. In 2012 we will be photographing dolphins, sharks, and caverns in the Bahamas; whale sharks, sea lions, and hammerheads in La Paz; plus Virginia and Andy Lamb are leading a group on Nautilus Swell in October.

If you have any questions about subscribing, please contact publisher [Dan Clements](#).

From the Archives: First Underwater Color Photograph: 1917



Underwater color photography began with this shot of a hogfish, photographed off the Florida Keys in the Gulf of Mexico by Dr. William Longley in 1917.

Equipped with cameras encased in waterproof housing and pounds of highly explosive magnesium flash powder for underwater illumination, the pair pioneered underwater photography.

Longly used a 4 x 5 camera in a watertight housing fitted with controls for all the adjustments needed. They were published ten years later along with those of Charles Martin, in January 1927 in National Geographic Magazine under the title "The first autochromes from the ocean bottom".



What was unique about their "flash" was that it was placed on the surface, ignited, and lit up the water below. The hogfish photo was taken at a depth of about fifteen feet.

Lighting and strobes have certainly evolved. Contrast the size and danger of this approach as opposed to charging a one of the new compact Light in Motion lights!

Pacific Northwest Diver: Featuring Jens Tröger

No, no Jens. That's not what Marc meant by watch out!

Marc's "dive nerd" friends are Marc, Bernie, and Tom (see March, 2012 issue).



[Jens Tröger](#)

Jens was Scuba certified in 1999 in an ice covered flooded quarry in East Germany, and things got only better from there!

After school in Australia he moved to the Northwest in 2005, and has lived and dived here ever since. Having traveled and dived all over the world, he still likes the often unspoiled and cold waters of the Northwest that are teeming with life.

Too often Jens takes his camera out and, together with equally obsessed dive nerds, travels the Northwest in pursuit of good dives and photographs. On occasion, Jens also works as a dive instructor.

He holds a PhD in computer science and is a senior engineer and technical lead with Intel.

Equipment

Jens started out with a point-and-shoot Sony Cyber-shot many years ago, but soon that didn't quite do it anymore. Then came a Canon G10, Fix housing, with two YS-110a strobes, but soon that didn't quite do it anymore.

Today, Jens shoots with a Canon 7D in a Nauticam housing and YS-120 strobes. For macro he uses a Canon 100mm lens with a SubSee 10x diopter, and for wide angle shots the Tokina 10-17mm lens.

Post processing is done in Camera Raw and Photoshop, but even the magic of Photoshop can't turn a mediocre shot into a good image, and so the main

work remains to take a good picture in the first place.

Shooting Macro & Super Macro

Here are Jens' thoughts on shooting macro and super-macro.

It takes several ingredients to compose a shot that I like which, most of the time, is a colorful and simple image. I can't really control all of these ingredients like visibility or finding an interesting subject with good negative space (background). But there are heaps of opportunities here in the Northwest to shoot macro, and after the initial excitement where I'd fire away at every critter I came across I soon realized that a good picture first takes a bit of luck, and then a lot of care.

And so, once I find something interesting of suitable size, I first spend a little time watching the critter in order to get a feel for what it's actually doing, where it's moving. I also observe it from different angles to figure out how to make a picture more interesting. This initial sniffing out also helps me to check on current conditions, ambient light, and the quality of suspended particles. Most of the time I'm looking for a simple background that doesn't distract with color or texture, so that I can either use the green water as a background, or rocks, kelp, sand.

The next thing is camera positioning. I often found that getting the camera in and close at the right angle can be tricky. Positioning the strobe(s) for the right lighting takes equal consideration, and sometimes, well, it just doesn't work if there's rock or corals in the way. When the camera is somewhat in place, and considering the Rule of Thirds, I try to shoot straight onto my critter, or even from below up to give it depth and to make it look more interesting in its own context. A shot from atop of a small critter often seems flat, with little depth.

To stabilize the camera I use one hand to rest the camera on, holding on to a rock or the bottom. The first shot is often more of a test shot, to fine-tune aperture and shutter speed, strobe positioning and strength, and maybe to change the angle. Now that my camera allows for it, I switch it to Servo Auto Focus so that I can track a moving critter or compensate for my own movements. This is especially handy for super-macro shots, where the depth-of-field is only a few millimeters and where the critter itself isn't much larger than that either.

I always focus on the eye, or the head section right between the oral tentacles of a nudibranch, as this is the most interesting part. Then, oh the excitement, I press the shutter!

If the critter is patient enough with me, then I experiment. I take different shots with different depths of field, and from different angles. It happened in the past that one image that I was happy with during a dive, looked rather boring on the big screen, but another that I had almost dismissed earlier, came out great. These are the opportunities when I can really learn and practice my gear, and can compose the image the way I like it.

That's the first but also most important part of getting a picture which may make it onto my wall eventually. The next thing is to "develop" the raw image data from the camera into the actual print. The general workflow is quite the similar every time, although I do spend a little time tweaking some details on occasion. Adobe's Camera Raw tool is my first choice to crop and straighten the image, adjust the white balance, and to maybe level out some exposure dissonances. At this point I don't saturate or sharpen the image yet, but instead pull it into Photoshop.

First thing there is to remove some of the distracting backscatter; however, if there's too much of it, then the picture just won't do it. After this initial clean-up, I continue working in LAB mode instead of RGB, because in LAB I can separate color from lighting information. Sharpening is quite essential in image processing workflow, and by sharpening only the lighting channel in LAB mode I avoid color saturations like they may happen in RGB sharpening. A little more contrast, a little more color, and then that's all there's really to it! Personally, if I find myself spending too much time tweaking an image for too long, then it may just be time to abandon that image and shoot again in better conditions.

In the end though, with all this effort and money spent on gear, tinkering with settings, noodling through software, I'm having heaps of fun with all of this. And that is, I think, the most important ingredient of all.

Thanks for sharing your work with us!

Web: <http://savage.light-speed.de/>
e-Mail: jens.troeger@light-speed.de

Pacific Northwest Diver: Jens Tröger, continued



Scaly Head Sculpin
Canon G10, 1/400, f/4.5, ISO 100, 25mm,

Pacific Northwest Diver: Jens Tröger, continued



Opalescent Nudibranch
Canon G10, 1/320, f/4, ISO 400, 18mm

Pacific Northwest Diver: Jens Tröger, continued



Decorator Crab
Canon 7D, 1/125, f/13, ISO 200, 100mm

Pacific Northwest Diver: News Corner

[Divers' Fair: July 27-29](#)



[Divers' Fair Photo Contest](#)

[Underwater Sports](#) in Seattle will be hosting the 34th annual Divers' Fair on July 27, 28, and 29. As part of this event there is an underwater photo contest, so get those prints ready!

How to Enter

There is an entrance fee of \$6.00 for each photo submitted, and there are two categories with two prizes.

Photo Categories

The two contest categories are Tropical and Pacific Northwest. As mentioned above, there are first and second place prizes in both categories.

Last year's winners were Martin Heyn winning both tropical places, Dmitry Kholodkov first place Pacific Northwest photo, and Daniel Hershman second place in the Pacific Northwest category.

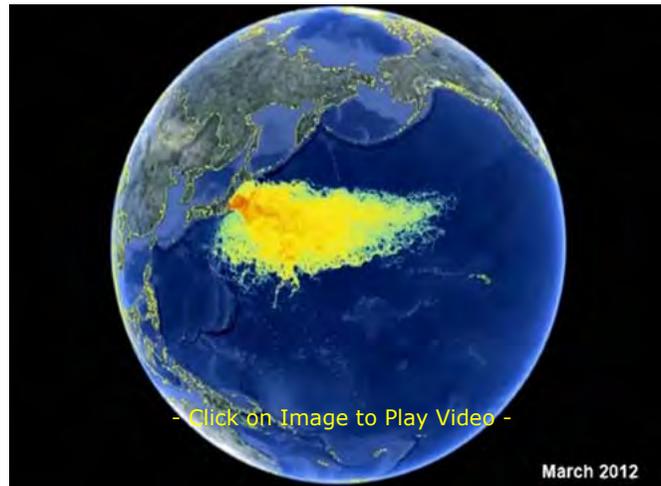
Summary of Rules

This is a "print" only contest. The other main requirement is that, to be eligible to win, photos must be framed and/or matted. Framing is preferred.

Additional information and prizes will be posted on [Underwater Sports Divers' Fair](#) web page shortly. If you have questions, feel free to contact the staff at Underwater Sports at 206.362.3310, or by e-mail at uws@underwatersports.com.

Good Luck!

[Fukushima Ocean Radiation Plume](#)



[ASR](#), a global coastal and marine consulting firm, has developed a model of radiation dispersal from the Fukushima nuclear plants that were heavily damaged in March, 2011.

The model uses a Lagrangian particles dispersal method to track where free floating material (fish larvae, algae, phytoplankton, zooplankton...) present in the sea water near the damaged Fukushima Daiichi nuclear power station plant could have gone since the earthquake and Tsunami on March 11th.

It is also interesting to note that Fukushima continues to leak radioactive contaminants into the Pacific. The ASR model assumes that a part of the passive biomass could have been contaminated in the area, they are trying to track where the radionuclides are spreading as it climbs up the food chain.

This past August the Canadian Food Inspection Agency announced [it had begun checking sockeye salmon for any signs of radiation](#), and a few days ago the Washington State Department of Fish and Wildlife announced that [they had begun testing salmon and clams for radiation](#).

The major concern to those of us in the Pacific Northwest is the health threat posed by cesium-137, which has a half-life of 30 years. Cesium-137 still contaminated land around the site of the 1986 Chernobyl nuclear disaster. Cesium-137 mixes easily with water and is chemically similar to potassium. It mimics how potassium is metabolized, and can enter through many foods.

[Underwater Photo/Video Workshops](#)

Looking to improve your underwater photography or videography? We have tried to list some of the top workshops taught by some of the top underwater photographers.



Stephen Frink
[Waterhouse Tours](#)

6-9/6-16 Digital Master, Key Largo
7-7/7-14 Digital Master, Bonaire
7-14/7-21 Digital Master, Bonaire

Instructors also include Photoshop guru Eddie Tapp and DSLR video expert Frazier Nivens.

Several of us have taken Stephen's workshops, and they were outstanding.



Dr Alex Mustard
amustard.com

6-16/6-23 Underwater Workshop
Red Sea, Egypt on MY Whirlwind
6-23/6-30 Underwater Workshop
Red Sea, Egypt on MY Whirlwind

Local members have taken Alex's Digital Madness class and found it excellent. Less emphasis on post processing and more on shooting.



Berkley White & Others
[Backscatter](#)

6-16/6-23 Digital Shootout,
Little Cayman
9-17/9-17 Backscatter Wakatobi
Lembeh Resort, Indonesia

Backscatter runs dozens of training events all over the globe each year. Check their website for details on the program and instructors for each event. Don't let "Mad Scientist" Berkley frighten you!

If you would like a review of any of these workshops, please contact [Jim Boon](#) or [Dan Clements](#). These workshops are outstanding ways of improving your photo, video, and post-processing skills!

Pacific Northwest Diver: Operator Corner- Hornby Island Diving

[Hornby Island Diving](#) is celebrating its 40th birthday this year! Founded by Bob and Ann Zielinski in 1972, his son and daughter-in-law Rob and Amanda are the current owners. Hornby Island is located about an hour's drive, and two short ferry rides, north of Nanaimo. It is reached by driving to Buckley Bay, taking a ten minute ferry ride to Denmann Island, followed by another short ferry ride to Hornby Island. Beautiful setting, quality dive operation!



- Hornby Island Diving

Hornby Island Diving is a family run business that has been in operation for forty years. It was started by Robert (Bob) Zielinski, a dedicated and experienced diver who extensively explored the British Columbia coast with his wife Ann, before settling on Hornby in 1972.

Although equipment and amenities weren't as comfortable as they are today, diving was growing in popularity in BC, and people were looking for a place to dive and relax for a few days. Hornby Island Diving is one of the original SCUBA charter operations on the BC coast. Bob passed on the business in 1996. It is now operated by his son, Rob and Rob's wife Amanda.

Over the years Hornby Island Diving has provided guiding and expertise to various projects such as television documentaries, books, magazines and research.

The Zielinski family has long been concerned with marine conservation, and their efforts contributed to the designation of the marine component of Helliwell Provincial Park. This area is closed to the taking of marine life by divers, and is currently under consideration for further protection, due to its significant populations of bottom fish and invertebrates.

Rob and Amanda Zielinski are the owners and operators of Hornby Island Diving. They are full-time residents of Hornby Island, as well as avid divers. They look forward to introducing you to their "back yard."

The dive boat is excellent for photographers and divers: a welded aluminum hull and superstructure, 35' length, with a 10'6" beam. Forward cab and covered area are for protection from the elements.

The tank rack accommodates any size tank, twin tanks or rebreathers. There is a swinging door and stable ladder placed forward for easy entries and exits, away from motors, along with a grab rail at water level.

And the subject matter for photographers? November to February - great visibility, sea lions; March - herring spawn, an incredible wildlife event; April/May - wonderful spring diving with baby jellies, nudibranchs, crabs, fish and more; May to September - sixgill sharks; and September/October - best visibility, a great time for wall dives.



- Rob & Amanda Zielinski

Web: <http://www.hornbyislanddiving.com/>
e-Mail: info@hornbyislanddiving.com
Phone: 250.335.2807



Dining Area



View Up-Stairs

Pacific Northwest Diver Operator/Resort Corner, continued



- Rob with Giant Pacific Octopus

Pacific Northwest Diver Operator/Resort Corner, continued

World of Color and Life on Hornby Island!



- Cavorting Sea Lions



- Northern Abalone



- Swimming Anemone



- Painted Greenling

Pacific Northwest Diver: British Columbia



[Roy Mulder](#)

Roy has been diving for 37 years, alongside a lifetime of photography and video. Additionally, Roy has sat on boards of several not-for-profit organizations. He currently owns [UWVIDEO1](#), which produces high quality video and photos for a variety of companies and not-for-profit organizations. He is also currently President of Marine Life Sanctuaries Society of BC.

He was given his first camera at the ripe age of 6, printed his first photo at 10, and became one of the youngest members of the London Camera Club at 13. His fascination and interest in nature helped mold his views about our place on the planet. Roy recognized early on that the ability to create visual imagery would help "grab" lay interest in a subject.

Although Roy is an accomplished still photographer, he believes that video is a more effective tool in creating retention on a subject or product. His early days learning to be an Audio Visual Technician helped prepare him for the videos and images he now produces, even though equipment and processing have advanced dramatically.

He is a past Board Chair of the TD/Canada Trust Friends of the Environment Foundation Vancouver Chapter.

Web: <http://uwvideo1.webs.com/>
e-Mail: rsmulder@shaw.ca



This promotional video for Oceanic Nurseries is a fine example of Roy's video work, and seeking collaboration to help resolve our depleted fisheries issue.



The Canadian Coast Guard ship Ready lies on the bottom in Brittania. Colin Parkinson gives a narration of life aboard in years gone by.

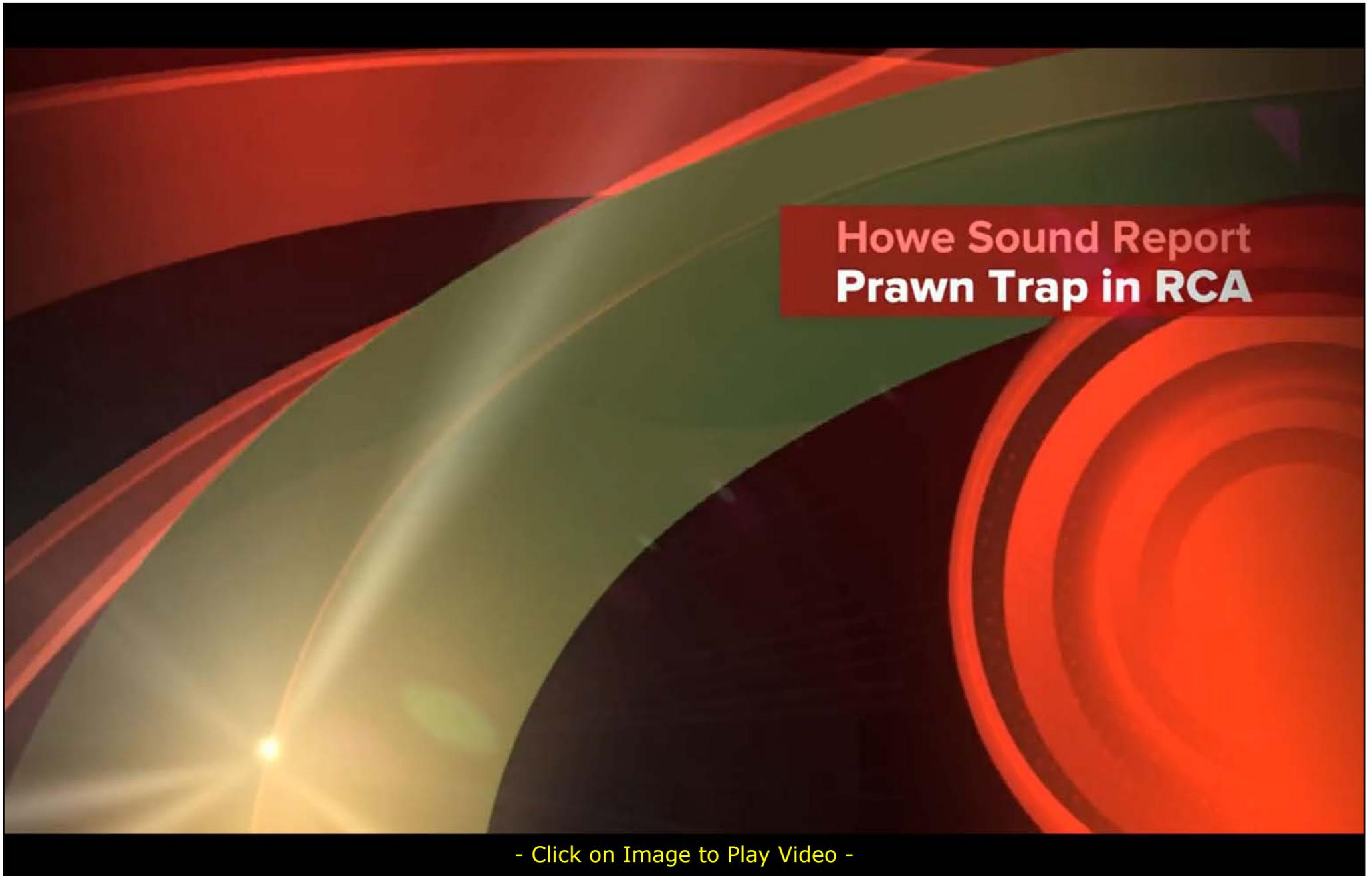


River otter Roy was filming (photo upper left) as it was being taught to swim!



Sea lion doing its best imitation of an Antarctic leopard seal a la Paul Nicklin.

Pacific Northwest Diver: British Columbia, continued



This video is the Howe Sound Report for Sunday November 27, 2011. Prawning is legal in rockfish conservation areas and become killing machines when they come loose from their buoy lines. The video shows two traps being recovered. This is why Marine Life Sanctuaries Society is promoting voluntary full no-take marine sanctuaries in all Rockfish Conservation Areas.

Pacific Northwest Diver: Washington



[Dennis Howie](#)

Welcome to the world of the purist! Dennis and his wife Tracy are free divers. Yes, you've got it: to take shots Dennis holds his breath, follows subjects, then shoots.

Everytime I see him in the water I am amazed. SCUBA divers are referred to as "Bubble Blowers." He has been free diving since childhood, and taking underwater photos for five years.

His gear consists of a Nikon D-90, Tokina 10-17, and Nikon 12-24. His housing is an Aquatica fitted for another camera, so he has to present his settings before entering the water.

Usually settings are shutter priority, with the Tokina out to 17 MM, and the Nikon lens to 24 MM.

Since Dennis is also not using strobes, he has spent much time working with ambient light. On dark days and at depth he will use his dive light to help light up a subject.

He is frequently found at Keystone, which is a short trip from his Anacortes home. For post-processing Dennis uses a Windows based platform with Adobe Lightroom.

Web: [Portfolio on Facebook](#)
e-Mail: tracyanddennishowie@yahoo.com



- Sunlight Reflecting off Water and Pilings, 24 MM, 1/80th, f 13, ISO 200



- Sea Star & Mertridium on Piling, 24 MM, 1/80th, f 4.5, ISO 200



- Ling Cod Hiding in the Kelp, 24 MM, 1/80th, f 4, ISO 450

Pacific Northwest Diver: Oregon



[Laura Tesler](#)

Laura has been taking photographs since she was 10. She is a fisheries biologist with the Oregon Department of Fish and Wildlife. She started diving in 2006.

Her first camera was a Nikon FG-20 and then a Pentax K-1000 (which she still has). She says it was good to shoot with film, because she was forced to learn manual settings! The concepts of aperture, shutter speed, and exposure became much clearer.

After about 60 dives, Laura decided her buoyancy was sufficiently advanced to try and take pictures. This was after years of looking at Flip Nicklin and David Doubillet photographs, Stan Waterman videos, and observing the techniques of others with whom she dived.

Her initial underwater setup: a Canon 710IS with a Canon waterproof case. The whole package cost about \$350. She really liked the "anti-shake" features and the compact size: she could back roll off boats holding her camera. For a first camera Laura says it was a great rig.

In photography classes at the Oregon Coast Aquarium it is possible to use loaner cameras and it was here she was able to use a DSLR for the first time.

Her appetite was whetted for more, especially with wide angle lenses. She started to save her pennies.

In October 2011 Laura decided to buy herself a nice birthday present, and for cost reasons started researching the new 3/4 mirrorless systems, which are also billed as a "step above the point and shoot" and the entry level DSLR camera lineup.

She liked that these systems could accept interchangeable lenses and ports: you were not stuck with the same lens like a Canon G10 or G11. She researched the Olympus brand which was the first 3/4 mirrorless out on the market outside of Leica.

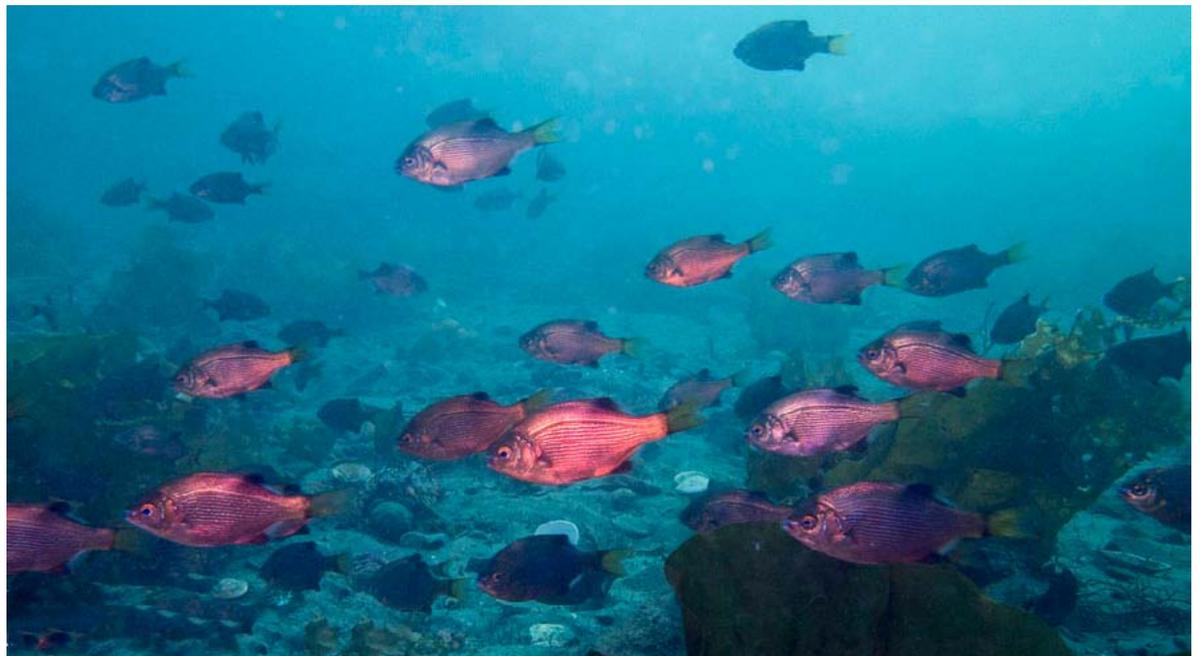
She purchased an Olympus PEN PL-2 with standard 14- 42 mm lens for \$350 and an Olympus housing for \$599. She liked how easy the buttons were to operate, even with a thick dry glove system. Add to this a previously purchased ultralight tray, a wet mount Dyron 7x diopter for macro, and Sea and Sea YS-01's strobes, and she was ready to go! So how does Laura like her present camera, housing, and strobes?

"To put it simply, I love my new system. I participate in REEF fish surveys and I travelled to Cozumel with my new system in January 2012 and you can see the results on my [website](#).

I also took the new system up to Hood Canal and took some shots there. I prefer to do a lot of what I call "lie and wait" photos. Luckily I dive with people who are patient as I will wait 10 minutes to get a good shot of shy fish! I really like taking macro photos and pictures of fish behaviors.

My next purchase will be a fisheye wide angle lens and the port for it, but that's another big chunk of cash so it might be a while."

Web: <http://bastetphotos.smugmug.com/>
e-Mail: tesler2291@comcast.net



Striped Sea Perch, 17 mm, 1/60th, f 9.5, ISO 200



Black Eyed Goby: 14 mm, 1/125th, f 3.5, ISO 200



Shrimp Still Life: 17 mm, 1/60th, f 9.5, ISO 200

Pacific Northwest Diver Travel Corner



La Paz Whale Sharks Up-close & Personal

La Paz's resident whale sharks are beautiful, and a few minutes from the hotel. Here is Scott Geitler up close and personal with a subject.



Sea Lion Pup Playing with a Fin at Los Islotes

Young sea lions approached divers to frolick and play.

2012 TRAVEL

After a great trip to Catalina and Monterey, there are three more 2012 outings of interest: Bahamas in June, La Paz in October, and Nautilus Swell in October. Here are the details. If any of these trips are of interest to you, please contact [Dan Clements](#).

Bahamas: May 31 - June 9

For the fourth year in a row we will be heading to Grand Bahama Island and diving with UNEXSO. The trip includes two dolphin dives, a shark dive, a cavern dive, and diving the coral and wrecks off Lucaya. You do not need to be cave certified to dive Ben's Cavern: the exit point is visible at all times.

This past year pricing was approximately \$1,560 per person, double occupancy, and it is anticipated this year's cost will be similar. Included are all dives, room, breakfast, and airport transfer. Not included is airfare, lunch, and dinner.

La Paz: October

La Paz has resident whale sharks from September through March, and we saw 3-10 each time we went out to photograph them. Sea lions at Los Islotes, scalloped hammerheads, and many other photo subjects are present.

Dates are October 27 to November 3. Cost is \$1,050, excluding air fare. [Posada Luna Sol](#) will provide accommodations, and diving will be with [Buceo Carey](#), an SSI operator located in the marina just a short walk from the hotel. This set-up will enable us to stay in town. La Paz is a nice setting with great restaurants. There is one opening.

Nautilus Swell: October

Virginia and Andy Lamb have put together a trip from October 14-21 on the luxurious [Nautilus Swell](#). Prices range from \$2,000 per person, double occupancy, to \$2,450 for single occupancy or suites.

There are a limited number of spaces, so if you are interested, either [e-mail Andy](#), or call him direct at 250.246.9770.



Nautilus Swell at anchor.

This is an outstanding opportunity photograph and travel with well known naturalist and withor Andy Lamb.



Nautilus Swell Bunk

Nautilus Swell is not your average live-aboard. Great crew and food!

Pacific Northwest Diver Technical Corner

New Adobe Lightroom, Photoshop CS6, & Creative Cloud Release



After a long spell without new releases, the folks at Adobe are working over-time. March 11 saw the roll-out of Lightroom 4, and on May 7 Photoshop CS6, Creative Suite CS6, and the Creative Cloud went live. So how do these new products compare with their predecessors?

Lightroom

Of the new releases, Lightroom is receiving the most "You need to up-grade" comments.

There have been major modifications to the development module, and several reviewers have stated that photos flat-out look better. There is a new Books Module, and the video application has seen a lot of work. You can actually preview videos in this version!

The best news is that the up-grade cost is only \$79. MSRP for a new version is \$149.

Photoshop CS6

The National Association of Photoshop Professionals was quite high on the improvements to Photoshop. After playing a bit with the new version, there is only one change that seems like a "must have": changes to Content Aware Fill.

In the CS5 version where Content Aware Fill was introduced this great feature sometimes produces some rather odd results. In CS6 there are Content Aware Move and Content Aware Extend commands. Instead of guessing what area Content Aware will try and match, you can select the area. Pretty cool!

Other major changes include a revised user interface (except for Camera RAW) that is much more like Lightroom. Auto Save times can be manually automatically set, and background saves are also much improved. Video functions have been made much easier and simplified. NAAP feels that there are speed and performance improvements, but this was not obvious during the type of underwater photo edits most of us use. Looking at Camera RAW, it again functions more and more like Lightroom. Sliders have changed with Brightness being eliminated with Highlight and Shadow sliders taking its place.

If you currently own Photoshop CS5, the up-grade cost is \$199. MSRP for a non-up-grade version is \$699.

Creative Cloud

The Creative Cloud is another just released group of applications that is receiving much media attention. For \$49 per month you have access to the full Creative Suite group of products. Application programs reside in the "Cloud," or more accurately on server farm storage disks. Any work you do can be up-dated, accessed, and synched on all your devices. If you have high speed Internet access, which many of us do not have when shooting in the field or overseas.

In a sense it is like renting, rather than purchasing programs. For those of us who already own Creative Suite CS5, the Creative Cloud does not seem like a good purchase. Upgrading to CS6 costs \$375, which is under eight months of Creative Cloud rental.

Adobe Support Editorial Comment

While new releases are great, it would really be nice if Adobe would work on up-grading their currently dismal customer support.

New Samsung Waterproof SD Cards



Have you ever destroyed an SD card by dripping salt water on it because you just had to take a look at how the photos/videos from the last dive looked? Then read on.

In a recent press release Samsung announced it is now shipping a new line of advanced SD and microSD cards that are ideal for digital imaging and mobile devices. The seven new models of SD and microSD cards are now available as part of either the High Speed Series or the Plus Extreme Speed Series, both of which deliver up to 24MB/sec read speeds on cards with a capacity of 4GB or higher.

Styled with a brushed metal design, Samsung's new line of SD and microSD cards are built with "Best-in-Class" performance. Able to meet the growing demand for high speed and high capacity memory in modern devices, the new cards are ideal for today's digital cameras, camcorders, smartphones and tablets. With (up to) 24MB/sec OR (max) read speeds, users can transfer 1GB of images in as little as 42 seconds.

In order to ensure their reliability, Samsung has designed both lines of memory products to be waterproof, shockproof, and magnet proof, allowing them to withstand some of the harshest conditions. All models are guaranteed to survive up to 24 hours in water, withstand the force of a 1.6 ton vehicle (3,200 lbs), and resist up to 10,000 gauss (slightly less than the power of a medical imaging magnet).

High Speed Series – Specifications

SD Card	MODEL NAME	CAPACITY*	SPEED CLASS	READ SPEED	WRITE SPEED	MSRP
	MB-SS2GA	2 GB	--	Max 15MB/s	Max 7MB/s	
						\$9.99
	MB-SS4GA	4 GB	Class 4	Max 24MB/s	Max 7MB/s	\$14.99
	MB-SS8GA	8 GB	Class 6	Max 24MB/s	Max 13MB/s	\$24.99
	MB-SSAGA	16 GB	Class 6	Max 24MB/s	Max 13MB/s	\$44.99
	MB-SSBGA	32 GB	Class 10	Max 24MB/s	Max 13MB/s	\$89.99

Plus Extreme Speed Series – Specifications

SD Card	MODEL NAME	CAPACITY*	SPEED CLASS	READ SPEED	WRITE SPEED	MSRP
	MB-SP8GA	8 GB	Class 10	Max 24MB/s	Max 21MB/s	\$29.99
	MB-SPAGA	16 GB	Class 10	Max 24MB/s	Max 21MB/s	\$54.99

Pacific Northwest Diver: Our Team

The Pacific Northwest is a large, diverse region with diverse interests in underwater photography and videography. In order to make it easier for you to submit information about photographers, dive clubs, and operators/resorts in your area we have key contacts for British Columbia, Washington, and Oregon. Since we are all volunteering our time and efforts, we also hope to spread the work-load so we will all have ample time for diving and photography!

Below are our contacts, please either get in touch with one of the regional contacts listed below, or contact editor [Dan Clements](#) directly.

British Columbia: Marli Wakeling



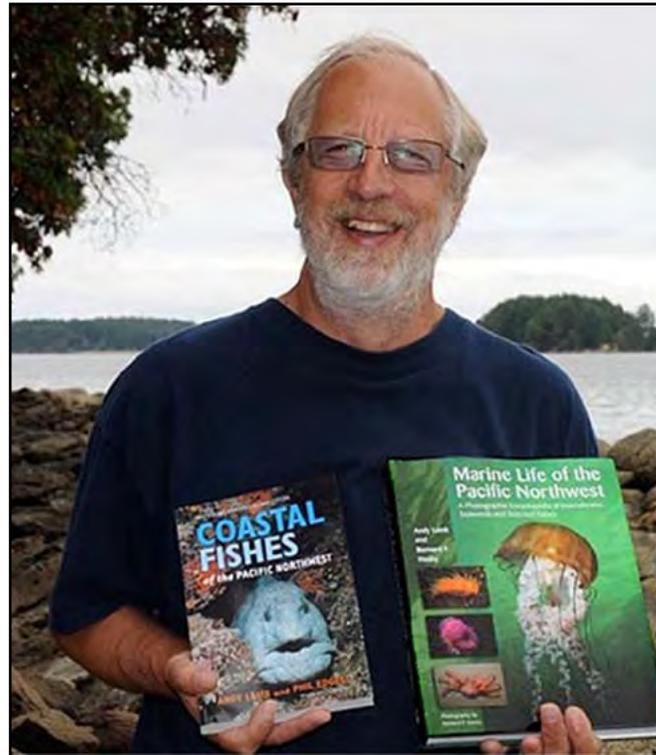
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